

USELSH DADUAL ENGLISH IOS Version 1.1 aJXCe

Important safety instructions

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions
- Do not use this apparatus near water.
- Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or grounding-type plug. A
 polarized plug has two blades with one wider than the other. A grounding
 type plug has two blades and a third grounding prong. The wide blade or the
 third prong are provided for your safety. If the provided plug does not fit into
 your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- WARNING This apparatus shall be connected to a mains socket outlet with a protective earthing connection.
- Turning off the standby switch does not completely isolate this product from the power line so remove the plug from the socket if not using it for extended periods of time, or before cleaning. Please ensure that the mains plug or appliance coupler remains readily accessible.
- Mains powered apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases or cups, shall be placed on the apparatus.
- Install this product near the wall socket and keep the power plug easily accessible.
- Do not install this equipment on the far position from wall outlet and/or convenience receptacle.



WARNING – Do not ingest battery, chemical burn hazard. This product contains a coin/button cell battery.

If the coin/button cell battery is swallowed it can cause severe internal burns in just 2 hours and can lead to death.

Keep new and used batteries away from children. If the battery compartment does not close securely, stop using the product and keep it away from children.

If you think the battery may have been swallowed or placed inside any part of the body seek immediate medical attention.

- WARNING Date/time Lithium button cell battery inside. Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type. The internal date/time Lithium button cell battery is user replaceable.
- Do not expose batteries to excessive heat, such as direct sunshine, fire or the like.
- Dispose of used batteries according to the battery manufacturer's instructions.
- Do not install this equipment in a confined space such as a box for the conveyance or similar unit.

WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.





The lightning flash with arrowhead symbol within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

 $\rm CAUTION$ - The Pa3XLe for use only with KORG ST-SV1 BK stand. Use with other stands is capable of resulting in instability causing possible injury.

ATTENTION – Le Pa3XLe est conçu pour être utilisé avec le support KORG ST-SV1 BK. L'utilisation avec d'autres supports peut causer une déstabilisation du Pa3XLe et provoquer des blessures.

THE FCC REGULATION WARNING (USA)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- · Consult the dealer or an experienced radio/TV technician for help.

Unauthorized changes or modification to this system can void the user's authority to operate this equipment.

CE MARK FOR EUROPEAN HARMONIZED STANDARDS

CE mark which is attached to our company's products of AC mains operated apparatus until December 31, 1996 means it conforms to EMC Directive (89/336/ EEC) and CE mark Directive (93/68/EEC).

And, CE mark which is attached after January 1, 1997 means it conforms to EMC Directive (89/336/EEC), CE mark Directive (93/68/EEC) and Low Voltage Directive (73/23/EEC).

Also, CE mark which is attached to our company's products of Battery operated apparatus means it conforms to EMC Directive (89/336/EEC) and CE mark Directive (93/68/EEC).

IMPORTANT NOTICE TO CONSUMERS

This product has been manufactured according to strict specifications and voltage requirements that are applicable in the country in which it is intended that this product should be used. If you have purchased this product via the internet, through mail order, and/or via a telephone sale, you must verify that this product is intended to be used in the country in which you reside.

WARNING: Use of this product in any country other than that for which it is intended could be dangerous and could invalidate the manufacturer's or distributor's warranty.

Please also retain your receipt as proof of purchase otherwise your product may be disqualified from the manufacturer's or distributor's warranty.



NOTICE REGARDING DISPOSAL (EU)

If this symbol is shown on the product, manual, battery, or package, you must dispose of it in the correct manner to avoid harm to human health or damage to the environment. Contact your local administrative body for details on the correct disposal method. If the battery contains heavy metals in excess of the regulated amount, a chemical symbol is displayed below the symbol on the battery or battery package.

PERCHLORATE (CALIFORNIA, USA)

Perchlorate Material – special handling may apply. See www.dtsc.ca.gov/hazardouswaste/perchlorate.

Automatic Power-Off

To avoid wasting power, Pa3XLe will by default automatically turns to standby after two hours of non-active use (playing, pressing buttons or using the touch-screen). Please save your data (Performances, Styles, Songs, and so on) before taking a prolonged pause.

Data handling

Data in memory may sometimes be lost due to incorrect user action. Be sure to save important data to the internal memory or to an external USB device. Korg will not be responsible for damages caused by data loss.

Cleaning

If the exterior becomes dirty, wipe it with a clean, dry cloth. Do not use liquid cleaners such as benzene or thinner, or cleaning compounds or flammable polishes.

Use a soft cotton cloth to clean the display. Some materials, such as paper towels, could cause scratches and damage it. Computer wipes are also suggested, provided they are specifically designed for LCD screens.

Do not spray any liquids on the LCD screen directly. Always apply the solution to your cloth first, then clean the screen.

Side panels

This instrument features side panels made from real wood, and is hand treated and hand machined to the final high quality finish that you now see. Unlike the synthetic and industrially shaped material you can find in many products, where the grain appears unnaturally consistent, the wood used in the surface of these parts may appear uneven and possibly disfigured. However, please note that this is a consequence of wood being natural instead of a synthetic, industrially treated material.

Also, grain and color of these parts may be uneven, due to the natural and unequal absorbing of pigments. Real wood is a material that naturally changes over time, making this instrument even more precious and unique as the years go by.

Please clean the side panels only by wiping with clean, dry cloth. Do not use liquid cleaners such as benzene or thinner, or cleaning compounds or flammable polishes.

Example screens

Some pages of the manuals show LCD screens along with an explanation of functions and operations. All sound names, parameter names, and values are merely examples and may not always match the actual display you are working on.

Disclaimer

The information contained in this manual have been carefully revised and checked through. Due to our constant efforts to improve our products, the specifications might differ to those in the manual. Korg is not responsible for any difference found between the specifications and the contents of the instruction manual – the specifications being subject to change without prior notice.

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Open source notice

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Liability

Korg products are manufactured under strict specifications and voltages required by each country. These products are warranted by the Korg distributor only in each country. Any Korg product not sold with a warranty card or carrying a serial number disqualifies the product sold from the manufacturer's/distributor's warranty and liability. This requirement is for your own protection and safety.

Service and user's assistance

For service, please contact your nearest Authorized Korg Service Center. For more information on Korg products, and to find software and accessories for your keyboard, please contact your local Authorized Korg distributor. For up-to-date information, please point your web browser to www.korg.com.

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ntroduction

Welcome!

Welcome to the world of Korg Pa3XLe Professional Arranger! Pa3XLe is one the most powerful arranger available today, both for professional and home entertainment use.

Here are some of the features of your new instrument:

Physical Features and User Experience

- 76 semi-weighted keys with velocity and aftertouch.
- Aluminum cabinet with elegant design.
- Wide 7" TFT graphic touch screen display. Professional TouchView[™] graphic interface for direct access to the on-screen controls and to the musical resources.
- High quality optional PaAS Amplification System with Easy Connection systems (no support, no cables, no power supply needed).
- RX (Real eXperience) Technology, the cutting edge engine that drives every aspect of the Pa3XLe from the synthesis to the display and how it all works together.
- Three assignable switches, an assignable knob, a joystick and an assignable pedal ensure total control for all the various levels of articulation of the sound.

Sounds and Effects

- Powerful sound generation system, for crystal-clear, realistic sounds.
- DNC (Defined Nuance Control) Sounds, more realistic and vivid than ever.
- 128 voices of polyphony.
- General MIDI Level 2 Sound-compatible. Enhanced Sound compatibility for GM Songs.
- More than 1,100 Sounds, including a Stereo Piano and more than 90 Drum Kits.
- 320 Performance locations, plus 4 Single Touch Settings (STS) for each Style and SongBook Entry, for fast setting of keyboard sounds and effects.
- Four Stereo Master FX, with 125 effect types, including a selection of fine guitar effects created using Korg's REMS[™] (Resonant structure and Electronic circuit Modeling System) technology, to deliver truly great sounding effects.
- Mastering Limiter and Final 4-band Parametric EQ
- Onboard sampling to create and edit new sounds and audio grooves. 192 MB of Sample memory for User PCM Samples.

Styles and Songs

- Over 400 Factory Styles with 4 Variations and 4 Fill In + Break, plus 12 Favorite and 3 User Style banks for unlimited storage of your custom Styles and settings.
- Style and Pad Record, including the enhanced "Guitar Mode 2" for even more realistic guitar parts.
- "Chord Sequencer" function to record on-the-fly any chord progression.
- XDS Double Player with X-Fader. Plays Standard MIDI Files and MP3 files.
- Full-featured 16-track sequencer. Quick Record function to record playing with the Styles.
- Lyrics, Score and Marker display. Multi-lingual extended character set. Enhanced compatibility with Lyrics in graphical format (+G) for Standard MIDI Files and MP3 files.
- MP3 recorder. MP3 player with Vocal Remover.
- Fully editable SongBook music database, for fast song retrieving.

Microphone and Vocal Effects

- High-quality microphone preamplifier, to connect a dynamic microphone.
- Sophisticated TC-Helicon Voice Processor, with dedicated professional effects, including a 3-voice harmonizer.

Other Features

- Search function, for instant retrieving of any musical resource or file.
- Operating System updates, to load new features and enhancements. Don't let your instrument get old!
- Generous internal memory, to store the greatest amount of data, including a slot for an (optional) microSD card.
- USB 2.0 High Speed Host port, for connecting external devices like hard disks, CD-ROM drives, USB memory sticks, etc.
- USB 2.0 High Speed Device port, to connect a personal computer to your Pa3XLe. This port can be used for file transfer or for MIDI connection (without the need of a dedicated MIDI interface for the personal computer).

What's in the box

After you buy your Pa3XLe, please check that all the following items are included in the package. If any of the following items is missing, please contact your Korg dealer immediately.

- Pa3XLe
- Music stand
- Power cable
- Quick Guide
- Accessory Disc (containing the Video manuals, additional manuals, an USB driver)

About this manual

This manual contains all the informations divided in four sections:

- An **Introduction**, containing an overview of the instrument and of basic operations.
- A Quick Guide, containing a series of practical guides.
- A **Reference Guide**, with each page and parameter described in detail.
- An **Appendix**, with a list of data and useful information for the advanced user.

In addition, in the DVD that comes with the instrument (as well as in our web site) you will find a multilingual **Video Manual**, showing how to use your Pa3XLe in easy steps.

Contacts

Your preferred Korg dealer not only delivers this keyboard, but also a whole bunch of hardware and software accessories, as well as service information. You should ask them for any help should you eventually need.

Our international web site is www.korg.com. Korg distributors around the world may have their own web page on the internet. A list of all Korg Distributors can be found in our dedicated web site (www.korg.co.jp/English/Distributors/).

Making a safety copy of your data

Making a safety copy

In case you like to customize your Musical Resources (Sounds, Performances and Styles), we suggest you use the Media > Utility > Backup Resources command to make frequent backup copies into compact archives.

Also, you can use the Media > Save All command to save files that you can separately reload one by one.

Restoring a safety copy

To restore a backup, use the Media > Utility > Restore Resources.

If you saved your data with the Media > Save All command, use the Media > Load operations to reload them.

Restoring the original factory data

In case you want to restore the original factory data, use the Media > Utility > Factory Restore command.

Warning: This operation will overwrite all the Factory, Local, Favorite and User data!

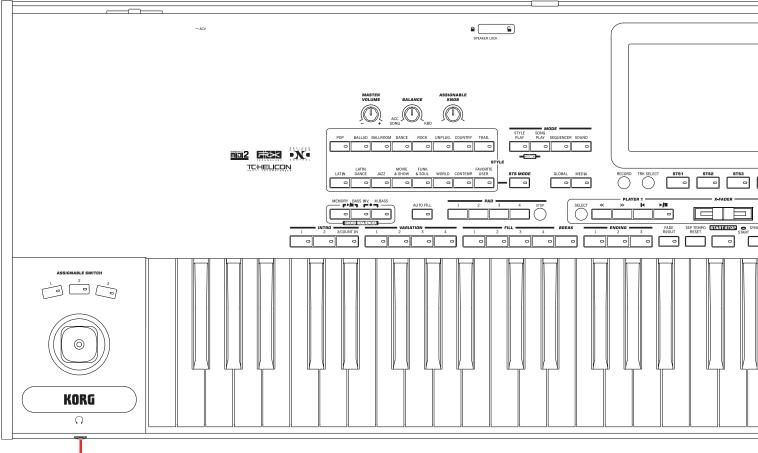
Loading the Operating System

Your Pa3XLe can be constantly updated as new versions of the operating system are released by Korg. You can download the operating system from our web site. Please, read the instructions supplied with the operating system on the site.

You can see which version of the operating systems is installed in your Pa3XLe by going to the Media > Utility page.

Warning: Do not install an OS other than the official OS supplied by Korg for the Pa3XLe. Trying to install an OS created for different models or downloaded from unofficial web sites may cause data loss and permanent damage to the instrument. Korg is not responsible for any damage caused by improper installation of the OS.

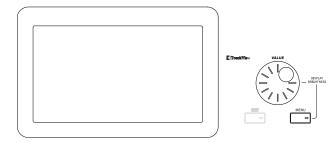
Overview



Phones

Front Panel

Display and Brightness Controls

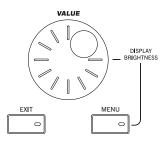


COLOR TOUCHVIEW[™] GRAPHICAL DISPLAY

Use this display to interact with the instrument. To adjust the display brightness, keep the MENU button pressed, and turn the VALUE DIAL counter-clockwise to make the display darker, or clockwise to make it brighter.

Data Entry and Navigation

The VALUE DIAL can be used to assign a different value to the parameter selected in the display, or to scroll a list of files in the Song Select, SongBook, Search and Media pages.



VALUE DIAL

Turn the dial clockwise to

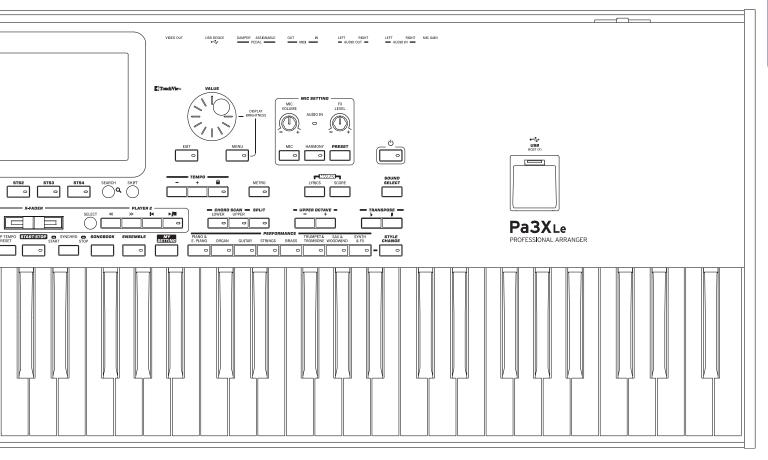
increase the value of the selected parameter. Turn it counterclockwise to decrease its value.

MENU When used while pressing the MENU button, this control always acts as a Display Brightness control.

EXIT

Use this button to perform various actions, leaving from the current status:

- Exit the Edit menu page, without selecting any item.
- Make the page menu disappear, without selecting any item.
- Return to the main page of the current operating mode.
- Exit the Global or Media edit environment, and return to the current page of the current operating mode.
- Exit from the SongBook mode.



- Exit from the Lyrics, Score and Marker pages.
- Exit from a Style, Pad, Performance or Sound Select window.

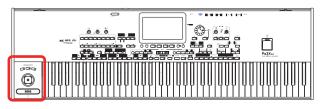
MENU

This button opens the edit menu page for the current operating mode. After opening an edit menu, you can jump to one of the edit sections by touching the corresponding button in the display.

Otherwise, press EXIT to return to the main page of the current operating mode, or the current page of the underlying operating mode.

Headphones and controllers

The left side of the front panel contains the manual physical controllers and the headphones connector.



ASSIGNABLE SWITCH

Freely assignable switches, that can be programmed in the Pad/ Assignable Switch > Switch page of the Style Play or Song Play mode.





JOYSTICK



This joystick triggers different functions, depending on the direction it is moved towards.

X (+/-)Move the joystick towards the left (-) to lower the pitch, or towards the right (+) to raise it. This effect is called the Pitch Bend.

Move the joystick forward to trigger Modulation

Y-

Y+

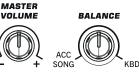
Move the joystick backward, to trigger the function assigned in Sound mode.

PHONES

Connect a pair of headphones to this output. You can use headphones with an impedance of 16-200 Ohms (50 Ohms suggested). Use a headphone splitter to connect more than one pair of headphones.

Volume Controls

Use these knobs to control the master volume, and to balance between the Keyboard and the Style or the Song.



MASTER VOLUME

This knob controls the overall volume of the instrument, both of the integrated speakers, the AUDIO OUT and the PHONES outputs. It also controls the volume of the AUDIO IN inputs in the final mix.

BALANCE

While in Style Play and Song Play mode, this knob usually balances the volume of the Keyboard (KBD) tracks against the Style (ACC, Accompaniment), Song and Pad tracks. This is a relative control, whose effective maximum value is determined by the MASTER VOLUME knob position.

When moved, a magnified version of a virtual slider appears in the display, for more accurate adjustment.

It can be programmed to work as the volume control for the Accompaniment/Song tracks only, leaving the Keyboard tracks unchanged (in the Controllers > Hand Controllers page of the Global mode).

Note: This does not work in the Sequencer and Sound modes.

Assignable Knob

ASSIGNABLE KNOB

Freely assignable knob, that can be programmed in the Global > Controllers > Hand Controllers page.



Mode Selection

Each of these buttons recalls one of the instrument's operating modes. When selected, each mode excludes all the others.

	M		
STYLE	SONG		
PLAY	PLAY	SEQUENCER	R SOUND
	0		
	10		

STYLE PLAY

Style Play mode, where you can play Styles (eight tracks of automatic accompaniments) and play up to four Keyboard tracks and four Pad tracks. In the main page, Keyboard tracks are shown on the right half of the display.

You can recall the main page by pressing EXIT from any of the Style Play edit pages. If you are in a different operating mode, press STYLE PLAY to recall the Style Play mode. If Keyboard tracks are not shown in the display, press the TRACK SELECT button to see them.

This operating mode is automatically selected when turning the instrument on. The "My Setting" Performance will be automatically selected.

SONG PLAY

Song Play mode, where you can play back Songs in Standard MIDI File (MID or KAR) or MP3 format. In addition to the Song tracks, you can play up to four Keyboard tracks and four

Pads along with the Song(s). In the main page, Keyboard tracks are shown in the right half of the display.

You can recall the main page of this mode by pressing EXIT from any of the Song Play edit pages. If you are in a different operating mode, press SONG PLAY to recall the Song Play mode. Use the TRACK SELECT button to cycle between the Keyboard and Song tracks.

SEQUENCER

Sequencer mode, where you can play, record or edit Songs (in Standard MIDI File format). The Backing Sequence (Quick Record) mode lets you record a new Song based on the Keyboard and Style tracks, and save it as a Standard MIDI File.

Note: While in this mode, you cannot play MP3 files.

SOUND

Sound mode, to play single Sounds on the keyboard, or edit them.

User Sounds may be based on User PCM Samples that are loaded into the dedicated Sample RAM memory.

Note: Pa3XLe cannot load compressed User PCM Samples from other Pa-Series models.

SHIFT While in any other operating mode, keep the SHIFT button pressed and press this button, to send the Sound assigned to the selected track to the Sound mode.



Press the STYLE PLAY and SONG PLAY buttons together to select the Demo mode. This mode lets you listen to some Demo Songs, to let you experience the sonic power of the Pa3XLe. To exit from this mode, press any of the MODE buttons.

Special Mode Buttons

These buttons are used to recall global settings and manage files.



GLOBAL

This button recalls the Global mode, where you can adjust various global settings. Most Global settings are automatically memorized as soon as you edit them. This mode overlaps any operating mode, that will still remain active in the background. Press EXIT to go back to the underlying operating mode.

MEDIA

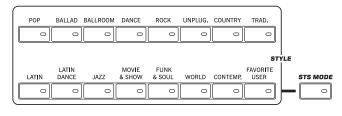
This button recalls the Media mode, where you can perform various operations on files and storage devices (Load, Save, Format, etc...). This mode overlaps any operating mode, that still remains active in the background. Press EXIT to go back to the underlying operating mode.

The internal memory contains an area where to save data ("DISK [KORG DISK]").

You can install an (optional) microSD card in the dedicated slot on the back of the instrument, and gain access to the SD unit ("SD [KORG SD]"). See for information on how to install a microSD card.

ASSIGNABLE

Here you can select a Style, and activate the automatic selection of the STSs.



STYLE buttons

Use these buttons to open the Style Select window and choose a Style. See "Style Select window" on page 104.

The FAVORITE/USER button gives access to twelve Favorite Style banks and three User Style banks. You can use User locations to temporarily load new Styles from an external device, or save newly created or edited Styles.

Favorite locations, too, can be used to load new Styles from an external device, or to save newly created or edited Styles, but in addition you can edit the names of these Style banks, so that you can create a custom set of Styles. See "The Favorite banks" on page 133.

Each button (Style banks) contains five pages, each with up to eight Styles. Repeatedly press a STYLE button to cycle between the available pages.

 \vec{w} By keeping one of these buttons pressed for about one second, the "Write Current Style Settings" dialog box will appear.

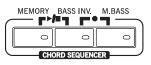
STS MODE

This button lets you cycle between the following functions.

- On When a Style is selected, STS 1 is also automatically selected. The Keyboard's sounds and effects will change, along with the Style's sounds and effects.
- Flashing Variation/STS Link function activated. This function makes each Variation recall the corresponding STS when selected. For example, select Variation 2, and STS 2 will be automatically recalled; select Variation 3, and STS 3 will be automatically recalled.
- Off When you select a Style, the Style's sounds and effects will change. The Keyboard's sounds and effects will not change.

Memory, Bass Inversion, Manual Bass, Chord Sequencer

These buttons let you decide what should remain in memory, and how to play the bass. In addition, they have the Chord Sequencer as a second function.



MEMORY

This button allows you to choose whether the Lower notes and/ or chord triggering the accompaniment will remain in memory after raising your hand from the keyboard.

- On Depending on the setting of the "Memory Mode" parameter (in the Global > Mode Preferences > Style), the sound on the left of the split point (Lower), and/or the chords for the automatic accompaniment can kept in memory even when you raise your hand from the keyboard.
- Off Both the sound and chord are released as soon as you raise your hand from the keyboard.

Note: This function can be automatically activated by playing the keyboard harder, by setting the "Velocity Control" parameter (in the Global > Mode Preferences > Style page).

SHIFT You can jump to the Global > Mode Preferences > Style page by keeping SHIFT pressed and pressing the MEMORY button.

BASS INV. (Bass Inversion)

This button turns the Bass Inversion function on or off.

- On The lowest note of a chord played in inverted form will always be detected as the root note of the chord. Thus, you can specify to the arranger composite chords such as "Am7/G" or "F/C".
- Off The lowest note is scanned together with the other chord notes, and is not always considered as the root note.

Note: This function can be automatically activated by playing the keyboard harder. See "Velocity Control" on page 258.

M. BASS (Manual Bass)

This button turns the Manual Bass function on or off.

On The automatic accompaniment stops playing (except for the Drum and Percussion tracks), and you can manually play the Bass track on the Lower part of the keyboard. You can start the automatic accompaniment again after pressing this button to turn off the Manual Bass function.

Off The bass track is automatically played by the Style.

Note: When you press the MANUAL BASS button, the Bass track volume is automatically set to its maximum value. The volume is automatically set back to the original value when the MANUAL BASS button is deactivated.

CHORD SEQUENCER

While a Style is in play, you can use this section as a Chord Sequencer and record a looping sequence of chords. The chords will drive the arranger, leaving your hands free for solo playing.

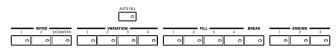
RECORD (BASS INV. + M. BASS): Press these buttons together to start recording the Chord Sequence. Recording will start from the next measure. Press these buttons again to stop recording.

PLAY/STOP (MEMORY + BASS INV.): Press these buttons together to let the Chord Sequence play in loop, and automatically drive the arranger. The Chord Sequence will start on the next measure. Press these buttons again to stop the sequence.

The Chord Sequence will remain in memory up until you record a new Chord Sequence, or you turn the Pa3XLe off.

Style Elements

This section contains the separate elements of a Style (Intro, Variation, etc.).



INTRO 1-3 buttons

These buttons turn the corresponding Intro on. Intro 1 plays a sequence including a chord progression, while Intro 2 plays a fixed chord. Intro 3 is usually a one-bar Count In.

After pressing one of these buttons, start the Style, and it will begin with the selected intro. The INTRO LED will automatically go off at the end of the intro.

At the end of the Intro, the Variation whose LED was blinking will be selected.

Press one of the INTRO buttons twice (LED blinking) to let the corresponding Intro play in loop, and select any other Style element (Intro, Variation, Ending) to exit the loop.

VARIATION 1-4 buttons

Each of these buttons selects one of the four Variations of the current Style. The higher the Variation number, the denser the arrangement.

SHIFT You can jump to the Style Play > Drum Map page by keeping SHIFT pressed and pressing one of the VARIATION buttons.

AUTO FILL

This button allows to turn the Auto Fill function on or off.

- On When selecting a different Variation, the Fill having the same number of the previous Variation is automatically selected. For example, if going from Variation 2 to Variation 3, Fill 2 is automatically selected.
- Off When choosing a Variation, no fill is selected.

FILL 1-4 buttons

These buttons trigger a fill-in. Press them twice (LED blinking) to let them play in loop, and select any other Style element (Fill, Intro, Variation...) to exit the loop (or press the same button again).

Note: This function can be automatically activated by playing the keyboard harder. See "Velocity Control" on page 258.

Note: If the Auto Fill function is activated, a Fill will be automatically selected when choosing the corresponding Variation.

SHIFT You can jump to the Style Play > Drum/Fill page by keeping SHIFT pressed, and pressing one of the FILL buttons.

BREAK

This button triggers a break. Press it twice (LED blinking) to let it play in loop. Press it again or select any other Style Element (Intro, Variation, Ending) to exit from the loop.

ENDING 1-3 buttons

These buttons trigger the corresponding Ending. Ending 1 plays a sequence including a chord progression, while Ending 2 plays a fixed chord. Ending 3 starts immediately, and is just two measures long.

While the Style is running, these three buttons trigger an Ending, and stop the Style. Press one of them, and the Style will stop running with an Ending.

Press them twice (LED blinking) to let them play in loop, and select any other Style element (Intro, Variation...) to exit the loop.

Style Controls

Use these buttons to start/stop the accompaniment.



FADE IN/OUT

When a Style or Song is not playing, press this button to start it with the volume "fading in" (the volume goes from zero to maximum).

When a Style or Song is playing back, press this button to stop it with the volume "fading out" (the volume gradually decreases).

You don't need to press START/STOP or PLAY/STOP to start or stop the Style or Song.

Note: This does not work in Sequencer mode.

SHIFT You can jump to the Global > General Controls page by keeping SHIFT pressed and pressing the FADE IN/OUT button.

TAP TEMPO/RESET

This is a double-function button, acting in a different way depending on whether the Style is running or not.

Note: This button only works while in Style Play mode.

Tap Tempo: When the Style is not playing, you can "beat" the tempo on this button. Tap as many times as the Time Signature's numerator (for example, four times with a 4/4 Time Signature, or three times with a 3/4 one). At the end, the accompaniment starts playing, using the "tapped in" tempo.

Reset: If you press this button while the Style is playing back, the Style pattern goes immediately back to the beginning of measure 1.

START/STOP

Starts or stops the Style.

Note: This function can be automatically activated by playing the keyboard harder, by setting the "Velocity Control" parameter (in the Global > Mode Preferences > Style page).

SHIFT You can reset all 'frozen' notes and controllers on the Pa3XLe and any instrument connected to its MIDI OUT or the USB Device port, by using the **"Panic"** (SHIFT + START/STOP) "Velocity Control" on page 258key combination. Just press SHIFT + START/STOP to stop all notes and reset all controllers.

SYNCHRO START / STOP button

These buttons turn the Synchro Start and Synchro Stop functions on or off. With this feature, you can choose to press the START/STOP button to start and/or stop a Style, or just play the keyboard in the Chord Scan area.

Note: This button only works while in Style Play mode.

Start On, Stop Off

In this situation, just play a chord in the chord recognition area to automatically start the Style. If you like, turn one of the INTROs on before starting the Style.

Start On, Stop On

When both LEDs are lit, raising your hands from the keyboard will momentarily stop the Style. If you play a chord again, the Style will start again.

Start Off, Stop On

In this case, raising your hands from the keyboard will stop the Style.

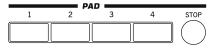
Start Off, Stop Off

All Synchro functions are turned off.

(SHIFT) You can jump to the Global > MIDI > General Control by keeping the SHIFT button pressed and pressing the SYNCHRO START/STOP button.

Pads

Here you can play (and stop) the Pads, i.e. single sounds or looping sequences.



PAD 1-4 STOP

Each Pad button corresponds to a dedicated Pad track. Use these buttons to trigger up to four sounds or sequences at the same time.

- Press a single PAD button to trigger a single sound or sequence.
- Press more PAD buttons to trigger several sounds or sequences.

Sequences will play up to the end. Then, they will stop or continue repeating, depending on their "One Shot/Loop" status (see the "Pad Type" parameter in the Pad Record mode).

You can stop all sounds or sequences at the same time, or just some of them:

- Press STOP (in the PAD section) to stop all sequences at once.
- Press a single PAD button to stop the corresponding sequence.

About Pad synchronization. In Style Play mode, Pads are synchronized to the Style's Tempo. In Song Play mode, they are synchronized to the latest Player you set to play. For example, assume you pressed PLAYER 2-PLAY; when pressing one of the PAD buttons, it will play in sync with Player 2.

Note: There is no synchronization with MP3 files. Pads can only be synchronized to the Tempo of the latest selected Standard MIDI Files. Therefore, when an MP3 file is assigned to the latest select Player, Pads will synchronize to the Tempo of the latest Standard *MIDI File that has been played back.*

About the Play command of Players and the Pads. When you press one of the PLAY buttons to start the corresponding Player, all Pads will stop playing.

(SHIFT) You can jump to the Style Play > Pad/Assignable Switch page by keeping SHIFT pressed, and pressing one of the PAD buttons.

Record, Track Select

Use the RECORD and TRACK SELECT buttons to create or edit Styles, Songs or Sounds, or select track groups.



RECORD

This button sets the instrument to the Record mode (which one depends on the current operating mode).

TRACK SELECT

Depending on the operating mode, this button switches between the various track views.

STYLE PLAY MODE

Toggles between Keyboard and Style tracks.

SONG PLAY MODE

Toggles between Keyboard tracks, Song tracks 1-8, and Song tracks 9-16.

SEQUENCER MODE

Toggles between Song tracks 1-8 and Song tracks 9-16.

STS Section

Use the STS (Single Touch Settings) buttons to assign Sounds to the keyboard.



STS 1-4 buttons

These buttons allow to select up to four Single Touch Settings (abbreviated as STS). Each of the Styles and SongBook Entries includes four Single Touch Settings (STS), to automatically configure Keyboard tracks and effects at the touch of a finger.

By keeping one of these buttons pressed for about one second, the "Write Single Touch Setting" dialog box will appear.

Note: STS contained inside Factory Styles are usually write-protected (unless you uncheck the "Factory Style and Pad Protect" option in the Global > Mode Preferences > Media page)



Search, Shift

Use the SEARCH and SHIFT buttons to search the memory's content or activate a button's seconds function.



SEARCH

Press this button to open the Search window, and look for a specified file or musical resource. The Search window appears slightly different depending on the context.

SHIFT

With this button held down, pressing certain other buttons gives access to a second function. The list of shortcuts is in the Appendix.

Players and Sequencer Controls

Pa3XLe is equipped with two players (Player 1 and Player 2), each with its own set of transport controls. The Player 1 group is also used for the Sequencer mode.



SELECT

Press this button to open the Song Select window and choose a Song. This is the same as touching the Song name in the display.

<< and >>

Rewind and Fast Forward commands. If you use them while the Song is in play, they make it scroll back or forward.

When pressed once, these buttons move the Song to the previous or following measure (with a Standard MIDI File) or to the previous or next second (with an MP3 file). When kept pressed, they make the Song scroll continuously, until you release them.

In Sequencer mode, if you set a "Start from" measure other than 1, when pressing the << button the Song rewinds up to that measure instead of the first one (see "Start from" on page 182).

SHIFT In Jukebox mode (Player 1), keep the SHIFT button pressed, and press these buttons to scroll to the previous or next Song in the Jukebox list (see "Jukebox Editor" on page 179).

I⊲ (HOME)

Sends the Song Position back to the beginning of the Song.

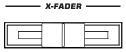
In Sequencer mode, if you set a "Start from" measure other than 1, the Song Position goes back to that measure (see "Start from" on page 182).

►/■ (PLAY/STOP)

Starts or stops the Song from the current Song Position. (SHIFT) In Song Play mode, pressed while keeping SHIFT pressed, starts both players at the same time.

X-FADER

In Song Play mode, this slider balances the volume of the two onboard Players. When fully on the left, only Player 1 can be heard. When



fully on the right, only Player 2 can be heard. When in the middle, both Players play at full volume.

This slider also selects the Lyrics, Score and Markers from one of the Players.

Note: This slider does not work in Style Play, Sequencer or Sound mode.

PLAYER 2 TRANSPORT CONTROLS

Transport controls for Player 2. See instructions for Player 1 above.

SongBook

The SongBook is a database of song titles, that can automatically choose the more appropriate Style, Standard MIDI File or MP3 file for you.

SONGBOOK

While you are in Style Play or Song Play mode, SONGBOOK press this button to open the SongBook. While the SongBook is shown on the display, you can browse through the music database.



 \overline{F} By keeping this button pressed for about one second, a new SongBook Entry with the current settings is added to the database. You will be able to give it a name and save.

SHIFT) You can jump to the SongBook > Custom List page by keeping SHIFT pressed and pressing the SONGBOOK button.

Ensemble

The Ensemble function automatically harmonizes the melody you play with your right hand.

ENSEMBLE

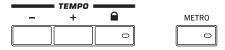
This button turns the Ensemble function on or off. ENSEMBLE When on, the right-hand melody is harmonized with the left-hand chords.

Note: The Ensemble function only works when the keyboard is in SPLIT mode.

SHIFT) You can jump to the Style Play > Keyboard/Ensemble page by keeping SHIFT pressed and pressing the ENSEMBLE button.

Tempo Section

The TEMPO and METRO buttons can be used to control the Tempo and the Metronome.



TEMPO +/- buttons

 $\ensuremath{\mathsf{TEMPO}}\xspace$ - decreases the speed of the Style or Song. TEMPO+ increases it.

Press both buttons together to reset the Tempo to the value memorized in the Style or Standard MIDI File. With MP3 files, the original speed of the file is recalled (value reset to "0").

TEMPO LOCK (

This button turns the Tempo Lock function on or off.

- On When you select a different Style or Performance, or select a different Song, the Tempo will not change. You can still manually change it, by using the TEMPO +/- buttons, or select the Tempo value and change it by using the VALUE DIAL.
- Off When you select a different Style or Performance, or select a different Song, the memorized Tempo will be automatically selected.

Note: This button does not work with MP3 files.

SHIFT You can jump to the Global > General Controls > Lock page by keeping SHIFT pressed and pressing this button.

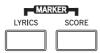
METRO

Use this button to turn the Metronome on or off.

SHIFT You can jump to the Global > General Controls > Basic page by keeping SHIFT pressed, and pressing this button.

Lyrics, Score, Marker

Use these buttons to access the Lyrics, Score or Marker pages. Use the X-Fader to select either Player 1 or Player 2.



LYRICS

This button recalls the Lyrics page for the Song or the Style.

SCORE

Press this button to open the Score page (in Song Play mode).

MARKER

Press together the LYRICS and SCORE buttons to open the Marker page (in Song Play mode).

Sound Select

SOUND SELECT

Use this button to open the Sound Select window and select a Sound to be assigned to the selected track. This is the same as touching a Sound name in the display. Repeatedly press it to cycle between the Sound bank pages.

For each type of Sounds there are several Sound banks, that can be selected by touching the side tabs. Each Sound bank contains various pages, each with up to eight Sounds, that can be selected by touching the lower tabs. Sounds of the *Factory* type are usually write-protected (unless you uncheck the "Factory Sound Protect" option in the Global > Mode Preferences > Media page). Sounds of the *Legacy* type are standard Factory Sounds allowing greater compatibility with older Pa-Series instruments. Factory Sounds of the *GM* type allow for compatibility with General MIDI sounds. Sounds of the *User* type are locations where you can load new Sounds from an external device, or save new or edited Sounds. The *User DK* type is where you can load new Drum Kits, or save new or edited Drum Kits.

Chord Scan and Keyboard Split

Use these buttons to choose chord recognition and keyboard splitting.

LOWER	UPPER	SPLIT
		0

CHORD SCAN section

In Style Play, Song Play and Sequencer-Backing Sequence mode, use these buttons to define the way chords are recognized.

- LOWER Chords are detected below the split point. The number of notes you should play to form a chord is defined by the Chord Scan Mode parameter (see "Chord Recognition" on page 258 of the User Manual).
- UPPER Chords are detected above the split point. You must always play three or more notes to let the arranger recognize a chord.

FULL (both LEDs On)

Chords are detected on the full keyboard range. You must always play three or more notes to let the arranger recognize a chord. (You can use this mode even when the Split keyboard mode is selected). A Fingered or Expert Chord Recognition Mode is automatically selected (see "Chord Recognition" on page 258 of the User Manual).

OFF No chords detected. After pressing START/STOP, only the Drum and Percussion accompaniment tracks will play.

SPLIT

In Style Play, Song Play and Sequencer-Backing Sequence mode, use this button to choose how the four Keyboard tracks are positioned on the keyboard, and how chords are recognized by the arranger.

Note: One of the Chord Scan options must be selected for the accompaniment to play.

On The Lower track plays below the split point, while the Upper 1, Upper 2 and Upper 3 tracks play above it. This is called the *Split* keyboard mode.

By default, turning on the Split mode automatically selects the Lower chord scanning mode (see above). In this mode, chords are detected below the split point. The number of notes you should play to form a chord is defined by the "Chord Recognition" parameter (see page 258 of the User Manual). Off

The Upper 1, Upper 2 and/or Upper 3 tracks play over the whole keyboard range. The Lower track does not play. This is also called the *Full* keyboard mode.

> By default, turning off the Split mode automatically selects the Full chord scanning mode (see above). In this mode, chords are detected over the full keyboard range. You must always play three or more notes to let the arranger recognize a chord (see "Chord Recognition" on page 258 of the User Manual).

 \mathbb{F}^{2} By keeping this button pressed for about one second, the Split Point window appears. When there, play the new split point on the keyboard.

Transpose Section



Use these buttons to transpose the Sounds.

UPPER OCTAVE

Use these buttons to transpose the Upper tracks in steps of one whole octave (12 semitones; max ± 3 octaves). The octave transposition value is always shown (in octaves) next to the Sound's name.



Press both buttons together, to reset the Octave Transpose to the saved value.

_	Lowers the selected	track by	v one octave.

+ Raises the selected track by one octave.

SHIFT You can jump to the Style Play > Mixer/Tuning > Tuning page by keeping SHIFT pressed and pressing one of the UPPER OCTAVE buttons. *Hint:* Go to the Tuning page to separately transpose each track.

TRANSPOSE

These buttons transpose the whole instrument in steps of one semitone (Master Transpose). The transpose value is usually shown in the page header.

STYLE PLAY (MT: 6) <no chord>

Press both buttons together, to reset the Master Transpose to zero.

Note: You can also transpose MP3 files. Keep in mind, however, that transposition always remains inside the range -5...+6 semitones. This range is enough to cover all keys, but allows to avoid excessive audio degradation. Any further transposing will be reversed to fit the range. So, you might see a +7 transpose value (Just Fifth Up) shown in the display, but the MP3 will actually play 5 semitones lower (Just Fourth Down).

- b Lowers the Master Transpose in steps of one semitone.
- Raises the Master Transpose in steps of one semitone.

SHIFT You can jump to the Global > Tuning > Transpose Control page by keeping SHIFT pressed, and pressing one of the TRANSPOSE buttons.

Performance Select Section

Use these buttons to select a Performance. Performances memorize all Sounds assigned to the keyboard, most control panel settings, and an associated Style.



MY SETTING

This is a special direct-access Performance, that is automatically selected when the instrument is turned on. When pressing this button, the Performance is immediately selected.

 \vec{r} Keep this button pressed for about one second to save the current settings into the My Setting Performance.

PERFORMANCE buttons

Use these buttons to open the Performance Select window, and select a Performance.

Each Performance bank contains five pages, each with up to eight Performances. Repeatedly press a PERFORMANCE button to cycle between the available pages.

All Performances can be freely customized, by accessing the edit pages of the Style Play and Song Play modes by pressing the MENU button.

ff By keeping one of these buttons pressed for about one second, the "Write Performance" dialog box will appear.

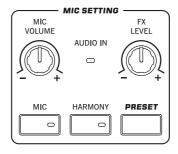
STYLE CHANGE

This button turns the Style Change function on or off.

- On When you select a Performance, the Style might change according to which Style is memorized onto the Performance.
- Off When you select a Performance, the Style will remain the same. Only Keyboard tracks (Sounds, Effects...) will be changed.

Mic Setting Section

Use these buttons to check the audio input level, set the volume of the microphone input and effects, and turn the microphone and harmony voices on or off.



AUDIO IN LED

This LED shows the level of the audio signal entering the AUDIO IN connectors (either mic or line). Three different colors (green, orange, red) show the level. Try to keep the level so that this LED remains on green most of the time, with orange appearing at signal peaks. Never go to red.

- Off: No signal entering.
- Green: Low- to mid-level signal entering. If the LED turns off too often, the input gain is too low. When a microphone is connected to the LEFT connector, use the MIC GAIN control to increase the input level. When a line-level device is connected, use the source device's own volume control.
- Orange: Slight overload in the signal path. This is fine if it turns on only on signal peaks.
- Red: Clipping is occurring in the signal path. Use the MIC GAIN control and/or the source device's volume control to lower the input level.

See "AUDIO IN Section" on page 20 for more information on the AUDIO IN connectors.

MIC VOLUME

Use this knob to set the overall volume of the microphone signal (including the Voice Processor effects). This is equivalent to the MIC/IN track you can see in the Volume pane of the main display.

FX LEVEL

Use this knob to set the volume of the Delay and Reverb sections of the Voice Processor.

MIC

Press this button to turn the microphone input on or off. The LED shows the status of the microphone section.

SHIFT If you keep the SHIFT button pressed, and press this buttons, the Global > Mic > Global Setup page will appear (see "Mic: Global Setup" on page 454).

HARMONY

Turns the Voice Harmony effect on or off. This adds harmonization voices to the lead voice.

SHIFT If you keep the SHIFT button pressed, and press this button, the Global > Mic > Harmony page will appear (see "Mic: Harmony" on page 450).

PRESET

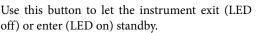
Use this button to open the Voice Processor Preset Select window and select a Preset to be assigned to the microphone signal entering the LEFT input. This is the same as touching a Preset name in the display.

For each type of Preset there are several Preset banks, that can be selected by touching the side tabs. Each Preset bank may contain up to eight Presets.

 \mathbf{F} By keeping this button pressed for about one second, the "Write Voice Processor Preset" dialog box will appear.

Standby On/Off

STANDBY (也)



Press it briefly to let the instrument exit standby. In case there are User Sounds based on User PCM Samples, loading may take some time.

Keep it pressed for about one second to let it enter standby.

Warning: When the instrument is on standby mode, it is still connected to the power line. Accessing the inside of the instrument can be dangerous. To completely disconnect the instrument from the power, unplug the power plug from the power socket on the wall.

Note: To avoid wasting power, Pa3XLe will by default automatically enter standby mode after two hours of non-active use (playing, pressing buttons or using the touch-screen). Please save your data (Performances, Styles, Songs, and so on) before taking a prolonged pause. You can change the auto power-off timer in Global > General Controls > Clock & Power.

USB Host connector

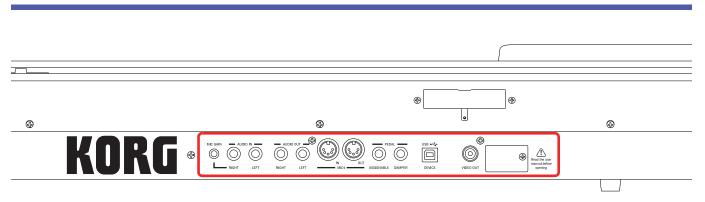
Use this connector to connect USB mass storage devices.



USB HOST(F) CONNECTOR

This is a USB Type A (Master/Host) connector, USB 2.0 compliant (High Speed). Use it to connect to the Pa3XLe an USB Flash Memory stick, an external CD-ROM drive, an USB hard disk. To access the connected device, go to the Media edit mode (see "Media" on page 283).

Rear Panel



Music stand and speakers

Music stand / Amplification bar support

This guide can be used to connect either the supplied music stand or the optional PaAS amplification system.

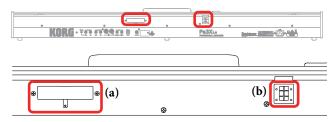


A music stand comes standard with your Pa3XLe. For instructions on how to install it, see on page 24.

The (optional) PaAS – Amplification System can be installed, adding a three-way amplification system, a pair of integrated speakers and a bass-reflex box. For instructions on how to install it, see "Installing the Pa3XLe Amplification System (PaAS)" on page 452.

Speakers connector and pin hole

The connector (a) and pin hole (b) are used when the (optional) PaAS – Amplification System is installed.



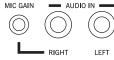
Note: Since Pa3XLe must recognize the new option, the integrated speakers will start operating only a few seconds after the speaker box has been installed.

The output volume of the integrated loudspeakers can be controlled via the MASTER VOLUME slider.

Note: Speakers are automatically deactivated when connecting the headphones. You can manually deactivate them by using the "Speakers On/Off" parameter of the "Audio Setup" section of the Global mode (see "Speakers On/Off" on page 268).

AUDIO IN Section

Use these connectors to connect a dynamic microphone, another key-board/synthesizer, or a CD player.



MIC GAIN

Use this controls to adjust the input sensitivity of the RIGHT connector (from 0 to +40dB) when it is set to the microphone input sensitivity (see above). You can check the input level by watching at the AUDIO IN LED on the control panel (see "Mic Setting Section" on page 18).

LEFT, RIGHT

Use these connectors to connect a line-level input source, such as a CD player or a synthesizer, or a dynamic microphone. The signal routing, and the correct impedence for these inputs, can be selected with the "Input Routing" parameter in the Global > Audio & Video > Audio In page (see page 270).

• When the "Input Routing" parameter is set to "Right In to Voice Processor", you can connect a dynamic microphone to the RIGHT audio input, and a mono line-level source to the LEFT audio input. Use the MIC GAIN knob to adjust the input gain. Set the volume level of the microphone signal in the mix by using the MIC VOLUME knob, while watching at the AUDIO IN LED on the control panel (see "Mic Setting Section" on page 18).

• When the "Input Routing" parameter is set to "Audio In to Direct Out", you can connect a line-level input source to the LEFT and RIGHT audio inputs. Use the source's output volume control to adjust the input level, while watching at the AUDIO IN LED on the control panel.

AUDIO OUT Section

Use these connectors to send the audio signal (sound) to a mixer, a PA system, a set of powered monitors, or your hi-fi system.



LEFT, RIGHT

Use these line-level outputs to send the final stereo mix to an external device. Connect either of them to output the signal in mono. Adjust the output level with the MASTER VOLUME knob.

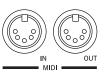
Connect two mono cables to these outputs. Connect the other end of the cables to a stereo channel of your mixer, two mono channels, two powered monitors, or the CD, LINE IN or TAPE/ AUX input of your audio system. Don't use the PHONO inputs of your audio system!

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Connecting a jack to these outputs will not deactivates the integrated speakers. This way, you can continue to monitor your playing, while the signal is sent to the main mixer.

MIDI Interface

The MIDI interface allows your Pa3XLe to be connected to external controllers (master keyboard, MIDI guitar, wind controller, MIDI accordion...), to a series of expanders, or to a computer running a sequencer.



IN

This connector receives MIDI data from a computer or a controller. Connect it to an external controller's or computer's MIDI OUT.

Ουτ

This connector sends MIDI data generated by Pa3XLe's keyboard, controllers, and/or the internal player. Connect it to an expander's or computer's MIDI IN.

Pedals

Use these connectors to connect various types of pedals.



DAMPER

ASSIGNABLE

ASSIGNABLE

Use this port to connect a continuous- or

footswitch-type pedal, like the (optional) Korg EXP-2, XVP10, PS-1 or PS-3. To program and calibrate it, go to the Controllers > Foot Controllers page of the Global mode.

DAMPER

Use this to connect a Damper pedal, like the (optional) Korg PS1, PS3 or DS1H. To change its polarity and calibrate it, go to the Controllers > Foot Controllers page of the Global mode.

Note: Half-pedalling on Piano Sounds is available when connecting a DS1H Damper pedal.

USB Device Connector

Use this connect or connect Pa3XLe to a personal USB eva

DEVICE

This is a USB Type B (Slave/Device) connector, USB

2.0 (High Speed). Use it to connect the Pa3XLe to a personal computer, and transfer data to/from its internal memory (Disk). You can enable USB connection in the "USB" page of the Media mode.

MIDI over USB is supported, so you can use this connector instead of the MIDI ports. The drivers for PC and Mac, needed to make full use of this type of connection, are supplied in the Accessory Disc that comes with the instrument, or can be downloaded from our web site.

Video

VIDEO OUT

You can connect Pa3XLe to a TV or video monitor.



Pa3XLe is compatible with the NTSC, PAL and SECAM TV standard. When connecting a SECAMcompliant TV set, select the PAL standard. However, in this latter case, the image will be shown in black and white.

1. Connect the instrument's video output to the video input of the television set. Depending on the type of television set, you can use a cable of the type "RCA-to-RCA" (if the television set is equipped with a Video Composite input), or "RCA-to-SCART" (if the television set is equipped with a SCART connector). You can buy the needed cables at a store that sells television equipment.

2. Turn the instrument on, and press the GLOBAL button to gain access to the Global mode. Go to the Audio & Video > Video Out page, and select the video standard (PAL or NTSC).

3. Turn the television set on, and tune it on the correct AV input.

4. In the same page of the Global, use the Colors parameter to choose the preferred set of colors for the lyrics and the background.

Expansion slot

This opening gives access to the clock battery and microSD slot.

Clock battery

Pa3XLe contains a backup battery

for the internal clock. You can replace the clock backup battery by following the relevant instructions on page 448.

microSD slot

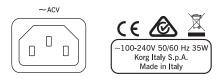
To expand the available onboard memory, you can install an (optional) microSD card inside Pa3XLe, by following the relevant instructions on page 450.

Power

This is where you connect Pa3XLe to the power line.

ACV cable connector

Plug the supplied AC cable into this connector. When the cable is connected, the instrument is on standby mode. To let it enter or exit standby, use the STANDBY switch located on the front panel.



Warning: When the instrument is on standby mode, it is still connected to the power line. Accessing the inside of the instrument can be dangerous. To completely disconnect the instrument from the power, unplug the power plug from the power socket on the wall.



Start up

Connecting the AC power cord



Connect the supplied power cord to the dedicated socket on the rear of the instrument. Then, plug it into a wall socket. You don't need to worry about the local voltage, since the Pa3XLe uses a universal power adapter.

When the cable is connected to the power, the instrument automatically enters standby mode.

Turning the instrument on (or off)

Press the STANDBY button on the front panel to let the instrument exit standby. The display will light up, showing the boot procedure. Note: When the instrument exits standby, User

PCM Samples used by some User Sounds may be automatically loaded. Loading them may take some time.

Keep the STANDBY button pressed for about one second to let the instrument enter standby.

Warning: When putting the instrument on standby, all data contained in RAM (Song recorded or edited in Sequencer mode, the Chord Sequence, Samples in edit and not yet saved) will be lost. MIDI Grooves generated by the Time Slice function will be lost, too.

On the contrary, data contained in the internal memory (Factory data, User Sounds, Performances, Styles and Multisamples) will be preserved. Saved Samples will be preserved as well.

Controlling the Volume

Master Volume



Use the MASTER VOLUME knob to control the overall volume of the instrument. This knob controls the volume of the sound going to the integrated speakers (assuming the optional PaAS – Amplification System is installed), the AUDIO OUT and PHONES connectors.

Note: Begin at a moderate level, then raise the MASTER VOL-UME up. Don't keep the volume at an uncomfortable level for too long.

Keyboard, Style Accompaniment and Song Volume

By default, the BALANCE knob balances the volume of the Keyboard (KBD) tracks, against the Style's Accompaniment (ACC), Song and Pad tracks.



- When in Style Play mode, this knob balances between the Keyboard tracks, and the Style and Pad tracks.
- When in Song Play mode, this knob balances between the Keyboard tracks, and the Player and Pad tracks.

This is a relative control, whose effective maximum level is determined by the MASTER VOLUME knob position.

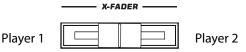
When moved, a magnified version of the virtual slider appears in the display, for more accurate positioning.

As an alternative, the knob can be used to control the Style/Song Volume without affecting the Keyboard tracks (choose the desired behavior by editing the "Balance Control" parameter in the Global > Controllers > Hand Control page).

Note: This knob only works in Style Play and Song Play mode; it does not work in Sequencer mode.

The X-Fader slider

The X-FADER slider sets the relative volume of the two onboard players (Player 1 and Player 2).



- Move it fully to the left to set Player 1 to the maximum level and Player 2 to zero.
- Move it fully to the right to set Player 1 to zero and Player 2 to the maximum level.
- Move it to the center to set both Players at the same level.

This slider also selects the Harmony source, as well as the Lyrics, Score and Markers of one of the two players.

Headphones

Connect a pair of headphones to the PHONES output, on the left side of the keyboard (under the joystick). You can use headphones with an impedance of 16-200 Ohms (50 Ohms suggested). Use a headphone splitter to connect more than one pair of headphones.

Note: When connecting the headphones, the speakers are automatically deactivated.

Loudspeakers

Connect the optional PaAS – Amplification System to make it the integrated loudspeakers of the Pa3XLe, adding a three-way amplification system, a pair of dual-coil integrated speakers and a bass-reflex box.

To install the amplification system, see "Installing the Pa3XLe Amplification System (PaAS)" on page 452.

After installation, the overall volume can be controlled via the MASTER VOLUME knob.

Speakers can be deactivated with the "Speakers On/Off" parameter, that you can find in the Global > Audio & Video: MP3/ Speakers page.

Note: When connecting the headphones, the speakers are automatically deactivated.

Audio Outputs

Audio outputs allow for connecting Pa3XLe to an external amplification system. The overall volume can be controlled via the MASTER VOLUME knob.

MIDI connections

You can play the internal sounds of your Pa3XLe with an external controller, i.e. a master keyboard, a MIDI guitar, a wind controller, a MIDI accordion, or a digital piano.

You can also control other MIDI devices with Pa3XLe, or connect it to a computer for use with an external sequencer.

As an alternative to the MIDI connectors, you can use the USB Device port for direct connection to a personal computer.

See the "MIDI" chapter on page 315 for more information on MIDI connections.

Damper pedal

Connect a Damper (Sustain) pedal to the DAMPER connector on the back panel. Use an (optional) Korg PS1, PS3 or DS1H footswitch pedal, or a compatible one. With the Korg DS1H, half-pedalling can be used on some Grand Piano sounds. To calibrate and switch the Damper polarity, go to the Controllers > Foot Controller page of the Global mode.

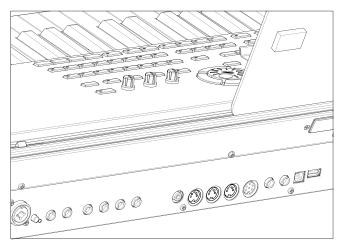
Assignable pedal

Connect either a footswitch or an expression pedal to the ASSIGNABLE connector on the back panel. Use an (optional) Korg PS1 or PS3 footswitch pedal, a Korg EXP-2 expression pedal, a Korg XVP-10 volume pedal, or a compatible one. To calibrate the pedal, go to the Controllers > Foot Controller page of the Global mode.

The music stand

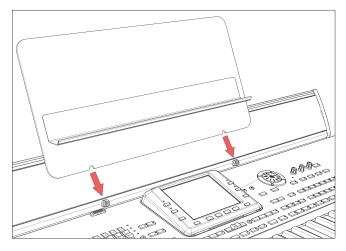
A music stand comes standard with your Pa3XLe.

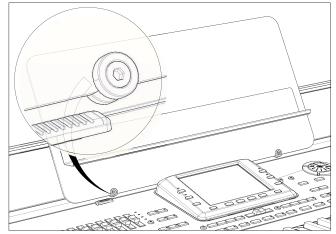
• If the (optional) PaAS – Amplification System is not installed, insert the music stand into this dedicated guide on the back of the Pa3XLe, as shown in the illustration:



The music stand can be freely adjusted, by sliding it to the left or the right of the standard central position.

• If the (optional) PaAS – Amplification System *is* installed, make it rest over the nylon supports in front of the PaAS, as shown in the illustration.





Glossary of Terms

Before you begin, take a few moments to familiarize yourself with the names and terms we will be using to talk about the various elements of the Pa3XLe.

In this section, you will find a brief description of various key elements of the Pa3XLe. A professional arranger (Pa) keyboard uses different terminology than a traditional synthesizer or workstation. By familiarizing yourself with the names and functions in this section, you will get a better understanding of how all the different parts of the Pa3XLe work together to create a realistic musical performance. This will also help you to get the most out of the rest of the manual.

Sound

A Sound is the most basic unit of an Arranger Keyboard performance. A Sound is basically a playable instrument timbre (piano, bass, sax, guitar...) that can be edited, saved, recalled and assigned to any track. An individual Sound can be played on the keyboard in the Sound mode. In the Style Play, Song Play or Sequencer mode, Sounds may be freely assigned to Sequencer tracks, Style tracks, or Keyboard tracks.

Style

The Style is the heart of a professional arranger keyboard. At its basic level, a Style will consist of up to eight parts, or "Tracks".

Drums

The Drum track will provide a repeating rhythmic phrase, played by the standard instruments of a Drum Kit.

Percussion

An additional rhythmic phrase played by various percussion instruments (conga, shaker, cowbell, etc.) is provided by the Percussion track.

Bass & Accompaniment

The Bass track and the (up to) five additional Accompaniment tracks will each play musical phrases that are musically related to and in sync with the Drum and Percussion tracks. However, the notes being played by these tracks *will* change to follow the chord progression that you play on the keyboard.

Again, any Sound you choose may be assigned to any track in a Style.

Variation

For each Style, there are four Variations, to be used for the Verse, Bridge and Chorus of a song. In general, each Variation is a slightly different version of the others. As you progress from Variation one to Variation four, the arrangements will become more complex, and more parts (Tracks) may be added. This allows your performance to have a more dynamic arrangement, without losing the original "feel" of the Style.

Fill-in & Break

During a performance, a drummer may often perform a "fill" such as when transitioning from a verse to a chorus – adding extra dynamics and keeping the beat from getting too repetitive. The Pa3XLe offers four Fill-ins specifically programmed for each Style, that may be automatically recalled when choosing the corresponding Variation (Auto Fill). A Fill-in may be drums alone or drums with instrumentation. Then, there is even a silent "break".

Intro & Ending

Each Style also allows you to complete your performance with a set of musical introductions and endings. A long and short version of the Intro and Ending are usually provided, with the former more harmonically elaborated, and the latter with a fixed chord. A "count-in" Style Intro is also provided, as well as the quick Ending 3.

Pad

Pads are single sounds or single-track patterns, that can be triggered by using the dedicated PAD buttons. They can be used to play in realtime single sounds, as well as short, cycling sequences that play in time with the Style or Standard MIDI File, and are transposed according to the recognized chords.

Keyboard tracks

In addition to the Style and Pad tracks, up to four additional parts can be played on the keyboard in real-time. Each of these Keyboard tracks can be limited to a particular range of keys or velocities, but in general up to three can be assigned to play above the split point (Upper), and one below (Lower). This allows the Upper Sounds to be layered together. The split point can be set to any note on the keyboard. In addition to performing along with a Style, these same Keyboard tracks will allow you to play along with the Players.

STS (Single Touch Settings)

Single Touch Settings allow you to instantly change the sounds assigned to each of the Keyboard tracks with a single button press, allowing for wide variation in sounds during a performance. Four STS (Single Touch Settings) can be saved with each Style or SongBook Entry.

Ensemble

By turning the Ensemble feature on, a single note played on one of the Keyboard tracks will be embellished by additional notes to create a complete chord voicing. The Ensemble knows which notes to add by looking at the chord that you are playing. In addition, the Ensemble parameters allow you to select the type of voicing that will be added – from a simple one-note harmony to a full "Brass" section – even a marimba-style trill!

Performance

The Performance is the most encompassing setting on the Pa3XLe – a single setting that can remember a Style (with all the appropriate sounds), the Keyboard tracks (with all the appropriate sounds) and all their Tempo, transposition, effects, etc... A Performance can be stored in one of the Performance bank locations, or it can be saved in a "database" format using the Song-Book function.

Sequencer

The Sequencer acts as a recorder, so you can capture and playback your performances. The Pa3XLe sequencer can function in different modes. In the Backing Sequence mode, each Style element and each Keyboard and Pads element can be recorded on a separate track in a single pass. This can be a big help in getting a song recorded quickly. The sequencer can also behave as a traditional 16-track linear sequencer, where each track is recorded individually one at a time.

Player

The two Players let you playback your performances or any Standard MIDI File or MP3 file. Like a DJ console, you can mix two songs with the X-Fader slider.

The LOGO decoder

On the front panel of your Pa3XLe you have probably noticed a series of logos, and may have even wondered what they stand for. Well, here is a quick explanation of each one.



General MIDI (GM) is a standard that ensures the compatibility of sounds and messages between GM compatible instruments available from different manufacturers. For example,

sequenced songs created on any GM equipped product and saved in the GM format will playback correctly on the Pa3XLe.

General MIDI 2 extends the basic features of the General MIDI, allowing for 256 Sounds and 9 Drum Kits (instead of 128 and 1).



RX Technology is the cutting edge engine that drives every aspect of the Pa3XLe – from the synthesis to the display and how it all works together.



DNC (Defined Nuance Control) is the way of fine-controlling Korg's powerful sound engine. Every nuance and every detail of the sound can be assigned to a different control, be it the keyboard busiced controllor

velocity or a physical controller.

TouchView

TouchView is the sophisticate technology allowing for touching the objects in the display, instead of pointing to them

through an external device (a mouse, a series of buttons). Go straight to the musical elements, instead of catching keys somewhere on the control panel.



TC-Helicon is the world's leading company in vocal processing. Korg partnered with them for the outstading

Voice Processor tecnologies included in our Pa-Series instruments.

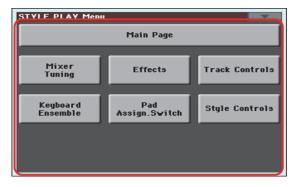
Interface basics

Color TouchView graphical user interface

Pa3XLe features our exclusive easy-to-use TouchView graphic interface, based on a touch-panel LCD screen. By touching items on the LCD screen, you can select pages, tabs, and parameters, and set parameter values via on-screen menus and buttons. Here are the basic elements of the user interface.

Menus and sections

Pages are grouped in sections, to be selected by touching the corresponding buttons in the Edit menu that opens up when you press the MENU button.



Pages

Parameters are grouped into separate pages, to be selected by touching the corresponding tabs on the lower area of the display.

DUS LEUS	NCCOMP	DAGG	HIC-TH	LOWER	UPPER3	UPPER2	UPPER1	
STS Name	Volume	Pad	Split	Sub Scale			Mic	

Overlapping windows

Several windows, like the Style Select or Pad Select, the Global, the Media, or the Lyrics, overlap the current window. After you select an item in the window, or press the EXIT button, the window closes, and the underlying page is shown again. (The following example is the Sound Select window).

SOUND	SELEC	T:Gran	d Pian	o RX	T: Upper 1		
Factor	y L	egacy]G	4	User		
Piano	Gran	nd Piano	o RX	G.Pi	iano Stack 1	Brass	
E. Piano		121.	010.000		121.008.002	Sax	
Mallet & Bell	Conce	rt Gra	nd RX	G.Pi	iano Stack 2	Wood- wind	
Accor-		121.	013.000		121.009.002	Synth Pad	
Organ	Gran	d Piano 121.	Live 012.000	Hon	Honky-Tonk RX 121.002.003		
Guitar						Ethnic	
Strings & Vocal	Gr	and Pia 121.	ino 003.000	Rag	time Piano 121.003.003	Bass	
Trumpet & Trbn.	P1	P2	P3	P4	J	Drum & SFX	

Dialog boxes

Similar to selecting windows, dialog boxes overlap the underlaying page. Touch one of the button on the display to give Pa3XLe an answer, and the dialog box will close.

₩arn	ing
Are you:	sure?
No	Yes

Page menus

Touch the icon on the upper right corner of each page, and a menu with suitable commands for the current page will appear. Touch one of the available commands to select it. (Or, touch anywhere else on the screen to make it disappear, with no command selected).

—
Write Performance
Write Single Touch Setting
Write Current Style Settings
Solo Track
Copy FX
Paste FX
Easy Mode

Pop-up menus

When an arrow appears next to a parameter name, touch it to open a pop-up menu. Select any of the available options (or anywhere else on the screen to make the menu disappear).

	2		Scale
	Equal	Kirnb.	
	P.Major	Slendro	
	P.Minor	Pelog	
Scale	Arabic	Stretch	
Scale	Pytag.	User	
STS Name Vol	Werck.		

Checkboxes

This kind of parameters are on/off switches. Touch them to change their status.



Numeric fields

When a numeric value can be edited, touch it a second time to open the Numeric Keypad.

SOUND: Amp	MT: 0				
				+	→
Stort:+99 Attack: Attack:51 Decau:ta	7	8	9	$\langle X \rangle$	Clear
- Level Modulati(AMS: ▼ 0ff	4	5	6		ĸ
Intensity: 0	1	2	з		
St:0 At:0 Br:	-	0	•	Ca	ncel
Amp Amp Amp Amp Lyl/Pan Mod E6	j				-

The virtual numeric keypad works exactly as the numeric keypad of a personal computer.

As an alternative, touch a numeric field and keep it held. Then move your fingers up (or right) to increase the value, or move it down (or left) to decrease it.



This also includes the Tempo numeric field in the main page of the Style Play, Song Play, and Sequencer modes.

Editable names

When the **T** (Text Edit) button appears next to a name, touch it to open the Text Edit window and edit the name.

			Filt	er							
Name:							Clear				
Genre: T Clear Artist ON SCREEN KEYBOARD Meter Tempo: 1 2 3 4 5 6 7 8 9 0 - q w e r t y u i o p [
Artist	ON SO	CREE	NKE	YB0/	ARD						
Meter									$\langle \mathbf{x}$) [ci	lear
Tempo :	1	2	3	4	5	6	7	8	9	0	-
	q	w	е	r	t	У	u	i	0	р	L
	a	s	d	f	g	h	j	k	Ι	;	·
	8		z	×	С	v	b	n	m	=	\mathbf{X}
		Alt		Spa	ace		,	·		1	
	?	╶╷═┩─────					Car	ncel		ОК	

The virtual keyboard works exactly as a personal computer's keyboard. Some of the symbols are context-sensitive, and only appear when they can actually be used.

Lists and scrollbars

Files on storage media, as well as other kinds of data, are shown as lists. Use the scrollbar to scroll the list content. Also, you can use the VALUE DIAL to scroll.

Type	ER 1 Song Selection Name	Size	Date	
MIDI	Another MIDI Song	22K	23-09-03 13:59	-
MIDI	Canyon	25K	21-01-11 21:33	
MIDI	LoveSong	22K	23-09-03 13:59	
MIDI	My MIDI Song	22K	23-09-03 13:59	_
JBX	MyJbxList	58	17-12-10 23:55	·
		Locat y A11	e Select	
	List		Scr	- -

When the Name label is selected, keep the SHIFT button pressed while touching one of the arrows on the scrollbar, to scroll to the next or previous alphabetic section.

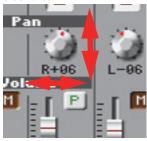
Virtual sliders

To change a virtual slider's position, select it, then use the VALUE DIAL to change its position. As an alternative, touch a slider with your fingers and keep it held; then move it up or down to change its position.



Virtual knobs

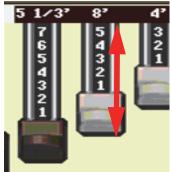
To change a virtual knob's position, select it, then use the VALUE DIAL to change its position. As an alternative, touch a knob with your finger and keep it held; then move your fingers up (or right) to rotate it clockwise, or move it down (or left) to rotate the knob counter-clockwise.



Virtual drawbars

To change a virtual drawbar's position, touch it with your fingers and keep it held. Then move it up or down to change its position.

As an alternative, select it, then use the VALUE DIAL to change its position.



lcons

Various icons help identifying the type of a file, a Song, a folder. For example:



Folder

File of Style bank



Standard MIDI File

Operative modes

The pages of Pa3XLe are grouped in various operating modes. Each mode is accessed by pressing the corresponding button in the MODE section on the control panel.

Each operating mode is marked with a different *color code*, that helps you understand at first sight where you are.

Two special modes (Global and Media) overlap the current operating mode, that remains active in the background.

The Record mode can be accessed from the Style Play and Sequencer modes, and allows for creating new Styles or Songs. It can also be accessed from the Sound mode, where allows you to edit Samples.

Selected, highlighted items

Any operation on parameters, data or list entries, is executed on highlighted items. First select the parameter or item, then execute the operation.



Non-available, grayed-out parameters

When a parameter or command is not currently available, it is shown in grey on the display. This means it cannot be selected, but may become available when a different option is selected, or you switch to a different page.



Shortcuts

Some commands or pages can be recalled by keeping the SHIFT button pressed, and pressing other buttons or elements in the display. See the "Shortcuts" chapter on page "Shortcuts" on page 457 for a list of available shortcuts.

Easy Mode

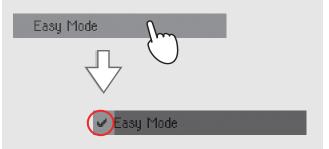
If you have never used an arranger before, we suggest you to switch to the Easy Mode. Easy Mode allows you to play Styles and Songs with a simple user interface, free from the many advanced parameters that you will want to learn later.

Turning the Easy Mode on

Touch the little rectangle on the top right corner of the display, to open the *page menu:*

STYLE PLAY MT: @	🛛 <no chord=""> 📃 🔽 🚬</no>	
s UnpluggedBallad1	Grand Piano RX	
L Unplugged Meter: 4/4 L: 12 J= 94	Dark Pad	
P MID 1 <no song=""> P MID 2 <no song=""></no></no>	Strings Ens.2 GM	
P Perf: My Setting	Movie Strings 1 🎻 🧕	
Play Play Play 0 DR-PERC RCCOMP BRSS MIC-/IN STS Name Volume Pad Split	DWER UPPER3 UPPER2 UPPER1 Sub Scale Mic	

Write Performance Write Single Touch Setting Write Current Style Settings Solo Track Copy FX Paste FX Easy Mode Touch the "Easy Mode" menu item, to make the checkmark appear:



At this point, the Easy Mode has been activated, and the elements in the display appear less crowded:

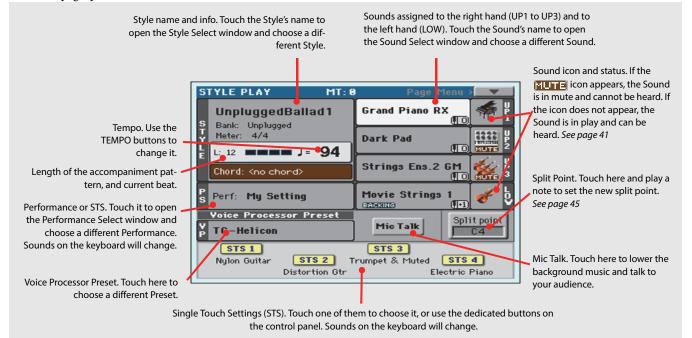
STYLE PLAY MT: 0	Page Menu >
UnpluggedBallad1 S Bank: Unplugged	Grand Piano RX 👘 🖁
S Bank: Unplugged Meter: 4/4	Dark Pad
Chord: <no chord=""></no>	Strings Ens.2 GM
S Perf: My Setting	Movie Strings 1
Voice Processor Preset	Split point
Y TC-Helicon	Mic Talk C4
STS 1 Nylon Guitar STS 2 Trumpet & Muted STS 4	
Distortion Gtr	Electric Piano

Turning the Easy Mode off

Reverse the above operation when you want to deactivate the Easy Mode.

The Style Play page in detail

To see this page, press the STYLE PLAY button.



Notes:

• There are three Sounds for the right hand (Upper 1, Upper 2, Upper 3), and a single Sound for the left hand (Lower). Their names are abbreviated as UP1, UP2, UP3, LOW, and are shown on the right side of the display.

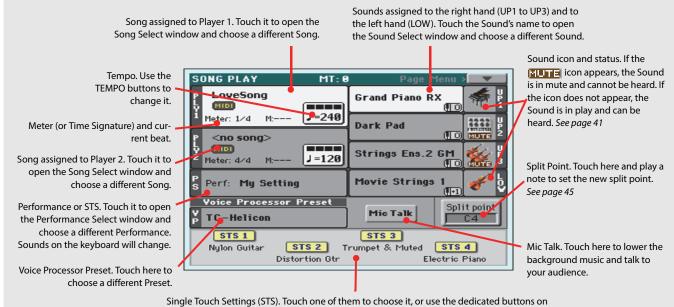
• Right hand (Upper) and left hand (Lower) Sounds are separated by the Split Point.

• Performances and STSs are collections of Sounds. Just choose one of them to change all the keyboard's Sounds.

• Choose a Style to change the musical style of the accompaniment patterns.

The Song Play page in detail

To see this page, press the SONG PLAY button.



the control panel. Sounds on the keyboard will change.

Notes:

• As in Style Play mode, there are three Sounds for the right hand (Upper 1, Upper 2, Upper 3), and one Sound for the left hand (Lower). Their names are abbreviated as UP1, UP2, UP3, LOW, and are shown in the right side of the display.

• Right hand (Upper) and left hand (Lower) Sounds are separated by the Split Point.

• Performances and STSs are collections of Sounds. Just choose one of them to change all the keyboard's Sounds.

• Available STSs depend on the Style or SongBook Entry you last selected.

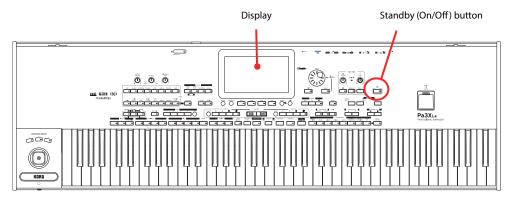
• Since there are two onboard Players, you can play two Songs at the same time. Mix them using the X-Fader on the control panel.

• Touching a Song name in the display is the same as to press one of the SELECT buttons on the control panel. Each Player has its own SELECT and transport buttons.

Guide **Suick**

Turning the instrument on

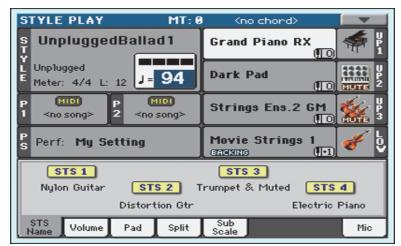
First of all, turn the instrument on and familiarize with the main screen. You can also listen to the demos.



Turning the instrument on and viewing the main screen

1 Turn Pa3XLe on (that is, make it exit from standby) by pressing the STANDBY button located in the control panel.

After you turn the instrument on, a welcome screen is shown for some seconds, then the main display appears.



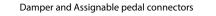
2 When you want to put Pa3XLe to standby, keep the STANDBY button pressed for about one second, and release it when the screen appears dimmed.

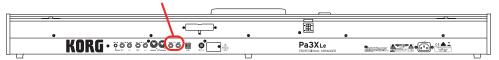
After having pressed the STANDBY button, the display brightness will be dimmed. At this point, the shutdown procedure will begin and will last for a few seconds. Please do not disconnect the power cable during this procedure.

Connecting and calibrating the Damper pedal

If you want to play Piano, you will want to connect a Damper pedal to sustain notes while playing. You can connect a Korg PS1, PS3 or DS1H to the DAMPER connector on the back of the instrument.

The difference between the PS1/PS3 footswitch, and a dedicated Damper pedal like the DS1H, is that this latter also supports all the nuances of half-pedalling; you can experiment how it works by gradually pressing it down, and gradually depressing it up while playing the Grand Piano RX Sound.



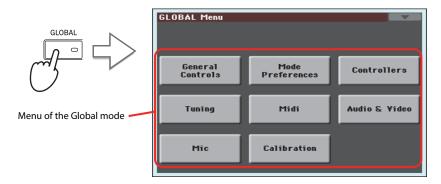


Programming the Damper pedal

Calibrating the Damper pedal will let you use the full run of the pedal, without "dead spots". Also, this might be the only way to connect a third-party Damper pedal that seems to work in reverse, sustaining the notes when they are not pressed!

1 Connect the Damper pedal to the DAMPER connector on the back of the instrument.

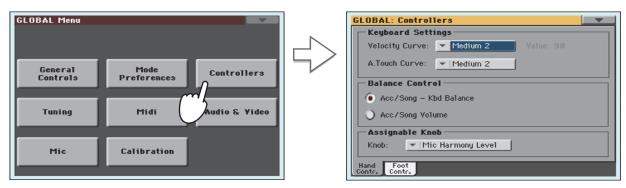
2 Press the GLOBAL button to access the Global mode.



Global mode is where you can set some global parameters, like this one, the Master Tuning or the Date & Time. These settings are not tied to any specific operative mode, so they are programmed in these separate pages.

3 Touch the Controllers button to access the Controllers section of the Global mode.

If you have not yet chosen a different page, the "Hand Controller" page will appear (being the first one in the Controllers section).



4 Touch the Foot Contr. tab to select the "Foot Controllers" page.

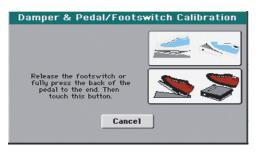
This is the page where you can program the Assignable Pedal/Footswitch and the Damper pedals.

GLOBAL: Controllers	GLOBAL: Controllers
Keyboard Settings	Pedal/Footswitch
Velocity Curve: 💌 Medium 2 Value: 90	Function: Vocal Remover On/Off
A.Touch Curve: VIedium 2	Calibration
Balance Control	Damper
Acc/Song - Kbd Balance	Damper
Acc/Song Volume	Calibration
Assignable Knob	
Knob: Mic Harmony Level	
Hand Foot	Hand Contr.

5 Touch the "Calibration" button in the Damper section, to make the "Damper & Pedal/ Footswitch Calibration" dialog box appear.

Damper & Pedal/Foots	witch Calibration
Fully press the footswitch/pedal to the end. While keeping the footswitch/pedal pressed, touch this button.	2
	N
Cancel	

- **6** Fully press the Damper pedal down, and while continuing to press touch the "Push" button to confirm the maximum value.
- 7 When the following dialog box appears, release the pedal.



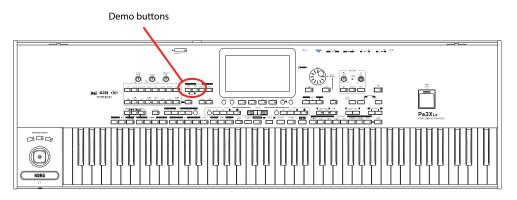
8 Touch the "Push" button in the display to confirm the minimum value.

Check if the pedal is working properly. In case it isn't, repeat the procedure.

9 Press the EXIT button to return to the previous operative mode.

Playing the Demo

Listen to the built-in Demo Songs to appreciate the power of Pa3XLe. There are several Demo Songs to choose from.

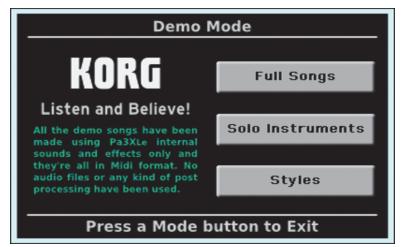


Starting and stopping the Demo

Here is how to start, choose and stop the Demo Songs.

1 Press the STYLE PLAY and SONG PLAY buttons together.

The LED of the two buttons will start blinking. Pa3XLe will be set in Demo mode.



At this point, if no other button is pressed, all the Demo Songs will be played back.

2 In case you want to listen to a specified Demo Song, select one of the available options on the display (Full Songs, Solo Instruments, Styles).

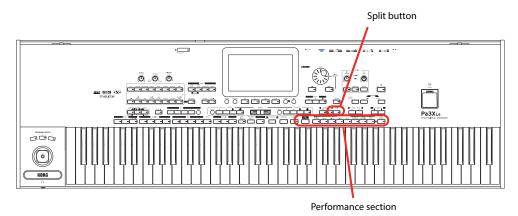
3 Choose one of the Demo. To stop it, touch the STOP button on the display.

F	Full Song Demos						
Miscellane	ous sounds and effects	Funk, Pop					
Sound Medley1	Sound Medley2	Sound Medley3					
Classic Rock	Vintage E.Piano	Blues Guitar					
Classical Orch.	G.Piano&Orch.	Soprano&Orch.					
Synth Tracks	Real Samba	Dance					
Big Band	Jazz Organ	Piano&Clarinet					
STOP							
Press	EXIT to go to Main	Page					

4 Exit from the Demo mode by pressing any one of the MODE buttons.

Playing Sounds

You can play up to three sounds at the same time on the keyboard. You can also split the keyboard in two parts, to play up to three sounds with your right hand (Upper) and one with your left hand (Lower).



Selecting a Sound and playing it on the keyboard

Be sure the Upper 1 track is selected and set to play.

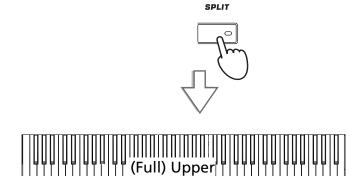


A selected track is shown with a white background. In this example, the Upper 1 track is selected. If it is not selected, touch it once to select it.

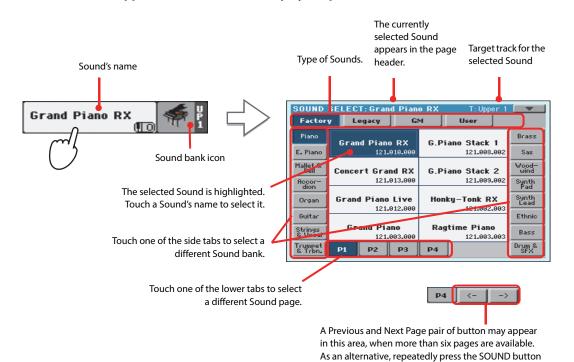
> The fact that there isn't a **SUITE** icon over the bank icon means that the Upper 1 track is set to play. **If it is muted, touch the bank icon to set it to play.**

Note: Be sure tracks Upper 2 and Upper 3 are muted and are not playing. If you hear more than one sound, see also page 41 for how to mute tracks.

2 If you want to play the Sound on the whole keyboard, be sure the keyboard is in Full Upper mode (i.e., the SPLIT LED is turned off). If it is split in two parts, press the SPLIT button to turn its LED off.



3 Touch the Upper 1 track's area in the display to open the Sound Select window.



Note: You can also open the Sound Select window by first touching the track to which you want to assign the new Sound, then pressing the SOUND SELECT button.

4 Select a Sound from the Sound Select window, then press the EXIT button to close the window.

SOUND	SELEC	r: Gran	d Pian	o Live	T:Upper 1	
Factor	y Le	egacy	Gł	ч]	User	
Piano	Gran	d Piano	RX	G.Pi	ano Stack 1	Brass
E. Piano		121.0	910.000		121.008.002	Sax
Mallet & Bell	Conce	rt Grar	nd RX	G.Pi	ano Stack 2	Wood- wind
Accor-		121.0	913.000		121.009.002	Synth Pad
Organ	Grand	Piano 121.0	Live 912.000	Hon	ky-Tonk RX 121.002.003	Synth Lead
Guitas	Gra	and Pia 121.0	no 903 . 000	Rag	time Piano 121.003.003	Ethnic Bass
Trumpet & Trbn.	P1	P2	P3	P4	J	Drum & SFX



to cycle between the pages.

The Sound Select window closes, and the main screen appears again, with the selected Sound assigned to the Upper 1 track.

	STYLE PLAY MT:	🖲 <no chord=""></no>
	S UnpluggedBallad1	Grand Piano Live
	L Unplugged E Meter: 4/4 L: 12 94	Dark Pad
vin-	P MID P MID 1 <no song=""> 2 <no song=""></no></no>	Strings Ens.2 GM
the 🖊 ars	S Perf: My Setting	Movie Strings 1
ted	STS 1	STS 3
the	Nylon Guitar STS 2	Trumpet & Muted STS 4
ick.	Distortion Gtr	Electric Piano
	STS Volume Pad Split	Sub Scale Mic

5 Play the Sound on the keyboard.



Note: Selection windows may automatically close after a selection. To do this, uncheck the "Display Hold" box in the Global > General Controls > Interface page. In this case, press the EXIT button only if you don't make any selection but want to close the window.

Playing two or three Sounds at the same time

You can layer all three Upper tracks and play them on the keyboard.



Please note how the **ELETE** icon appears in the Upper 2 and Upper 3 status boxes. These tracks will not be heard.

1 Touch the **EUTE** icon in the Upper 2 status box, to set the Upper 2 track to play.





After touching in this area, the **NUTE** icon disappears. The Upper 2 track will be set to play and will be heard.

2 Play the keyboard.



Note how the 'Dark Pad' Sound (assigned to the Upper 2 track) has been layered with the 'Grand Piano RX' (assigned to the Upper 1 track).

3 Touch the **ETTE** icon in the Upper 3 status box, to set the Upper 3 track to play.





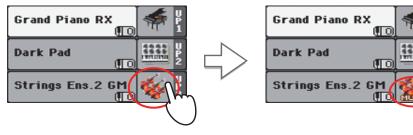
As above, after touching in this area, the intermediate icon disappears. The Upper 3 track will be set to play and will be heard.

4 Play the keyboard.



Note how the 'Strings Ens.2 GM' Sound (assigned to the Upper 3 track) has been added to the 'Dark Pad' (assigned to the Upper 2 track) and the 'Grand Piano RX' (assigned to the Upper 1 track).

5 Touch the bank icon in the Upper 3 status box, to mute the Upper 3 track again.



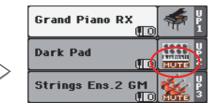
6 Play the keyboard.



Note how the 'Strings Ens.2 GM' Sound (assigned to the Upper 3 track) has been muted again. Only tracks Upper 1 and Upper 2 can be heard at this time.

7 Touch the bank icon in the Upper 2 status box, to mute the Upper 2 track again.





8 Play the keyboard.

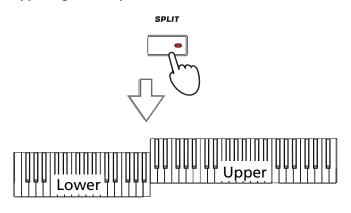


Note how the 'Dark Pad' Sound (assigned to the Upper 2 track) has been muted again. Only track Upper 1 can be heard at this time.

Playing different Sounds with your left and right hand

You can play a single Sound with your left hand, in addition to playing up to three Sounds with your right hand.

1 Press the SPLIT button to turn its LED on, and split the keyboard in the Lower (left hand) and Upper (right hand) parts.



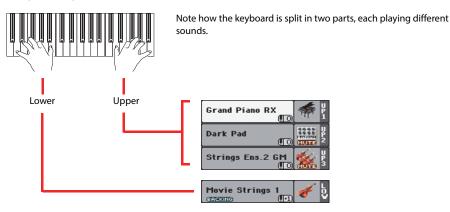
2 Be sure the Lower track is set to play.



If the Lower track is muted, touch its MUTE icon to make it disappear from this area.

If the Bass & Lower Backing function is turned on, and the Style is not running, the Lower track will always play.

3 Play the keyboard.

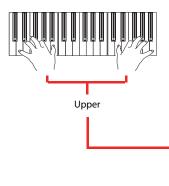


4 Return to the full keyboard playing mode by pressing the SPLIT button to turn its LED off.





5 Play the keyboard.



Note how the keyboard once again plays the Upper tracks over the entire length of the keyboard.

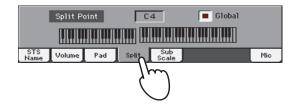


Changing the split point

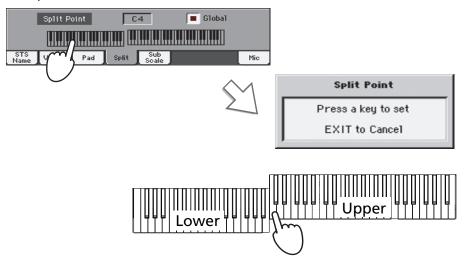
3

If you are not comfortable with the selected split point, you may set the split point to a different key.

1 Touch the Split tab to see the Split Point panel.



2 Touch the keyboard in the display, then play the lowest note of the Upper section on the keyboard.



() *Hint:* As an alternative, keep the SPLIT button pressed to open the Split Point dialog.

As an alternative, touch the Split Point parameter to select it, and use the VALUE DIAL to select the new split point.



When you change the split point, the "Global" parameter is automatically unchecked. This is because you are setting a "local" or "temporary" split point, and not the "global" one, used across the whole instrument.

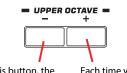
To change the "global" split point, go to the Global > Mode Preferences > Style page, and set the "Split Point" parameter.

You can save the "local" split point into a Performance, as described in the following pages (see "Saving your settings to a Performance" on page 48).

Raising or lowering the Upper octave

If all Upper tracks sound too high or too low, you can quickly change which octave they are playing in.

1 Use the UPPER OCTAVE buttons on the control panel, to transpose all Upper tracks at the same time.



Each time you press this button, the pitch will be lowered by one octave.

Each time you press this button, the pitch will be raised by one octave.

2 Press both UPPER OCTAVE buttons together to reset the octave to the value saved in the current Performance.





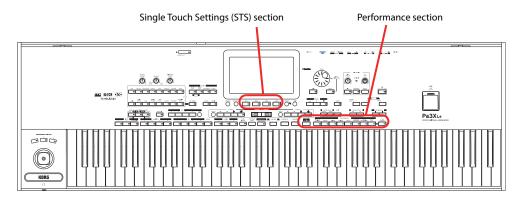
Selecting and saving Performances

Performances are the musical heart of Pa3XLe. Unlike selecting single Sounds, selecting a Performance will recall several Sounds at the same time, the needed effects and transpositions, plus many more parameters useful for playing in a musical situation (like the Assignable Switches). Performance can be considered a snapshot of the current situation.

You can save these settings to a Performance memory location. While many Performances are already supplied with the instrument, you can customize each of them to your own taste, and then save them in their customized version.

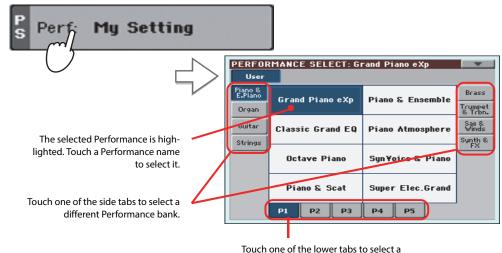
Similar to a Performance, but optimized for the Style or SongBook Entry it is associated to, you can also save your settings to a **Single Touch Setting (STS)**, which will store all the settings for the Keyboard tracks. Four STSs are supplied with each Style and SongBook Entry, and can be selected with the four dedicated buttons under the display.

Please note that **settings saved in the "My Setting" Performance are automatically selected when the instrument is turned on (exit from standby).** This means you can save your preferred startup settings to this Performance (see below for more information).



Selecting a Performance

1 Touch the Performance area in the display, to open the Performance Select window.



Touch one of the lower tabs to select a different Performance page.

Note: Style tracks are saved to a third object called the **Style Settings**.

Hint: You can also open the Performance Select window by pressing one of the buttons in the PERFOR-MANCE section. This will let you jump directly to the desired Performance bank. 2 Select one of the Performances in the Performance Select window, then press the EXIT button to close the window.



STYLE PLAY MT: 0	<pre> <no chord=""></no></pre>
s UnpluggedBallad1	Classic Piano 👘 🖞
L Unplugged E Meter: 4/4 L: 12 J= 94	Dark Pad
P (MID) P (MID) 1 <no song=""> 2 <no song=""></no></no>	Strings Ens.2 GM
S Perf: Classic Grand EQ	Analog Strings 2
STS 1	STS 3
Nylon Guitar STS 2 T	rumpet & Muted STS 4
Distortion Gtr	Electric Piano
STS Volume Pad Split	Sub Scale Mic

After pressing the EXIT button, the Performance Select window closes, and the main screen appears again. Sounds, Effects, and other settings, change according to the setting memorized in the selected Performance.

Note that Selection windows may automatically close after a selection. To do this, uncheck the "Display Hold" box in the Global > General Controls > Interface page. In this case, press the EXIT button only if you don't make any selection but want to close the window.

3 Play the keyboard.



Settings memorized in the selected Performance have been selected. Sounds, effects and other settings have been recalled.

Note: If the LED of the STYLE CHANGE button is

STYLE CHANGE

turned on, selecting a Performance may automatically select a different Style and its settings (Sounds, Effects for the Style tracks...)

Saving your settings to a Performance

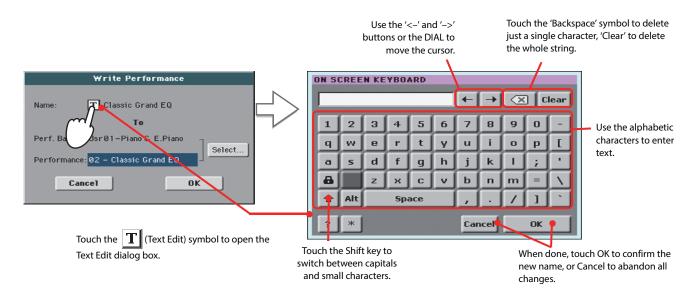
The Sounds and Effects assigned to the Keyboard tracks, together with the parameters you can access by pressing the MENU button while in Style Play and Song Play mode, can be saved into a single Performance, to be quickly recalled at a later time.

1 Keep one of the PERFORMANCE buttons pressed for about one second to open the Write Performance dialog box.

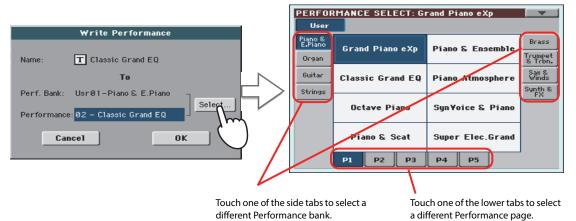
				PERFOR	MANCE =					
MY SETTING	PIANO & E. PIANO	ORGAN	GUITAR	STRINGS	BRASS	TRUMPET& TROMBONE	SAX & WOODWIND	SYNTH & FX		STYLE Change
		0	0	0	0		0	0	-	0
	(1")									
	\bigcirc	\sum			₩rite	e Performa	nce			
			-	Name:	T Clas	ssic Grand EQ	1			
						То				
				Perf. Bank:	Usr01-	-Piano & E.Pi				
				Performant	:e: 02 - C1	lassic Grand E		ielect		
				Ca	ancel	l	OK			

Hint: To open the Write Performance dialog box, you can also choose the 'Write Performance' command from the page menu.

2 If you like, you may assign a new name to the Performance.



3 Select a bank and Performance location in memory, where you would like to save the Performance.



The selected Performance location is highlighted. Touch a Performance's name to select it.

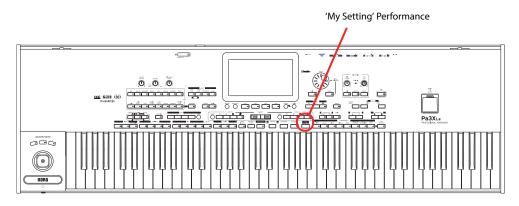
4 When you have edited the name to the Performance, and selected the target location, touch OK to save the Performance to memory (or Cancel to stop the operation).

₩rite Performance					
Name: T Classic Grand EQ					
То					
Perf. Bank: Usr@1-Piano & E.Piano					
Performance: 02 - Classic Grand EQ					
Cancel OK					

Warning: Saving a Performance to an already used location overwrites any existing data at that location. The old data are lost. Make a backup of all your important data.

Selecting and saving the "My Setting" Performance

There is a special Performance, where you can save your preferred settings for things like Keyboard Sounds, Effects, Transposition, Assignable Switches, a preferred Style. This Performance is **automati-cally selected when the instrument is turned on (exit from standby).** It is called the "My Setting" Performance.



Selecting the startup parameters (the "My Setting" Performance)

After having done some changes to the Sounds, transposition, or other parameters, you can return to the startup situation by pressing the MY SETTING button in the control panel.

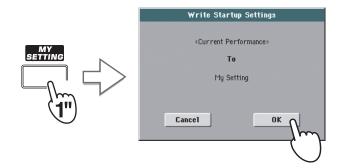
Press the MY SETTING button to recall the "startup" settings.



Saving the startup parameters into the "My Setting" Performance

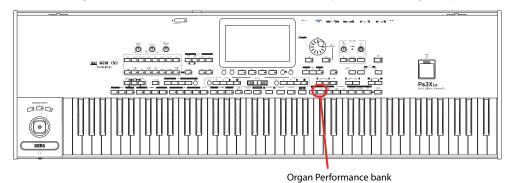
You can save the startup settings (Sounds and other settings, including most of the settings on the control panel and the selected Style) into this special Performance.

 Keep the MY SETTING button pressed for about one second, until the "Write Startup Settings" dialog box appears, then touch the OK button to confirm saving to memory.



Drawbars

A special type of Sounds in the Pa3XLe is the Drawbars. This Sound emulates the classic tonewheel organs of the past. You can drag the virtual drawbars on the display to adjust their position, and then save these settings to a Performance, that can be considered the equivalent of an organ's "preset".

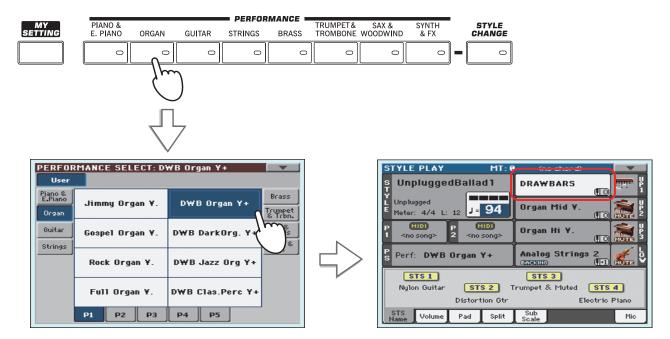


Choosing a Drawbars Preset

Here is how to select and use the Drawbars.

1 Press the ORGAN button in the PERFORMANCE section to open the Performance Select window, and choose the "DWB Organ Y+" Performance.

While you could assign the DRAWBARS Sound to an Upper track, choosing a Performance will also give you all the preset settings for the drawbars.



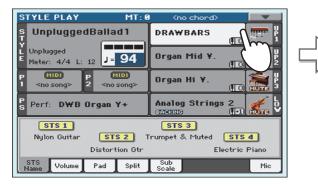
2 Play the keyboard to hear a realistic electro-magnetic organ sound.

Different drawbar settings may be stored with each Performance. So, selecting a different Performance will select different settings for the Drawbars Organ.

Editing the Drawbars Preset

You can edit the Drawbars settings memorized in the selected Performance, and save it to the same or a new Performance.

1 While in the main screen, touch the DRAWBARS Sound to open the Sound Select window, then touch the selected DRAWBARS Sound to open the Drawbars Setting page.

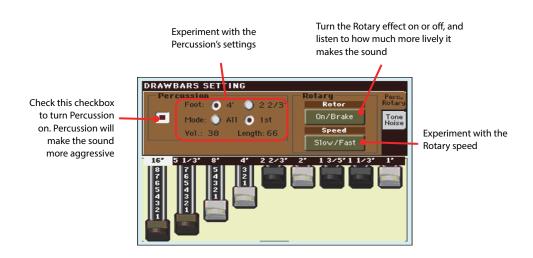


Factory	y Legacy GM User						
Piano	iun ^o	DRAW	BARS	Per	c. Orga	an 1	Brass
E. Piano	No.e	∩ ^{121.}	127.016		121.	010.017	Sax
Mallet & Bell	J	Lorgan	DNC	Perc	. Organ	1 2¥.	Wood- wind
Accor-		121.	013.018		121.	009.017	Synth Pad
Organ	Class	ic Pera	:.Org 012 . 017	Perc	. Organ	∎ 3¥ . 011.017	Synth Lead
Guitar							Ethnic
Strings & Vocal	Orga	n Low+ 121.	1 'Y. 933.016	Organ	16+51 121.	/3 ¥ . 036.016	Bass
Trumpet & Trbn.	P1	P2	P3	P4	P5	P6	Drum & SFX



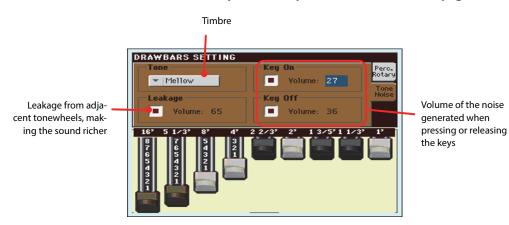


2 Drag the virtual sliders to change the various drawbar settings. Select different parameters in this page, and change their settings to see how each setting affects the sound.



Hint: As an alternative to dragging the virtual sliders to change drawbar values, you can touch a drawbar in the display and use the VALUE DIAL to change it.

3 Touch the "Tone/Noise" tab, and try the sound parameters of the second page.



- 4 When you have found some settings that you like, keep one of the Performance buttons pressed to open the Write Performance window, and save your settings to a Performance.
- 5 Press the EXIT button to go back to the main page.

Selecting and playing Styles

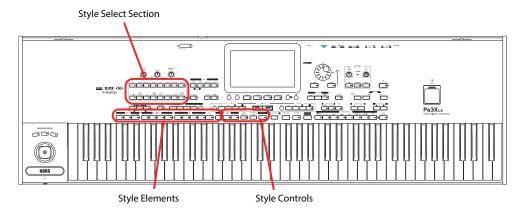
Pa3XLe is an *arranger*, i.e. a musical instrument providing automatic accompaniments, or *arrangements*. Each arrangement style is called, as a consequence, a *Style*.

A Style is made of several Style Elements (Intro, Variation, Fill, Break, Ending), corresponding to the various sections of a song. By selecting Style Elements, you can make your playing more varied and musical.

When selecting a Style, Sounds, Effects and various configuration parameters for the Style tracks are also selected. These are called the Style Settings. Four STSs are assigned to the STS buttons. Selecting a Style also selects the four Pads it contains. Pads are single sounds or single-track patterns, that can be triggered with the dedicated PAD buttons.

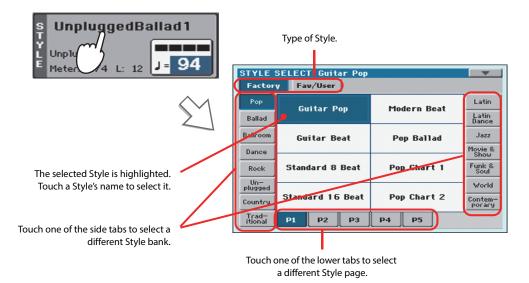
If the STS MODE LED is turned on, the first of the four Single Touch Settings (STS) associated to the Style is also selected, and Keyboard tracks, Effects and some other useful parameters are automatically configured.

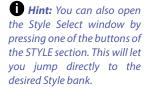
Use the Style controls to start or stop the Style.



Selecting and playing a Style

1 Touch the Style area in the display. The Style Select window appears.



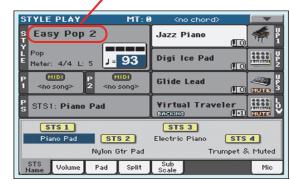




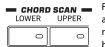
2 Select a Style from the Style Select window.



 After pressing the EXIT button, the Style Select window closes, and the main screen appears again, with the selected Style ready to go.



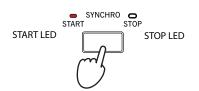
3 Be sure one of the Chord Scan modes is selected.



For chord scanning to work, either of both LEDs must be turned on. **Lower:** chords are recognized on the left of the split point; **Upper:** chords are recognized on the right of the split point; **Full (both LEDs on):** chords are recognized on the whole keyboard. **Off:** only the Drum track can be heard.

4 Press the SYNCHRO-START/STOP button to turn the START LED on.

This will turn the Synchro-Start function on, and let the accompaniment start as soon as you play a chord on the keyboard.



5 Play the keyboard.



When the Syncho-Start function is turned on, the Style starts playing as soon as you play a note or chord in the chord scan area. Play chords with your left hand, and the melody with your right hand. The arranger will follow your playing.

6 Press START/STOP to stop the Style.

START/STOP



• Note: You could simply press START/STOP to start the Style, but the Synchro-Start function allows you to make the Style start in sync with your playing on the keyboard. Therefore, it may be considered a "more musical" way of starting a Style.

Note: The chord scan area depends on the status of the SPLIT LED and the Chord Recognition parameter (see Global > Mode Preferences > Style).

Tempo

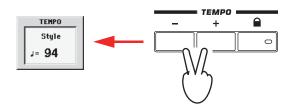
•

While a Tempo setting is saved with each Style or Performance, you can change it to be whatever you like. You can use either of the following two methods.

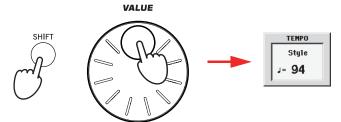
• Use the TEMPO + or – buttons to change the Tempo value.



Press the TEMPO – and + buttons together to recall the saved Tempo value.

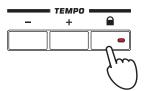


As an alternative, keep the SHIFT button pressed, and use the VALUE DIAL to change the Tempo. The selected tempo will be shown in a small window.



If you like to keep the currently selected Tempo value unchanged, turn on the LED of the TEMPO 🔒 (LOCK) button.

When the Tempo Lock function is turned on, the Tempo will not change when selecting a different Style (or a different Song in Song Play mode).



Hint: As an alternative to using the TEMPO buttons, hold the Tempo value in the display, then move your finger up/down or left/right (or change the value with the VALUE DIAL).

Intro, Variation, Fill, Break, Ending

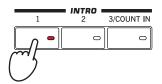
When playing Styles, you can select various "Style Elements" to cover the various sections of a song. A Style is made of three Intros (or two Intros and a Count-In), up to four basic patterns (Variations), four Fills, a Break, and three Endings.

1 Make sure the SYNCHRO-START LED is turned on (otherwise, press the button to turn it on).



Activating the Synchro Start function is not mandatory, but it might be handy to automatically start the accompaniment when beginning to play.

2 Press one of the INTRO buttons to set the corresponding Intro to play.

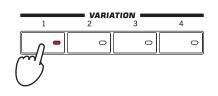


3 Play the keyboard.

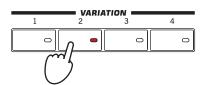


The Style starts with the selected Intro. When the Intro is completed, the basic pattern (selected Variation) starts to play.

4 While playing, press one of the FILL buttons to select a Fill.



5 Before the Fill ends, press one of the VARIATION buttons, to select a different variation of the basic pattern.



When the Fill ends, the selected Variation will start playing.

Note: You do not need to select a Variation during a Fill, since a Variation may already be automatically recalled at the end of the Fill.

The Variation will be selected, and will continue playing. Now, let's see an alternative way of selecting a Variation.

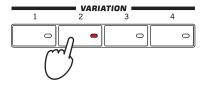
6 Be sure the LED of the AUTO FILL button is turned on.

When the Auto Fill function is turned on, a Fill is automatically performed before switching to a different variation.



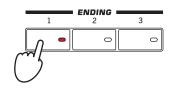
7 While playing, press one of the VARIATION buttons, to select a different variation of the basic pattern.

If you turned the Auto Fill function on in the previous step, a Fill will be performed before the Variation begins.



When the Fill ends, the selected Variation will start playing.

8 When you like to stop playing, press one of the ENDING buttons to stop the Style with an Ending.



When the Ending is finished, the Style automatically stops.

Single Touch Settings (STS)

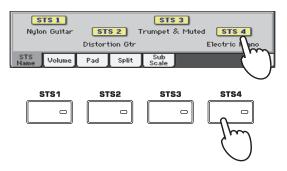
Each Style may come with up to four Keyboard track settings, called the **STS** (short for "Single Touch Settings"). STSs are very similar to Performances, but they are fine-tuned to the Style they are associated to.

If the STS MODE LED is turned on, STS #1 is automatically selected when choosing a Style. STS #1 is also recalled each time a SongBook Entry is selected.

1 In case it is not shown, touch the STS Name tab to see the STS Name panel.



2 Press one of the four STS buttons under the display, or touch the name of an STS in the STS panel in the display.



Note: You can also find four STSs with each of the Song-Book Entries. This allows for linking STSs to Songs. **3** Play the keyboard.

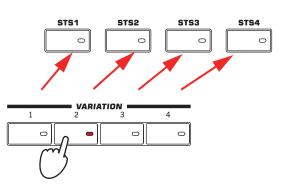


Settings memorized in the selected STS have been selected. Sounds, effects and other settings have been recalled.

- **4** Try all the other STSs, and see how settings change with each of them.
- 5 You can also link the STSs to the Variations. First of all press the STS MODE button, to make its LED flash.



6 Then press the various VARIATION buttons, and see how an STS is automatically selected when the corresponding Variation is selected.



7 Press the STS MODE again to turn its LED on (or off).

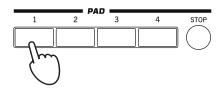
The Pads

Each Style or SongBook Entry can assign different sounds or patterns to the four PADS. These sounds or patterns can be played along with the Keyboard and Style tracks.

1 If you want to see which sounds or patterns are associated to the four Pads for the current Style, touch the Pad tab to see the Pad panel.

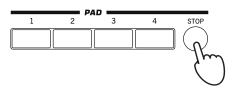


2 Press one of the four PADS to play the corresponding Pad.



Hint: You can open the Pad Select window to assign a different sound or pattern to the Pads, by pressing SHIFT + one of the PADs.

- **3** If the selected PAD triggers an endless pattern (for example, a guitar arpeggio), press the same PAD button again to stop it.
- **4** Select a different Style, and see how the sounds or patterns assigned to the PADS change.
- 5 Press more PAD buttons at once, to play two or more sounds or patterns at the same time.
- 6 Press STOP to stop all the Pads at the same time.



Adjusting the balance between the Style and the keyboard

Balancing between the Keyboard and Style tracks may be useful, to gently fade them and adjust their respective volume.

• While the Style is playing, use the BALANCE knob to balance between the Keyboard (KBD) and Style's Accompaniment (ACC) volume.



This knob also balances between the Keyboard and the Pad tracks. Also, it balances between the Keyboard and the Song tracks (in Song Play mode).

Adjusting the volume of the separate tracks

You can adjust the volume of each of the Style and Keyboard tracks, for example to soften the bass a little, or to make the keyboard solo louder.

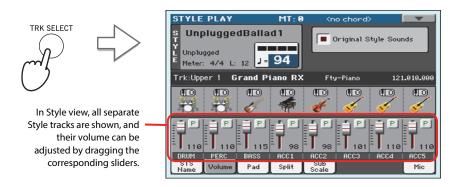
1 Touch the Volume tab to see the Volume panel.

STYLE PLAY MT: 0) <no chord=""> 📃</no>
s UnpluggedBallad1	Grand Piano RX 🛒 👫 🎽
L Unplugged E Meter: 4/4 L: 12 J= 94	Dark Pad
P MIDI 1 <no song=""> P MIDI 2 <no song=""></no></no>	Strings Ens.2 GM
Ps Perf: My Setting	Movie Strings 1 🎻 👌
Play Play Play 0	
DR-PERC ACCOMP BASS MIC-IN STS Volume Pad Split	LOWER UPPER3 UPPER2 UPPER1 Sub Scale Mic
\bigcirc	

2 Hold & drag the Virtual Sliders in the display to adjust each Keyboard track's volume.

STYLE PLAY MT: 0	🛛 🗠 Kno chord
s UnpluggedBallad1	Grand Piano RX 👘 🎽
L Unplugged Meter: 4/4 L: 12 J= 94	Dark Pad
P MIDI 1 <no song=""> P MIDI 2 <no song=""></no></no>	Strings Ens.2 GM
Ps Perf: My Setting	Movie Strings 1
Play Play Play	
DR/PERC ACCOMP BASS MIC/IN	LOWER UPPER3 UPPER2 UF
STS Name Volume Pad Split	Scale

3 To separately adjust each Style track, press the TRACK SELECT button to change the track's view.



Hint: As an alternative, you can change each track's volume, by touching a track's area to select it, then using the VALUE DIAL to change the volume.

Quick Guide

4 To return to the Keyboard Tracks view, press the TRACK SELECT button again.

Turning the Style tracks on/off

You may easily turn on or off any Style track while you are playing. For example, try muting all accompaniment tracks, while drums and bass continue to play.

1 Be sure the Volume panel is shown, or touch the Volume tab to show it.

STYLE PLAY MT: 0	<pre></pre>	
s UnpluggedBallad1	Grand Piano RX	🦛 🖥
L Unplugged Meter: 4/4 L: 12 J= 94	Dark Pad	
P (HID) 1 <no song=""> P (HID) 2 <no song=""></no></no>	Strings Ens.2 GM	🧱 V 3
P Perf: My Setting	Movie Strings 1 Brieking (1)	ې 🎺
Play Play Play 0		₽ 116
DR/PERC ACCOMP BASS MIC/IN STS Volume Pad Split	LOWER UPPER3 UPPER2	UPPER1 Mic
Name Volume Pad Spirt	Scale	
()		

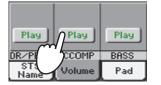
() Note: While in the Normal view of the Style Play mode, you can see Style tracks grouped in just three "grouped" tracks. To see each Style track as separate, individual tracks, just press the TRACK SELECT button.







2 While the Style is playing, touch the Play button to set the track to Mute.





Mute the ACCOMP track. All accompaniment tracks will go silent (apart from Drum, Percussion and Bass).

3 To set the tracks back to the Play status, touch the Mute icon on the muted track.



Set the ACCOMP track to Play. All accompaniment tracks will return to their original volumes.

- 4 To mute/unmute each single Style track, first press TRACK SELECT to switch to the Style Tracks view, then repeat the above procedure.
- 5 Press the TRACK SELECT button again to go back to the Normal view.

Adding harmony notes to your right-hand melody with the ENSEMBLE function

Chords played with your left hand may be applied to the right-hand melody.

1 Press the SPLIT button to turn its LED on and split the keyboard.

The Ensemble function only works in Split mode.



2 Press the ENSEMBLE button to turn its LED on.



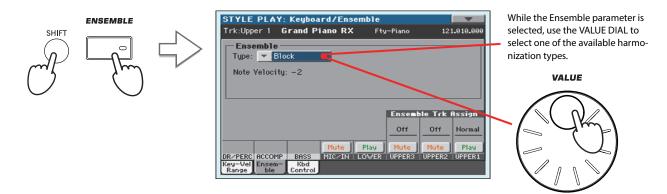
3 Play chords with the left hand and single notes in the right hand.



Notice how the right hand is automatically harmonized, according to the chords composed with your left hand.

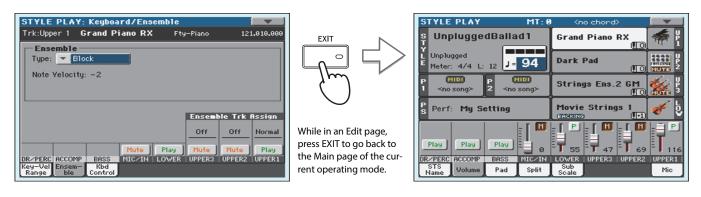
4 To select a different harmonization style, keep the SHIFT button pressed, and press the ENSEMBLE button to open the Ensemble page.

This is a fast 'shortcut' to recall this page. The longer procedure would have consisted in accessing the Edit mode by pressing the MENU button, touching the Keyboard/Ensemble section, and then going to the Ensemble page.



Quick Guide

5 When the right harmonization type has been selected, press the EXIT button to go back to the main page.



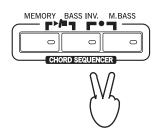
6 Press the ENSEMBLE button again to turn its LED off. The automatic harmonization will be turned off.



The Chord Sequencer

In case you need both hands free for playing a solo while a Style is playing, you can record a Chord Sequence and let Pa3XLe play the chords for you.

- **1** Press the START/STOP button to set the Style to play.
- 2 Press the BASS INV. and M. BASS (RECORD) buttons together to start recording.



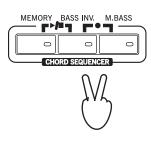
3 Start recording your Chord Sequence at the beginning of the next measure.

While recording, you will see a red flashing icon in the display.

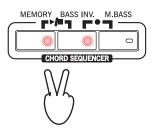
4 Play the chords in the chord scan area.

The chord scan area is under the Split Point if the SPLIT LED is turned on. Usually, it is over the whole keyboard if the SPLIT LED is turned off. The chord scan area also depends on the status of the Chord Recognition parameter (Global > Mode Preferences > Style).

5 When the Chord Sequence is done, press the BASS INV. and MAN. BASS (RECORD) buttons together again to stop recording.



6 Press the MEMORY and BASS INV. (PLAY/STOP) buttons to start playback.



The LED of the two buttons will start flashing. The Chord Sequence will be played back in loop starting from the next measure. Recorded chords will be sent to the arranger, and the Style will play with the recorded chords.

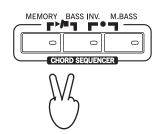
7 Play your solo part, while the Chord Sequencer plays the chords for you.

During Chord Sequence looping, you can freely select any Fill or Variation, as if you where playing chords with your hands.



Hint: You can avoid stopping the Chord Sequencer after recording, and immediately set the Sequence to play, as explained in the following step.

8 Press the MEMORY and BASS INV. (PLAY/STOP) buttons together again to stop playback of the recorded Chord Sequence.



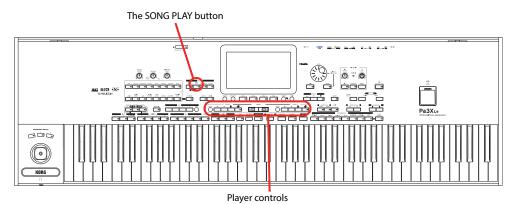
The last chord played by the Chord Sequence remains in memory. The Chord Sequence will remain in memory up until you record a new Chord Sequence, or you set Pa3XLe to standby.

Song Play

Pa3XLe is equipped with two onboard Players that can be run at the same time to mix different Songs. The Players can read Songs in Standard MIDI File (MID), Karaoke[∞] (KAR) and MP3 format.

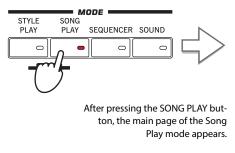
It may be of great interest to singers and guitar players to know that if a Standard MIDI File or an MP3 file contains lyrics and chords, they can be seen in the display. Lyrics can also be seen on an external video monitor. Lyrics in the graphical "+G" format are also supported.

In addition to lyrics and chords, with Standard MIDI Files and Karaoke files you can also see the score in traditional notation, as well as the markers, to quickly jump to any section of a Song.



Selecting a Song to play

1 Press the SONG PLAY button to switch to the Song Play mode.



SONG PLAY MT: 0) <no chord=""> 📃</no>	
P MID <no song=""> Meter: 4/4 M: J=120</no>	Grand Piano RX 🛒 👫 🎽	
P MID <no song=""></no>	Dark Pad	
2 Meter: 4/4 M: J=120 S UnpluggedBallad1	Strings Ens.2 GM	
Ps Perf: My Setting	Movie Strings 1 🎻 b	
STS 1 STS 3 Nylon Guitar STS 2 Trumpet & Muted STS 4		
Distortion Gtr	Electric Piano	
STS Volume Pad Split	Sub Juke Mic	

Hint: In Style Play mode, you can pre-select the Song to be assigned to the Player. This way, you will be ready to start it, as soon as you switch to Song Play mode.

STYLE PLAY	MT: 0	<no chord=""></no>
s Unplugged	Ballad1	Grand Piano R
Unplugged Meter: 4/4 L: :	12 J= 94	Dark Pad
C C C C C C C C C C C C C C C C C C C	<pre>min </pre>	Strings Ens.2
Perf: My Se		Movie Strings
S Pern: My Se	ting	CINTERING
STS 1		STS 3
3 -		GARGING

The Song area of the Style Play main page.

2 Touch the Player 1 area to open the Song Select window.

This window is very similar to the one you can see when pressing the MEDIA button on the control panel, and touching the Load tab to see the Load page. This page is, however, "filtered" to only show Song files.



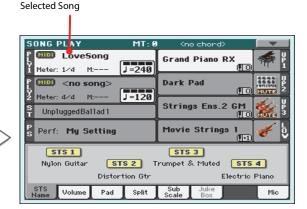
Hint: As an alternative, you can open the Song Select window by pressing the SELECT button in the PLAYER 1 section on the control panel.

3 Scroll through the list and select the Song to play.



4 When the Song is selected, touch the Select button to confirm your selection; this will automatically close the Song Select window.



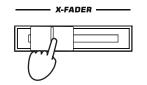


After touching the Select button in the display, the main page of the Song Play mode will appear again.

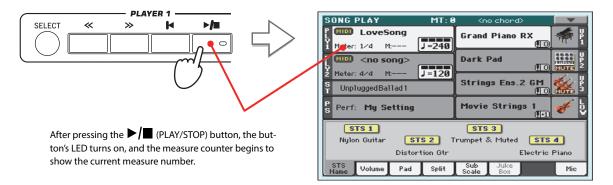
Playing back a Song

Once a Song has been selected, it may be played back by the Player.

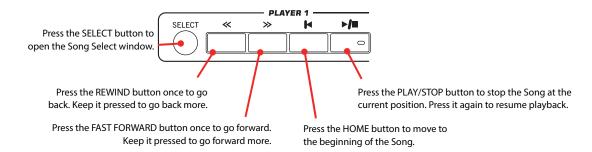
1 Be sure the X-Fader is completely moved to the left (toward Player 1).



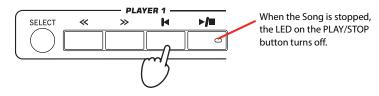
2 Press the ▶/■ (PLAY/STOP) button in the PLAYER 1 section to start playback.



3 Use the PLAYER 1 control section to control the Song's playback.



4 When you want to stop the song and go back to the beginning, press the I◀ (HOME) button.



Note: In any case, the Player will automatically stop when the end of the Song is reached.

Changing the tracks' volume

While playing back a Standard MIDI File, you may wish to change each track's volume, to create a mix "on the fly".

SONG PLAY MT: 0 LoveSong Grand Piano RX J=240 Meter: 1/4 Mr >> 123 Dark Pad Œ۵, J=120 Meter: 4/4 M:-Strings Ens.2 GM S UnpluggedBallad1 Perf: My Setting Movie Strings

Pad

🔟 <u>-</u> [🕑 - [

∠TN

Split

1 Be sure the Volume panel is shown, or touch the Volume tab to show it.

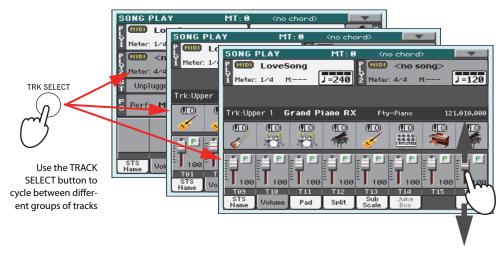
2 As seen for the Styles, you can hold & drag the Virtual Sliders on the display to adjust each track's volume. Use the TRACK SELECT button to cycle between track groups.

M

T

. 🚺 M

Mic



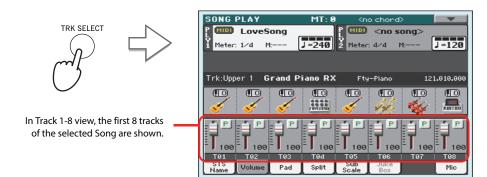
3 In Normal view, you can adjust each Keyboard track's volume.

SONG PLAY	MT: 0	l Knok	chord>	
P MID LoveSong	J=240	Grand P	iano RX (10	🦛 🖁
Constant Con		Dark Pa	d	
2 Meter: 4/4 M: S UnpluggedBallad1	J=120	Strings	Ens.2 GM	Market P 3
P Perf: My Setting		Movie S	trings 1	🎸 🖞
	■ ■ ■ ■	55 S		
STS Habres Bad	MIC/IN		PPER3 UPPER2	
Name Volume Pad	Split	Scale	Box	Mic

Keyboard tracks

Hint: As an alternative, you can change each track's volume, by touching a track's area to select it, then using the VALUE DIAL to change the volume.

4 Press the TRACK SELECT button once to see tracks 1-8 (Track 1-8 view).



5 Press TRACK SELECT once again to see tracks 9-16 (Track 9-16 view).

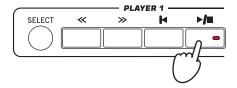
	SONG PLAY MT: 0 <no chord=""></no>
	P 💷 LoveSong P 💷 <no song=""></no>
	1 Meter: 1/4 M: J=249 2 Meter: 4/4 M: J=120
Jun	
	Trk:Upper 1 Grand Piano RX Fty-Piano 121.010.000
In Track 9-16 view, the second	
group of 8 tracks of the selected Song are shown.	T 100
	<u> </u>
	Name Volume Pad Split Sub Juke Mic Mic

6 Press TRACK SELECT again, to return to the Normal view (Keyboard tracks).



Keyboard tracks

7 Press the ►/■ (PLAY/STOP) button to start the Song.



8 While listening to the Song, switch from Normal view to Track 1-8 and Track 9-16 view, to see which tracks are playing.

To see if a track is playing, look at the label with its name, and see if it is changing color.

.

Touch each track's channel strip, to see each track's detail in the Track Info line.

Trk	:Upper 1 Gra	and Piano RX	Fty-Piano	121.010.000	
	Selected track	Assigned Sound. Touch it open the Sound Select w		k Program Cha	ange

Also, you can see which type of Sound is assigned to each track in the Sound area of the Track 1-8 and Track 9-16 views.

SONG PLAY MT: 0 (no chord) Development Heter: 1/d M	
	Octave Transpose Sound bank icons. Touch to open the Sound Select window.

Turning the Song tracks on/off

While playing back a Standard MIDI File, you may wish to mute one or more tracks, for example to sing along with the Song, or play an instrumental part live on the keyboard.

To mute/unmute Song tracks you simply touch the Play/Mute icon in the Volume panel.

Soloing a track

Opposite to the above, you may want to make a single track of a Standard MIDI File play alone. This is called the Solo function.

- 1 While the Song is playing, keep the SHIFT button pressed and touch the track you want to listen to in Solo mode.
- 2 To set all tracks back to the Play status, keep the SHIFT button pressed again, and touch the track that is currently in Solo mode.

Please remember that you can also use the Solo function in Style Play and Sequencer mode. The Solo command can also be selected from the page menu.

Removing the Melody track from a Standard MIDI File or the Lead Vocal from an MP3 file

If you want to sing along with a Song (in Standard MIDI File or MP3 format), you can remove the Melody track or the Lead Vocal from the Song. Please note that removing the Lead Vocal from an MP3 file may be more or less effective, depending on the Song.

Programming the Assignable Switches

1 Program the Assignable Switches as the Song-Melody and Vocal Remover switches.

Press the MENU button, and choose the "Pad/Assignable Switch" section. Then touch the Switch tab to open the "Switch" page. While in this page, assign the Song-Melody function to the ASSIGNABLE SWITCH 1, and the Vocal Remover function to the ASSIGNABLE SWITCH 2:

SONG PLAY: Pad / Assignable S⊎itch	
Assignable Switch	_
Song-Melody Mute	
Switch 2 Vocal Remover On/Off	
Switch 3	
▼ Off	
Pad Switch	

- 2 Press the EXIT button to return to the main page of the Song Play mode.

Using the Assignable Switches with a Song

- 1 Assign a Song (either in Standard MIDI File or MP3 format) to Player 1.
- 2 Start Player 1.
- 3 Press the ASSIGNABLE SWITCH 1 to mute the Melody track, or the ASSIGNABLE SWITCH 2 to activate the Vocal Remover, and remove the Melody track or the original lead singer's voice.

Listen how the Melody track disappears. If it is the wrong track, continue to the instructions below to select a different track.

Or, listen to how the original lead singer's voice is reduced or totally removed.

Note: The Assignable Switches' assignment can be saved into each Performance or STS.

Hint: You can open this page by keeping the SHIFT button pressed and pressing one of the ASSIGNABLE SWITCHES.

- 4 When done, you can press the ASSIGNABLE SWITCH 1 to unmute the Song's Melody track and let the original MIDI instrument play the Melody line again, or press the ASSIGNABLE SWITCH 2 to deactivate the Vocal Remover and let the original lead singer's voice appear again.
- 5 Stop the Player.

Choosing a different Melody track

You can choose a different Melody track, in case the Standard MIDI Files does not use a standard configuration of tracks.

1 Keep the SHIFT button pressed and press the SONG PLAY button to open the Global > Mode Preferences > Song Play & Sequencer page.

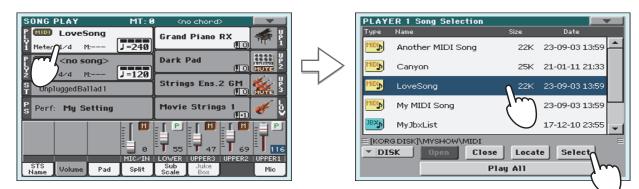
GLOBAL: Mode Preferences						
SMF Melody Track:	Track 4					
Drum&Bass Mode - Drum Tr:	▼ Track 10					
Drum&Bass Mode - Bass Tr:	▼ Track 2					
Fast Play	Save Trk & FX Setup					
Style Song Media						

- 2 Choose a different Melody track.
- 3 When done, press EXIT to return to the main page.

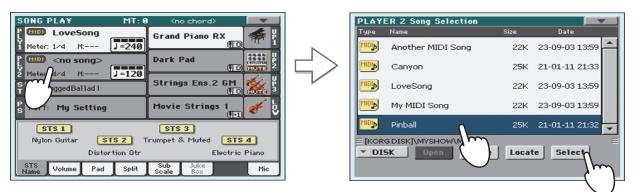
Mixing two Songs

You can select two Songs at the same time, and mix them by using the X-FADER slider.

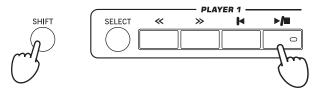
1 Touch the Player 1 area to open the Song Select window and select the Song to be played by Player 1. Touch Select to confirm.



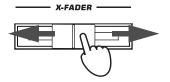
2 Once a Song is assigned to Player 1, touch the Player 2 area once to select it, and a second time to open the Song Select window. Select a Song to be assigned to Player 2, and touch Select to confirm.



3 Keep the SHIFT button pressed, and press any of the two ►/■ (PLAY/STOP) buttons, to start both Players at the same time.



4 During playback, move the X-Fader, to mix between the two Songs.



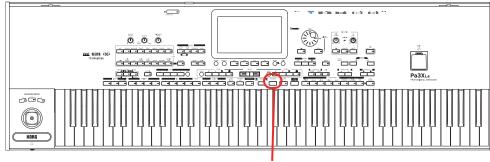
- **Hint:** You don't need to start both players at the same time. You can start the first Song then start the second one when the first one is near to the end. This way, you can use the X-FADER slider to gently crossfade between the end of one Song and the beginning of the following one.
- 5 During playback, you may control each Player separately, by using the dedicated Player controls.
- 6 Press the relevant ▶/■ (PLAY/STOP) button to stop the corresponding Player.

The SongBook

One of the most powerful features of Pa3XLe is the onboard music database, that allows you to organize your Styles and Songs for easy retrieving. Each Entry of this database may include the artist, title, genre, number, key, tempo, and meter (time signature) of a specified song. When selecting one of the Entries, the associated Style, Standard MIDI File or MP3 file – as well as the Style Play or Song Play mode – is automatically recalled. A Voice Processor Preset is also recalled.

In addition to helping you organize your shows, the SongBook allows you to assign up to four Pads, and up to four STSs to each Entry. Also, you can link a text file to any Entry, to be used as the Lyrics of a song, even if there are no Lyrics events in the associated Standard MIDI File or MP3 file, or if you prefer to play the song live with the backing of the Styles.

You can add your own Entries to the SongBook, as well as edit the existing ones. Korg already supplies some hundred Entries as standard. Furthermore, the SongBook allows you to create various custom lists, that may suit your different types of show.

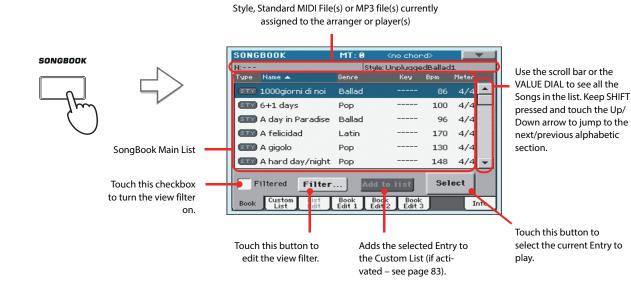


The SONGBOOK button

Selecting the desired Entry from the Main List

A large database is already included with the instrument, and you can later customize it. You may browse through this database in a variety of ways.

1 While you are in Style Play or Song Play mode, press the SONGBOOK button to open the SongBook window.



2 Browse through the Entries.

Icons in the Type column will help you identify the type of the Entry. The Genre column is shown by default, but you can switch to the Artist column (see "Displaying Artist or Genre" below).

3 When the Entry you are looking for becomes visible in the display, select it and touch the Select button in the display.

After selecting an Entry, the corresponding Style, MID, KAR or MP3 file will be recalled, together with the relevant operating mode (Style Play or Song Play). Up to four STSs and four Pads will also be recalled. Any TXT file associated with the Entry can be seen in the Lyrics page. A Voice Processor Preset is also recalled.

The selected Style, MID, KAR or MP3 file will be shown in the top area of the screen.

Displaying Artist or Genre

For space matters, either the Genre or Artist column can be seen in the display. You cannot see both at the same time.

1 Touch the page menu icon to open the page menu.

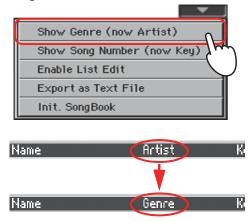


Note: The Artist and Key fields of all supplied Entries have been intentionally left empty.

2 Choose Show Artist (now Genre) to switch from Genre to Artist in the List view. The Artist column will be shown.



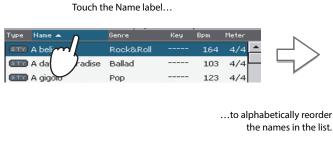
3 Open the page menu again, and choose the Show Genre (now Artist) item. The Genre column will be shown again.



Sorting Entries

You can change the order of the Entries shown in the display.

1 You can change the sorting order by touching one of the labels in a list of names.



N:			Style: Unp	olugge	dBallad	1
Туре	Name 🔺	Genre		Кеу	Bpm	Meter _
STY	1000giorni di noi	Ballad			86	4/4
STY	6+1 days	Рор	-		100	4/4
STY	A day in Paradise	Ballad	-		96	4/4
STY	A felicidad	Latin	-		170	4/4
STY	A gigolo	Рор	-		130	4/4
STY	A hard day/night	Рор	-		148	4/4
Filtered Filter Add to list Select						

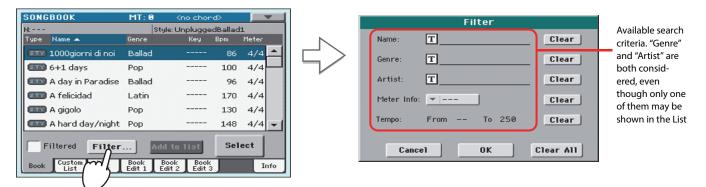
You can do the same by touching the Type, Name, Genre, Artist, Key, Number, Tempo or Meter label.

2 Each time you touch the same label again, the order changes between ascending and descending.

Searching for Entries

The SongBook database may be really huge. You can, however, look for (say) specific artists or song titles, using the filtering functions.

1 Touch the Filter button in the display, to open the Filter dialog box.



2 Touch the **T** (Text Edit) button next to the search criteria (even more than one) you want to enter.

For example, you may want to find all songs containing the word "love" in the title (in any position in the string). If so, select the 'Name' criterion, and enter the word 'love'. Capitals are not relevant for the search.

Filter		ON SCREEN KEYBOARD	
Name: Clear		Love	← → 🗶 Clear
Genre: Clear	$ \leq \rangle$	1 2 3 4 5 6	57890-
Artist: T Clear		qwoert y	uiop[
Meter Info: Clear	-	as/mfgl	ı j k l ; '
Tempo: From To 250 Clear	-		/ b n m = \
Cancel OK Clear All		Alt Space	/ 1 `
		? *	Cancel OK

3 Touch OK in the display, and close the Text Edit dialog box. The entered text is now the search criteria.

ON SCREEN KEYBOARD		Filter
Love		Name: TLove Clear
1 2 3 4 5 6	7890-	Genre: T Clear
qwerty	u i o p [Artist: TClear
asd fgh	j k l ; '	Meter Info: Tear Clear
B Z X C V	b n m = χ	Tempo: From To 250 Clear
Alt Space	, , / 1	
? *	Cancel OK O	Cancel OK Clear All

4 Touch OK to close the Filter dialog box and return to the SongBook page.

Once the Filter dialog box has been closed by touching OK, the Filtered check box is automatically checked, and the filter is activated. Only Entries matching the entered criterion are seen in the Main List.

SONG	BOOK	MT: 0) <r< th=""><th>no chor</th><th>-d>0</th><th></th><th>•</th></r<>	no chor	-d>0		•
N:			Style: Gu	uitar Po	Р		
Туре	Name 🔺	Genre		Кеу	Bpm	Meter	
STY	Could you beloved	Regga	e		102	4/4	*
STY	Crazy little love	Rock'ı	nRoll		155	4/4	
STY	Feel love power	Rock			123	4/4	
STY	Found my love	Disco			126	4/4	
STY	Half time lover	Рор			175	4/4	
STY	I'm out of love	Рор			120	4/4	-
Filtered Filter Add to list Select							
Book	Custom List List Edit	Book Edit 1	Book Edit 2	Book Edit 3		I	nfo

5 To see the whole SongBook database again, touch the Filtered check box again, to make the check mark disappear.

Adding Entries

You can add your own Entries to the SongBook database.

- **1** Go to the Style Play or Song Play mode, depending on the type of Entry you want to add to the SongBook database.
- 2 Select the Style, Standard MIDI File or MP3 file to be added to the SongBook.

Assign the Song to Player 1 (only Songs assigned to Player 1 will be saved to the SongBook Entry.

3 Edit the Keyboard and Style tracks the way you prefer, by selecting different Sounds and Effects, or editing any other relevant parameter.

Please note that changes to Standard MIDI File tracks will not be saved as SongBook data. Only the data included in the Standard MIDI File will be used.

- 4 Choose a Voice Processor Preset.
- 5 When ready, keep the SONGBOOK button pressed for about one second to create a new SongBook Entry with the current settings.



6 Touch the <u>T</u> (Text Edit) button to assign a name to the Entry, then touch OK to save the Entry to the SongBook database.

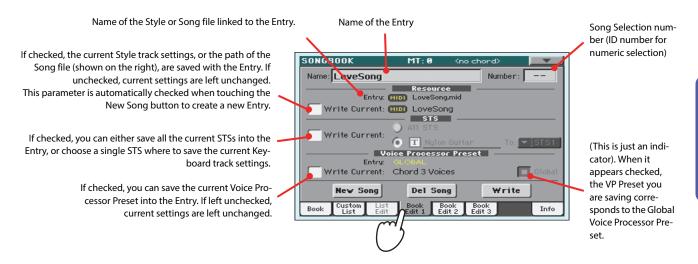
Editing the Entries

You can edit any SongBook Entry and customize it according to your taste. When done, you can overwrite the current Entry or save it as a new Entry.

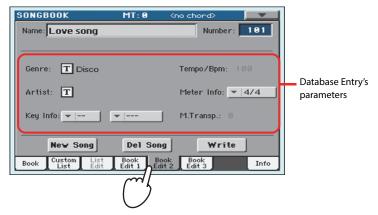
1 Press the SONGBOOK button to access the SongBook pages.

2 Touch the Book Edit 1 tab to see the Book Edit 1 page and see the linked Musical Resources.

While in the Book Edit 1 page, you will be able to see the name of the selected Style or Song, and choose whether to replace them or not.



3 When done with this page, touch the Book Edit 2 tab to see the Book Edit 2 page and edit the SongBook database details.



4 Touch the **T** (Text Edit) button next to the field(s) you want to edit. Set all the other parameters.

You can write the Genre and Artist name. Select the Meter (Time Signature) and Key of the Song. You can specify a Tempo value matching the Song's Tempo by using the TEMPO controls, and a Master Transpose value by using the TRANSPOSE controls on the control panel.

(i) Note: The Master Transpose might not change, if a Lock is preventing it. See Global > General Controls > Locks.

5 When done with this page, touch the Book Edit 3 tab to go to the Book Edit 3 page, where you can and set the Synchro and Memory parameters, and link a text file to the Entry.

	SONGBOOK	MT: 0	<no chord="">0 📃 💌</no>
	Name: A believer		Number:
	Entry Resource	: STY Open R	Rock 2
_	Synchro Start: 💌 🛛	nchanged	Linked *.TXT
	Synchro Stop: 💌 U	nchanged	
	Memory: 🔽 🚺	nchanged	Reset Browse
	New Song	Del So	ng Write
	Book List Edit	Book B	ook Book dit 2 Edit 3 Info
		(
		`	
		Name: A believer Entry Resource Synchro Start: V Synchro Stop: V Memory: V New Song	Name: A believer Entry Resource: Tr Open R Synchro Start: V Unchanged Synchro Stop: V Unchanged Memory: V Unchanged New Song Del Son Custom List Book B

Text file linked to the Entry. This text will be seen in the same way of ordinary Lyrics in the display (or in the external monitor).

6 After having filled up all the desired fields (be as comprehensive as you can), touch the Write button in the display to open the Write dialog box.

SONGBOOK MT: 0 <no chord="">0</no>	1	Write Song
Name: A believer Number:		New Song Name: T LoveSong
Entry Resource: STY Open Rock 2 Synchro Start: VInchanged Linked *.TXT		Rename/Overwrite: LoveSong
Synchro Stop: 💌 Unchanged		○ New Song
Memory: Unchanged Reset Browse		
		Cancel OK
New Song Del Song Write O		
Book Custom List Book Book Book List Edit 1 Edit 2 Edit 3		
	-	

7 Touch the <u>T</u> (Text Edit) button to assign a name to the Entry, then touch OK to save the Entry to the SongBook database.

Select Rename/Overwrite to replace an existing Entry. This option is automatically selected when editing an existing Entry; it cannot be selected when saving a new Entry. **Warning: the older Entry** will be deleted!

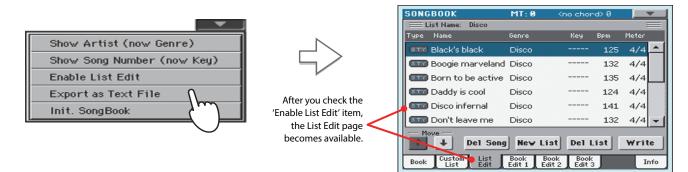
Select New Song to add a new Entry to the SongBook database. This option is automatically selected when a new Entry has been created (by touching the New Song button). Entry's name. By default it is the same name of the associated Style, Standard MIDI File of MP3 file. The name can be up to 16 characters long.

Wri <mark>te Song</mark>
New Song Name: T LoveSong
💗 Rename/Overwrite: LoveSong
New Song
Cancel OK

Creating a Custom List

You can create several Custom Lists in the SongBook, to make a set of Entries suitable for your various shows. Before starting a new Custom List, be sure you have added all needed Entries to the Song-Book main database (see "Adding Entries" above).

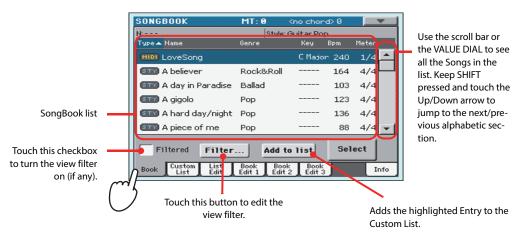
1 While in SongBook mode, open the page menu and check the 'Enable List Edit' item.



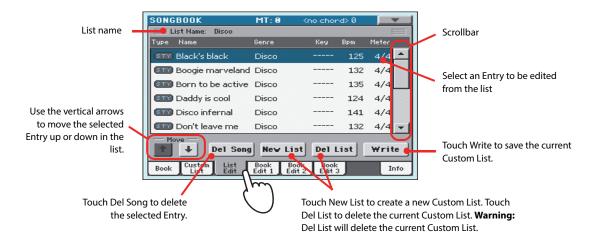
2 Select a Custom List to be edited.

To edit an existing list, touch the Custom List tab to open the Custom List page, and select one of the available Custom Lists. To create a new list, touch the List Edit tab to open the List Edit page, and touch the New List button to create a new, blank list.

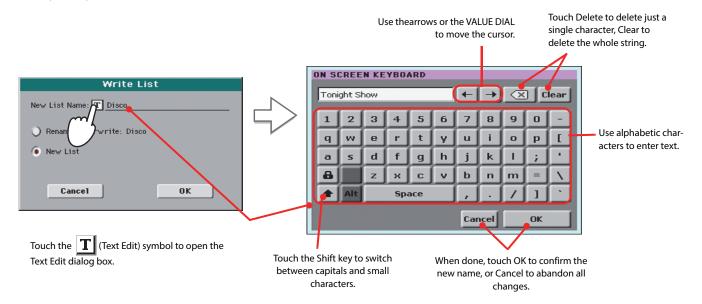
3 Touch the Book tab to open the Book page and see the full database. Use the various sorting, searching and filtering options (seen above) to find the Entries you are looking for. Touch the Add to List button when the desired Entry has been selected.



4 When finished adding Entries to the Custom List, touch the List Edit tab to go to the List Edit page, and use the various commands to edit the list.



5 When the Custom List is ready, touch the Write button in the display to save it to memory. Assign a new name to the Custom List.



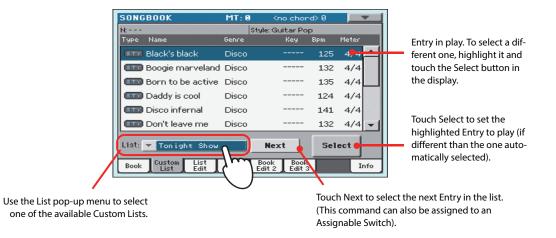
6 When finished editing the Custom List, open the page menu and uncheck the 'Enable List Edit' item.

Selecting and using a Custom List

After having created one or more Custom Lists, you can select one and use it for your show.

1 Touch the Custom List tab to select the Custom List page.

2 Use the List pop-up menu to select one of the available Custom Lists.



3 Select one of the Entries in the list (it turns blue), then touch the Select button in the display to confirm selection (the selected Entry turns green). Press the PLAY button to start playing back the selected Song.

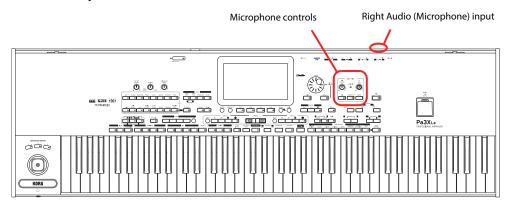
Using the SongBook with external software

Additional software has been created to work with the SongBook. You can use Korg's own SongBook Editor to edit single entries, the SongBook database and the Custom Lists on a Windows PC. You can also use BauM Software's SongBook+ for iPad, or Zubersoft's MobileSheets for Android, to synchronize the SongBook entries with a tablet, and read lyrics and sheet music on the wider tablet display.

Other software is under development. Please check our web site regularly, for news about their release.

Singing with a microphone

Pa3XLe features a high-quality microphone input for a dynamic microphone. It also features a powerful digital voice processor, based on technologies developed by TC Helicon, including dedicated effects and three-part harmonization.

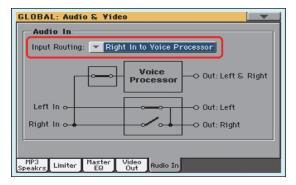


Connecting a microphone

To sing along with the Pa3XLe, you must first connect a dynamic microphone to the RIGHT audio input (the one that goes into the Voice Processor).

1 Press the GLOBAL button, touch the "Audio & Video" button in the display, then touch the Audio In tab to reach the "Audio In" page.

Be sure the "Input Routing" is set to "Right In to Voice Processor".



- 2 Press the EXIT button to return to the main screen.
- **3** Turn the Microphone input off by using the dedicated MIC on/off switch on the control panel, and lower the MIC VOLUME knob all way down.

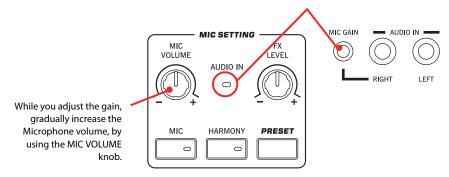


Note: Keeping the microphone level low helps avoiding feedback. Feedback is caused by audio generated by the Pa3XLe, returning to the audio circuitry via the microphone.

4 Connect a microphone.

5 Turn the MIC switch on, and slightly increase the MIC VOLUME level. Sing into the microphone, and adjust the MIC GAIN until you achieve the correct settings.

Adjust the input level by using the MIC GAIN knob next to the RIGHT audio input. Sing into the microphone, and watch at the AUDIO IN LED on the control panel – it ought to stay green. If it goes orange too often (or even red), turn down the input gain; if it turns off too often, increase the input gain. No hint of distortion should be heard in the audio system when you sing.



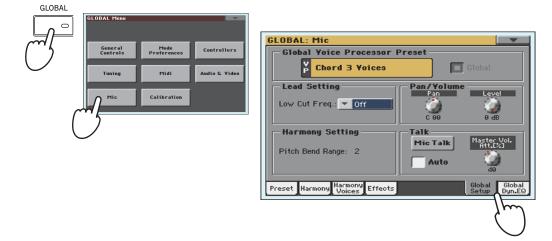
6 When the AUDIO IN LED shows the correct input level, use the MIC VOLUME knob to set the microphone volume in the mix.

Setting up your voice tone

You can add equalization, compression and gate to the microphone signal, to make your voice tonally pleasant and dynamically even. While these effects cannot be considered a replacement for some good training, they can fix a few common problems in a live context.

In case your voice is "boomy", go to the Global > Mic > Global Setup page, by pressing the GLOBAL button, then touching the Mic button in the display, and then (if it is not selected) the Global Setup tab.

The Global Setup page appears in the display.



2 To filter out the "boominess", use the "Low Cut Freq." parameter and remove some bass frequencies.

Start with the lowest frequency, and then try to up in case it does not solve the problem. In some cases, boominess can be solved by singing a bit farther from the microphone.



Hint: You can keep the SHIFT button pressed, and press the MIC button, to jump

to the Global Mic Setup page.

Quick Guide

3 Then, touch the Global Dyn./EQ tab and adjust the level and tone of your voice.

The Global Dynamics/EQ page appears.

Assign Uyn.: Lead Uyn.: Lead Uyn.: Lead Uyn.: Lead Uyn.: Lead Uyn.: Co Uyn.	GLOBAL: Mic	
Dyn - EC Lead Harmony Delay Freq. 1.6 KHz Gain 0		Thres Ratio Gate
Preset Harmony Harmony Effects Global Global Opin.EQ	Dyn – EG Lead Harmony Delay	Q 3.2 Freq. 1.6 KHz 6.5 KHz 10 KHz Gain
	Preset Harmony Harmony Effe	cts Global Global Setup Dyn.EQ

4 Adjust the Compression and Gate settings for your voice.

Adjust the Compressor's Threshold and Ratio parameters, so that your voice sounds full and even. Use the Gate control to reduce the risk of feedback and the amount of environmental noise (from other musicians on stage, from the audience...).



5 Then adjust the Equalization settings.

Use the EQ controls to adjust your tone. Increasing the High band gain adds an airy brightness, or "sizzle" to your voice; it can also increase sibilance. Increasing the Low band gain gives more "body" to your voice, but it can also increase "mud" due to the proximity effect from singing closely into a cardioid microphone. Increasing the Mid band gain increase the presence of your voice in the mix, but it can also make it sound a bit nasal.



- 6 Press the EXIT button to return to the main page.
- 7 Since dynamics and EQ can alter the volume level, adjust the volume levels again with the MIC VOLUME knob.



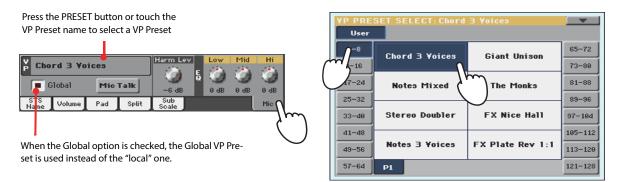
Choosing a Voice Processor Preset

You can add several effects to your voice, and you can set them up quickly through the Voice Processor Presets. These are memories containing all the settings for the Voice Processor effects. You can customize these memories at will.

1 Press the PRESET button in the MIC SETTING sections, and choose one of the Presets from the VP Preset Select window.

Voice Processor Presets (VP Presets) are settings for the various Voice Processor effects. By selecting a Preset, all processing parameters may change.

While a Global VP Preset is assigned globally, a "local" VP Preset can be assigned to each Performance, Style or SongBook Entry. When selecting one of these elements, the VP Preset may change, changing the type of processing applied to your voice. You can choose a VP Preset in the Mic tab of the main screen.



- 2 Sing into the microphone to listen to the effects.
- 3 Adjust the level of the Reverb or Delay effect, by using the FX LEVEL knob in the MIC SETTING section of the control panel.



4 Choose a different Preset, and listen to how the effects have changed.

Applying harmony to your voice while playing with the Styles

You can let Pa3XLe add automatically-generated harmonies to your lead voice, with up to three backing voices. Each VP Preset may contain a different harmonization style (for example, changing the number of voices, or the way notes are reveiced from the keyboard, a Style or a Song).

Here, we will use a VP Preset set to sing over a Style.

- **1** Press the STYLE PLAY button to go to the Style Play mode, and choose the desired Style.
- 2 Select the VP Preset "Chord 3 Voices".

This VP Preset expects you play chords, and receives notes from the Chord Scan area of the keyboard (the Harmony Mode is "Chord").

3 Play some chords, to let the Voice Processor create new voices based on them, and sing along with the chords you play on the keyboard.

Harmonizing will add chord notes to the note you are singing.

- **4** Stop the Style.
- **5** Press the HARMONY button again, to turn its LED off.

Applying harmony to your voice while playing with a Song

Harmony notes can be received from a Song's track. Here is how to use a VP Preset set to sing over a Song.

- **1** Press the SONG PLAY button to go to the Song Play mode, and choose the desired Song.
- 2 Select the VP Preset "Notes 3 Voices".

This VP Preset expects notes from Track #5 of the Standard MIDI File (the Harmony Mode is "Notes"). To choose a different track keep the SHIFT button pressed and press the HARMONY button to see the Harmony page. Use the "Song Control" parameter to choose a different track.

- 3 Sing along with the Song, and let the Voice Processor create new voices based on the Harmony track of the Song.
- 4 Stop the Song.
- 5 Press the HARMONY button again, to turn its LED off.

() Note: You can also use this VP Preset in Song Play mode, and play harmony notes in the Chord Scan of the keyboard.

Note: You can also use this VP Preset in Style Play mode, and play harmony notes over the full keyboard.

Balancing the voice, effects and tracks level

When all effects have been set, you can balance your voice against the effects, the Styles and the Songs.

- 1 If you like, start a Style or Song.
- 2 Adjust the microphone's final volume by using the MIC VOLUME knob.

The position of the MIC VOLUME knob is not saved to memory, so it remains consistent when selecting different Styles, Performances, Songs or Voice Processor settings.

3 If you are using the Harmony function, adjust the level of the harmony voices by using the "Harmony Level" parameter in the Mic panel of the main page.

By default, this control is also assigned to the ASSIGNABLE KNOB.

	rd 3 Yo Nobal	nices Mic	Talk	Harm Lev	Ę	Low	Mid	Hi O dB
STS Name	Volume	Pad	Split	Sub Scale	/			Mic

4 Set the voice effects' level by using the dedicated FX LEVEL knob.

Soloing your voice (Talk)

Sometimes, during a live show, you might like to talk to your audience. Use the Talk function to attenuate the music, and let your voice pass through clean and clear.

- 1 While in the main page of the Style Play or Song Play mode, touch the Mic tab to see Voice Processor's settings.
- 2 During playback, turn the Talk function On.



3 Sing or talk into the microphone.

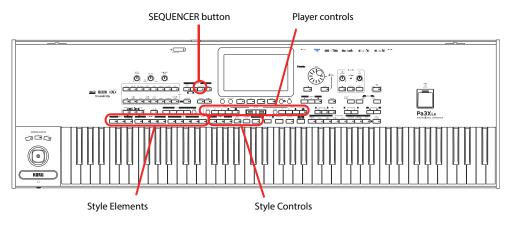
You'll hear that then background music has been made softer, while your voice will be heard *loud and proud*.

4 When done, turn the Talk function Off.

The background music returns to the original volume.

Recording a new Song (Standard MIDI File)

There are several ways to create a Song with Pa3XLe. The easiest and fastest is to use the Styles to record what you are playing on the keyboard, while the arranger gives you the accompaniment tracks.



Preparing the Style and Sounds

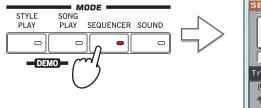
Before accessing the Record mode, we suggest you prepare the Style and Sounds with which to record your Song.

- 1 Select a Style with which you want to record.
- 2 Select the Sounds by choosing a Performance or STS.

That's all! You are ready to access Record mode.

Accessing the Backing Sequence (Quick Record) mode

1 Press the SEQUENCER button to switch to the Sequencer mode.



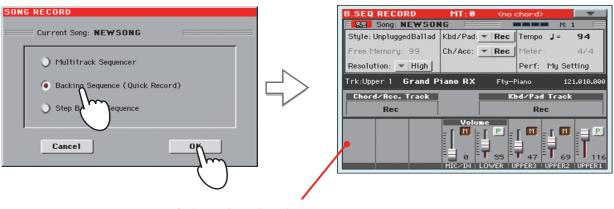
After pressing the SEQUENCER button, the main page of the Sequencer mode appears.



2 Press the RECORD button to open the Song Record Mode Select dialog box.

		SON	NG RECORD
RECOR			Current Song: NEWSONG
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	4		Multitrack Sequencer
$\bigcirc$			O Backing Sequence (Quick Record)
			Step Backing Sequence
	Press the RECORD button, to		
	open the Song Record Mode Select dialog box		Cancel OK

3 Select the Backing Sequence (Quick Record) option and touch OK to enter the Backing Sequence Record mode.

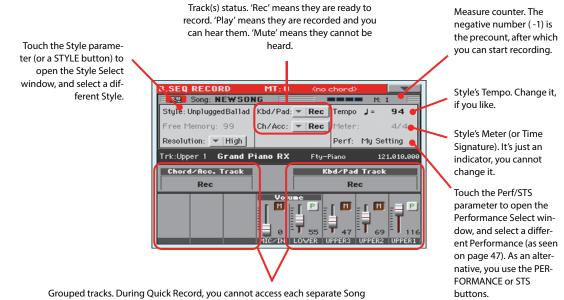


After having chosen the Backing Sequence (Quick Record) option, the Backing Sequence Record page appears.

## **Setting the Record parameters**

When you enter Backing Sequence Record, the latest selected Style and Sounds are already selected, and all tracks are ready to record. You could simply start recording as if you were playing with the Styles. However, there are some further settings that you may want to do.

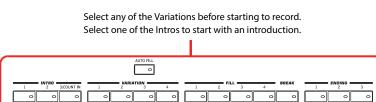
#### If you like, adjust any editable parameter in the display.



Grouped tracks. During Quick Record, you cannot access each separate Song track. For ease of use, just two 'master' tracks are provided: **Kbd/Pad** (Keyboard/Pads) and **Ch/Acc** (Chord/Accompaniment).

## Recording

#### Select the Style Element you wish to use before starting to play.



#### 2 Start recording, by pressing the START/STOP button.





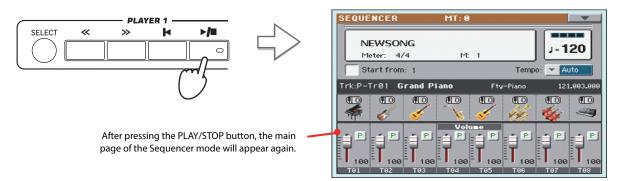
#### **3** Play as if you were performing live with the Styles.

During recording, select any Style Element (Intro, Variation, Fill, Break, Ending...) you like. You can also press START/STOP to stop the Style, and press it again to start the Style again!

Please remember that, while recording in Backing Sequence Record mode, you cannot use the SYNCHRO, TAP TEMPO/RESET, BALANCE controls.

**()** Note: If you do not wish to start the Song with the Style already playing, you can simply start recording by

pressing the PLAY/ STOP button in the PLAYER 1 section, then start the Style only at a later time. The Style will start at the beginning of the following measure. 4 When finished recording your Song, press the ►/■ (PLAY/STOP) button in the PLAYER 1 section to exit recording, and return to the main page of the Sequencer mode.



# 5 While in the main page of the Sequencer mode, press the ►/■ (PLAY/STOP) button in the PLAYER 1 section to listen to the recorded Song.

The Backing Sequence Song has been converted to an ordinary Song (in Standard MIDI File, or "MID", format). If you like it, you can save it. You can then read it in Song Play mode, or transfer it to any external sequencer.

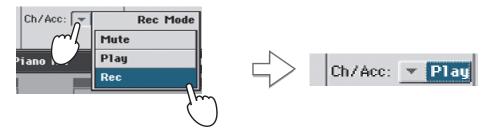
6 If you want to edit the Song, press MENU to access Edit mode.

## Second-take recording (Overdubbing)

You may want to record an additional "grouped" track, or replace a previously recorded track. A good idea may be to record all chords and Style Element changes during the first take, then record Keyboard tracks and Pads during the second take.

- **1** Press the RECORD button to enter Record mode again. When the Song Record Mode Select dialog box appears, select Backing Sequence (Quick Record) again.
- 2 If you are recording just one of the "grouped" tracks, set to Play the track to be preserved.

For example, if you only want to record the Keyboard tracks again, set the Kbd/Pad track to Rec, and the Ch/Acc track to Play.



**3** Press the START/STOP button to start recording the selected track.

With the above example, chords will play as recorded; you can record what you play on the keyboard (and the Pads).

- 4 Repeat the recording procedure, and press the ▶/■ (PLAY/STOP) button in the PLAYER 1 section to stop recording and return to the main page of the Sequencer mode.
- 5 While in the main page of the Sequencer mode, press the ►/■ (PLAY/STOP) button in the PLAYER 1 section to listen to the recorded Song.

Again, the Backing Sequence Song has been converted to an ordinary Song.

### Saving a Song

After having recorded a Song that you like, it is a good idea to save it, to avoid losing it when the instrument is turned off (or put on standby).

1 While in the main page of the Sequencer mode, touch the page menu icon to open the page menu.

Load Song	Delete Current Track				
Save Song	Solo Track				
Undo	Copy FX				
Overdub Step Recording	Paste FX				
Overwrite Step Recording	Exit from Record				
Delete Song					

#### 2 Select the Save Song command to open the Save Song window.

This window is very similar to the one you can see when pressing the MEDIA button on the control panel, and touch the Save tab to see the Save page. This page is, however, "filtered" to only see Song files.

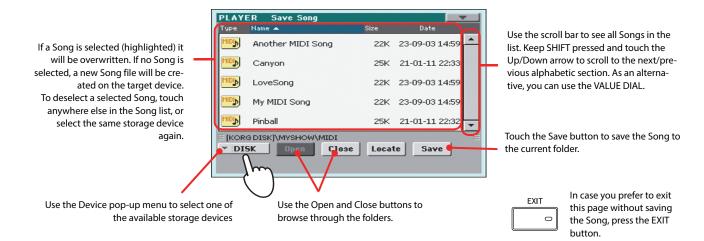
Load Song	Delete Current Track
Save Song	Solo Track
Undo m	Copy FX
Overdub Step R g	Paste FX
Overwrite Step A ding	Exit from Record
Delete Song	



After you select the Save song command, the Save Song page appears.

PLAY Type	E <b>R Save Song</b> Name 🔺	Size	Date
MIDIN	Another MIDI Song	22K	23-09-03 14:59
MIDIP	Canyon	25K	21-01-11 22:33
MIDIN	LoveSong	22K	23-09-03 14:59
MIDIP	My MIDI Song	22K	23-09-03 14:59
MIDI	Pinball	25K	21-01-11 22:32
E [KOR	G DISK]\MYSHOW\MIDI 5K Open Close	Locat	te Save

3 Select a device and folder where you want to save your Song.



4 Touch the Save button in the display to open the Save Song dialog box.

	Save Song
Touch the Text Edit icon to edit the Song's	Song Name:
name.	
	То
	[KORG DISK]\MYSHOW\MIDI
	Cancel OK

5 Touch OK in the display to save the Song, or Cancel to stop the Save operation.

# Recording a new Song (MP3 file)

With Pa3XLe, you can record your performance as an MP3 file. Keep in mind what follows:

• All you play on the keyboard, the Styles and the Standard MIDI Files performed by the Players will be recorded.

• Any audio signal entering the Audio Inputs is recorded (Right/microphone input and Left line input with the "Right In to Voice Processor" option selected, or the Left and Right line inputs with the "Audio In to Direct Out" option selected. See "Audio & Video > Audio In" on page 270). Harmony voices generated by the Voice Processor will be also recorded.

• You will not be able to load MP3 files while recording an MP3 Song, and you will not be able to record an MP3 Song while an MP3 file is playing.

You will then be able to play the resulting MP3 files using the Players, as with any other MP3 file.

#### 1 To access recording, keep the SHIFT button pressed, and press the RECORD button.

The MP3 Record dialog box will appear.

MP3 Record							
Status:							
Quality:	▼ Medium (128 kbit/s)						
Running time:	0:00 s.						
File length:	0 KBytes						
Free space:	0 KBytes						
Device:	▼ DISK [KORG DISK]						
	Rec 🔛						

When not recording, the status shown is Idle.

# 2 Choose the preferred MP3 audio quality option, by means of the "Quality" pop-up menu.

The higher the sound quality, the larger the MP3 file that will be generated.

# **3** Use the "Device" parameter to choose a location where to temporary store the recorded MP3 file.

This is not the final destination of your file, since you will be able to choose a different location after recording. However, be sure there is enough space for the temporary file, by checking the "Free space" parameter.

The default device is automatically selected as the recording unit; use the Device pop-up menu to choose a different one. You can record to the internal memory or to a device connected to one of the USB ports.

#### 4 When done, touch the "Rec" button in the display to start recording.

The "Rec" button changes to "Stop", and can be touched again to stop recording. Also, the "Idle" label changes to "Recording".

	MP3 Record
Status:	Recording
Quality:	▼ Medium (128 kbit/s)
Running time:	0:00 s.
File length:	0 KBytes
Free space:	10520504 KBytes
Device:	HD [KHD_USER]
	Stop E

#### **5** Start playing and singing your Song.

You can record everything you play; in addition, you can record your vocals. In other words, you can record your whole performance.

**Note:** MP3 files recorded with lower sampling rates may not sound very good. This is a problem that cannot be avoided with MP3 files.

**Note:** You cannot enter MP3 Record mode while in Sequencer or Media mode.

# 6 If you like, you can press the EXIT button to exit this dialog box and navigate through the Style Play and Song Play pages, without stopping to record.

# 7 To access the dialog box again, and see the file length or stop recording, press SHIFT+REC again.

During recording, if you exit from the MP3 Record dialog box while still recording, a red recorder icon will flash in the display.



During recording, you can use this dialog box to see the Recording time, file length, and the remaining space on disk. Maximum recording time depends on the available space in the selected device.

#### 8 Touch "Stop" to stop recording.

After touching "Stop", recording will stop, and the following dialog box will appear:

MP3 Record	
Name: T NEWSONG	
Path: HD: [KHD_USER]	Browse
Cance1	OK

9 Touch the T (Text Edit) button to give the MP3 file a name.

**10** Touch the "Browse" button to select a device and directory where to save the file.

#### **11** Touch the "Save" button to save the file.

After saving, you can listen to the MP3 file in Song Play mode, as you do with any other Song.

The MP3 file can also be moved to a personal computer for further editing, by copying it to an USB memory stick.

# Searching files and musical resources

With Pa3XLe, you can press the SEARCH button to search for files or musical resources.

## How to use the Search function

Depending on the page you are in, you can search for different types of data. For example, while in Media mode you can only search for files, while in Style Play or Song Play mode you can search for several different types of data (Styles, Songs, Lyrics...).

There are some pages where the Search function is not available, since there are no relevant data to search for that page (for example, the pages of the Global mode).

Here is the general procedure.

#### **1** Press the SEARCH button to open the Search window.

SEAR	SEARCH:									
Type:	- S	tyles			M	edia 🛛	Bro	wse	J	
								<×	] [ 0	lear
1	2	3	4	5	6	7	8	9	0	-
q	w	е	r	t	У	u	i	0	р	1
a	s	d	f	g	h	j	k		;	•
8		z	×	С	v	b	n	m	=	$\mathbf{X}$
	Alt		Spa	ace		,	•		1	·
?	*					Car	ncel	s	iearc	h

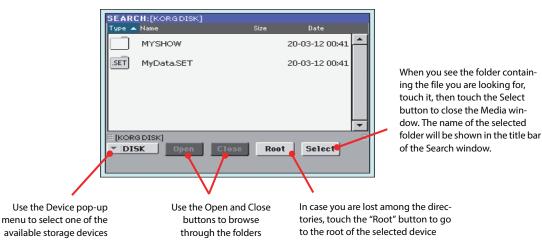
2 If needed, touch the "Type" pop-up menu, and choose the type of item you are looking for.

Type: 👻		Styles	
		Song	
1	2	Performances	
÷.	-	Songbook	
9	W	Sounds	
a	s	Lyrics	

When choosing Files, Songs or Lyrics, the "Browse" button will be activated, to allow for searching files in the disks.

Type: 👻 Song	Media	Browse
--------------	-------	--------

**3** In case you are searching for a file in a disk, touch the "Browse" button to open the Media window.



#### 4 Type the name of the file to be searched.

There is no difference between upper and lower cases ("LOVE" is the same as "Love" or "love").

SEARCH: Type: 👻 Styles				Media		Browse				
Love			+	-	$\langle \times$	] [0	lear			
1	2	3	4	5	6	7	8	9	0	-
q	w	е	r	t	У	u	i	0	р	1
a	s	d	f	g	h	j	k	1	;	•
8		z	×	С	v	b	n	m	=	1
+	Alt	Space			,	•	1	1	•	
?	*					Car	ncel	s	earc	h

#### 5 When finished entering the name, touch the "Search" button.

After a while, the list of files found begins to appear in the display.

Type: 🔽 Styles	Media Browse
Love	Stop
Name	Bank and Position
Love Disco	F04:BANK 4 - 16
Love Movie	F12:BANK 12-14
Love Ballad	F12:BANK 12-16

• Note: Only one search atime can be carried on. Please wait for the current search to be completed, or touch the Stop button in the display to stop the current search and do a new one.

After you have touched the "Search" button, its name changes to "Stop". If needed, touch this button to stop the ongoing search. The name of the button reverts to "Search". Any file found will remain in the display, until you do a new search.

The time needed to complete a search depends on the size of the device(s) and the number of files.

**Hint:** You can touch the Cancel button in the display, or press the EXIT button in the control panel, to exit from this window and carry on other operations. The search will continue in the background.

6 You can touch one of the found items to select it, and then touch the "Info" button to see information on it.

		Media Browse
Name	Туре	Style
Love D	Name	Love Disco
Love M	Bank & Posi	F04:BANK 4 - 16
Love B		
		<u>ок</u>
Results F	ound: 3	Info Select

Touch OK to close the Info dialog box.

7 If you want to return to the main Search page and type a search string again, touch the

2	icon.	Othe	rwise,
---	-------	------	--------

- 8 If you have found what you were looking for, touch its name and then touch the "Select" command.
- 9 You can exit from the Search window at any time, by pressing the EXIT or SEARCH button.

### Notes about searching

#### Wildcards

During search, the string entered will be search as a whole word or as part of a word. For example, if you entered "love", Pa3XLe will find "Love" and "LoveSong", or any other word containing the string "love".

You can use the wildcards "?" (any single character) and "*" (any sequence of characters) to search exactly that string. For example, "*love" will find "MyLove", but not "LoveSong". "??love" will find "MyLove" but not "TrueLove".

Also, if you are looking for words that can be spelled in a slightly different way, you can use the "?" wildcard to find all occurrences; "gr?y" will find out both "gray" and "grey".

Reference

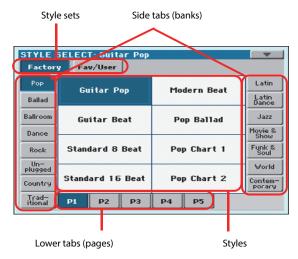
# **Selecting elements**

The following windows are shown in the various operating modes, whenever you try to select a Sound, Performance, STS, Style, Pad or Song.

## **Style Select window**

To open the Style Select window, touch the Style area whereas it appears in the display, or one of the buttons in the STYLE section on the control panel.

Press EXIT to exit from this page and go back to the previous page without selecting any Style.



**Note:** Depending on the status of the "Auto Select" parameter (see page 254), a Style may be immediately selected when pressing one of the STYLE buttons. The latest selected Style for that bank will be selected.

#### Style sets

Selectable sets of Styles. *Factory* Styles are Styles supplied as standard. *Fav/User* are *Favorite* Styles (locations for custom-made Styles with editable names) and *User* Styles (locations for custom-made Styles with fixed names).

#### Side tabs (banks)

Use these tabs to select a bank of Styles. Favorite tabs can be renamed (see "Renaming the Favorite banks" on page 133).

#### Lower tabs (pages)

Use these tabs to select one of the available pages in the selected bank.

#### Styles

Touch one of these buttons in the display to select a Style. Unless the "Display Hold" parameter (see page 254) is turned on, the window automatically closes shortly after you select a Style.

After selecting a Style from this window, and another Style is playing, the name of the new Style name begins to flash, meaning it is ready to start playing at the beginning of the next measure.

#### **Style Select page menu**

Touch the page menu icon to open the menu. Touch a command to select it. Touch anywhere in the display to close the menu without selecting a command.

Copy and Paste
Rename
Delete
Rename Favorite
Select All (Bank)

#### **Copy and Paste**

Use this command to copy the selected Style to a different location,

- 1. Select the Style to be copied. To select more items, keep the SHIFT button pressed and touch all the item to be selected for copying. *Hint:* You can deselect one of the selected items by touching it while still keeping the SHIFT button pressed. You can deselect all by touching a single item.
- 2. Choose the Copy and Paste command.
- **3.** Select the target location. In case you are copying more than a single item, all subsequent items will sequentially follow the first one. If there aren't enough locations available, the procedure will be cancelled. *Warning:* If you confirm, any Style already existing at the target location will be overwritten!

#### Rename

Use this command to edit the name of the selected item. Please keep in mind that you can only rename non-protected items.

- **1.** Select the Style to be renamed.
- **2.** Choose the Rename command, and use the virtual keyboard to edit the name.
- 3. When done, touch OK to confirm.

#### Delete

Choose this command to delete the selected item. Please keep in mind that you can only delete non-protected items.

- 1. Select the Style to be deleted. To select more items, keep the SHIFT button pressed and touch all the item to be selected for deleting. *Hint:* You can deselect one of the selected items by touching it while still keeping the SHIFT button pressed. You can deselect all by touching a single item.
- 2. Choose the Delete command, and confirm deletion. *Warn-ing:* Unless you have a copy of it, the deleted item will be gone forever!

#### **Rename Favorite**

Choose this command to edit the name of the Favorite Style banks.

Rename Favorite Banks				
1: T Favorite 1	7: T Favorite 7			
2: T Favorite 2	8: T Favorite 8			
3: T Favorite 3	9: T Favorite 9			
4: T Favorite 4	10: T Favorite 10			
5: T Favorite 5	11: T Favorite 11			
6: T Favorite 6	12: T Favorite 12			
Cancel	ОК			

The assigned name can be spanned over two lines, by separating them with the paragraph character ( $\mathfrak{g}$ ). For example, to write "World Music" on two lines, enter "World Music".

Be careful not to write words exceeding the width of the side tabs of the Style Select window.

- 1. Choose the Rename Favorite command.
- 2. Touch the **T** (Text Edit) symbol next to the bank to be renamed.
- **3.** Use the virtual keyboard to edit the name.
- 4. When done, touch OK to confirm.

#### Select All (Bank)

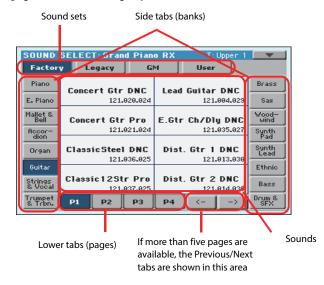
Choose this command to select all items in the current bank.

You can deselect one of the selected items by touching it while keeping the SHIFT button pressed. You can delect all by touching any single item.

### Sound Select window

To open the Sound Select window, touch the Sound area whereas it appears in the display, or the SOUND SELECT button of the control panel.

Press EXIT to exit from this page and go back to the previous page without choosing any Sound.



#### Sound sets

Selected set of Sounds. *Factory* Sounds are the Sounds supplied as standard. *Legacy* Sounds are Sounds compatible with older Pa-Series models. *GM* are Sounds and Drum Kits mapped according to the General MIDI 2 or XG standards. *User* Sounds are custom-created or edited Sounds.

#### Side tabs (banks)

Use these tabs to select a bank of Sounds.

#### Lower tabs (pages)

Use these tabs to select one of the available pages in the selected bank.

#### **Previous/Next tabs**

Scroll the lower tabs to the left or the right, when additional tabs are available but cannot be seen in the display.

#### Sounds

Touch one of these buttons in the display to select a Sound. Unless the "Display Hold" parameter (see page 254) is turned on, the window automatically closes shortly after you select a Sound.

#### Program Change

Program Change number. Shown only when the "Show" parameter is turned on in Global mode. (See page 254).

#### Sound Select page menu

Touch the page menu icon to open the menu. Touch a command to select it. Touch anywhere in the display to close the menu without selecting a command.

<b>_</b>	J
Copy and Paste	1
Rename	l
Delete	l
Select All (Bank)	

The commands are the same seen for the Style Select window's page menu, apart for a difference with the Delete command.

#### Delete

Choose this command to delete the selected Sound.

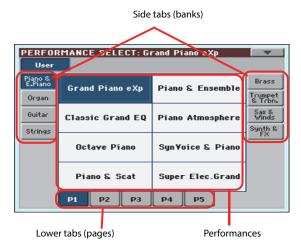
- Select the Sound to be deleted. To select more items, keep the SHIFT button pressed and touch all the item to be selected for deleting. *Hint:* You can deselect one of the selected items by touching it while still keeping the SHIFT button pressed. You can deselect all by touching a single item.
- Choose the Delete command, and confirm deletion. Warning: Unless you have a copy of it, the deleted item will be gone forever!

**Note:** This command does not delete any User PCM Sample used by the User Sounds. In case you need more free PCM Sample memory, and you know there are unused Samples and Multisamples in memory, use the "Not assigned to any Multisample/Drumkit" option of the "Delete" command in the Sampling mode to clean memory (see page 250).

### Performance Select window

To open the Performance Select window, touch the Performance area whereas it appears in the display, or one of the PERFOR-MANCE buttons on the control panel. Use the PERFOR-MANCE buttons to go directly to the selected bank.

Press EXIT to exit from this page and go back to the previous page without selecting any Performance.



**Note:** Depending on the status of the "Auto Select" parameter (see page 254), a Performance may be immediately selected when pressing one of the PERFORMANCE buttons. The latest selected Performance for that bank will be selected.

#### Side tabs (banks)

Use these tabs to select a bank of Performance. Each tab corresponds to one of the PERFORMANCE buttons on the control panel.

#### Lower tabs (pages)

Use these tabs to select one of the available pages in the selected bank.

If you press again the same PERFORMANCE button on the control panel, the next page in the same bank is selected. This way, you do not need to touch one of the corresponding tabs in the display in order to select a different page.

#### Performances

Touch one of these buttons in the display to select a Performance. Unless the "Display Hold" parameter (see page 254) is turned on, the window automatically closes shortly after you select a Performance.

#### **Performance Select page menu**

Touch the page menu icon to open the menu. Touch a command to select it. Touch anywhere in the display to close the menu without selecting a command.

Copy and Paste
Rename
Delete
Select All (Bank)

The commands are the same seen for the Style Select window's page menu.

### STS Select

To select one of the four STS associated with the current Style or the selected SongBook Entry, use the four STS buttons on the control panel.

As an alternative, touch the STS name tab in the main page of the Style Play or Song Play mode, where you can see the name of the available STSs.



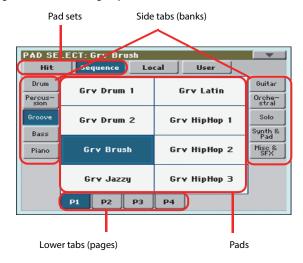
The STS's name can also be seen in the Lyrics and Markers page:

1 Nylon Guitar 2 Distortion Gtr 3 Trumpet & Mu4 Electric Piano

### Pad Select window

Touch the Pad area whereas it appears in the display, to open the Pad Select window.

Press EXIT to exit from this page and go back to the previous page without selecting any Pad.



#### Pad sets

Selected set of Pads. *Hit* are single-note, pre-programmed factory Pads. *Sequence* are sequence-based, pre-programmed factory Pads. *Local* are like Factory Pads, but contain Pads customized for the music of your Country. *User* can be either single-note or sequence-based Pads, and can be user-created or modified.

#### Side tabs (banks)

Use these tabs to select a bank of Pads.

#### Lower tabs (pages)

Use these tabs to select one of the available pages in the selected bank.

#### Pad

Touch one of these buttons in the display to select a Pad. Unless the "Display Hold" parameter (see page page 254) is turned on, the window automatically closes short after you select a Pad.

#### Pad Select page menu

Touch the page menu icon to open the menu. Touch a command to select it. Touch anywhere in the display to close the menu without selecting a command.

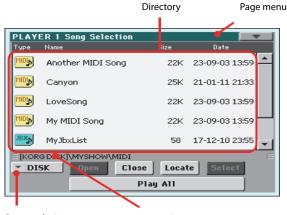


The commands are the same seen for the Style Select window's page menu.

### Song Select window

This page appears when you touch the Song name in the display, or press the SELECT button in one of the PLAYER sections on the control panel.

Press EXIT to exit from this page and go back to the main page of the Song Play operating mode without selecting a Song.



Storage device

Song path

While in this page, you can select a Standard MIDI File, Karaoke, MP3 or Jukebox file.

#### Directory

Тур

This is the list of the selected device's content.

ŀ	File st	tatus	
Ty	JPe	Name 🔺	
		MIDI	-
		МРЗ	
M	Ъ	Another MIDI Song	
M	Ъ	Canyon	
M	D	LoveSong	•
e of the or fold		File or folder name	

Use the scrollbar to scroll the list items. As an alternative, you can scroll the list using the VALUE DIAL.

When the Name label is selected on top of the list, keep the SHIFT button pressed and touch one of the arrows to jump to the previous or next alphabetical section.

You can touch one of the labels on top of the list, to reorder the list items accordingly. By touching the label again, the order of the files will switch between ascending and descending.

A list can contain several different types of files or folders.

Type icon	File/folder type
MID	Standard MIDI File (MID)
KAR _J ,	Karaoke file (KAR)
MP3	MPEG Layer 3 (MP3)
JBX	Jukebox file (JBX)
	Folder

A file or folder may be in one of the following status. (See "Protect" and "Unprotect" on page 299 for information on how to change the file status).

Status icon	File/folder status		
<b>a</b>	Protected		
-	Unprotected		

#### Page menu icon

Touch the page menu icon to open the menu. See "Song Select page menu" on page 108 for more information.

#### **Storage device**

Use this menu to select one of the available storage devices.

Name	Media type
DISK [KORG DISK]	User-accessible area of the internal memory. This is where you can store Songs and other files.
SD [KORG SD]	Optional microSD card inserted into the rear slot.
SD [KORG SD2]	Optional microSD card inserted into the rear slot (second partition).
USB	USB memory device (like a memory stick) connected to the USB Host port.

The actual name (label) of the device appears within square brackets ([]).

#### Song path

This line shows the current device path.

#### Open

Opens the selected folder (item whose icon looks like this one:

#### Close

Closes the current folder, returning to the parent ("upper") folder.

#### Locate

Touch this button to go back to the folder containing the selected Song. This is useful to quickly locate it, after you have browsed through long directories and "dug" into different folders.

#### Select

Selects the highlighted item in the display. If a Song is already playing, it stops, and the new Song is ready to play. You will return to the main page.

#### Play All

When you touch this button, all Standard MIDI Files and MP3 files contained in the current directory are added to a new Jukebox list, that is automatically assigned to Player 1. The order in which they are played depends on the current sorting method, i.e., how the files are shown in the display.

You can use this Jukebox list as any other list of this type (i.e., start the playback with PLAY/STOP, jump to the next Song in the list with SHIFT + >>, edit it in the Jukebox page...).

**Note:** A Jukebox list can include up to 127 Songs. If your folder contains more items, only the first 127 will be considered.

**Hint:** If you don't want the list to be deleted when setting the instrument to standby, go to the Jukebox page and save it as a "JBX" file.

#### Selecting a Song by its ID number

Each Song in a folder on a device (up to 9,999) has a progressive ID number assigned. When the "Show Song Number" option is selected in the Song Select page menu (see below), you can see this number before the Song's name in the Song Select window. You can use this number to select the Song by composing the corresponding number, speeding up the Song retrieval when you are using an hard disk filled with midifiles.

### 9997: CANYON.MID

While in the Song Select window, press the SELECT button in the corresponding PLAYER section to open the keypad, and enter the number corresponding to the Song to be selected.

While in any page of the Song Play mode, press the SELECT button in the corresponding PLAYER section twice to open the keypad.

**Note:** If no Song corresponds to the dialed number, the "Song not available" message will appear.

**Note:** While the directory may contain more than 9999 files, you can't select Songs outside the 0001-9999 range when using the numeric keypad.

#### Song Select page menu

Touch the page menu icon to open the menu. Touch a command to select it. Touch anywhere in the display to close the menu without selecting a command.

<b></b>
Export Song List
Show Song Number
Show Song Extention
Create New Folder
Rename
Delete

#### **Export Song List**

Select this command to save the current list as a text file. This way, you will be able to print a list of Songs, to see which number matches each Song.

- 1. While in the Song Select window, select the folder whose Song list you wish to save as a text file.
- 2. Select the Export Song List command from the page menu.
- **3.** A dialog box will appear, asking you to select one of the available storage devices.

₩rite So	ong List
▼ DISK	
Cancel	OK

4. Select one of the options, and touch OK to confirm.

**Note:** The text file will contain a list of "*.mid", "*.kar", ".mp3" and "*.jbx" files only. Folders and other types of files will not be included.

When saved, the text file will be named after the selected folder. For example, a folder named "Dummy" will generate a "Dummy.txt" file. If a file with the same name already exists in the target, it will be overwritten without asking for confirmation. A *file containing the list of all valid files contained into the root of the disk will generate a "Root.txt" file.* 

*The list will include the progressive number assigned to each Song, the file names, the total number of files in the list.* 

*To correctly display and print the list on a personal computer, use a fixed size (i.e., non-proportional) character in your text editor.* 

#### **Show Song Number**

Check this option to make the Song's progressive ID number appear in the list, next to each Song.

#### **Show Song Extension**

Check this option to make the file extension ("*.mid", "*.kar", "*.jbx", "*.mp3") appear in the list, at the end of each Song's name.

#### **Create New Folder**

This command will let you create a new generic folder in the root of any device, or inside any other generic folder. You can't create a ".SET" folder with this command, since this type of folder is reserved to the Save operations (and can be created with the New SET button in any Save page).



By touching the **T** (Text Edit) button you can open the Text Edit window. Enter the name, then touch OK to confirm and close the Text Edit window.

#### Rename

(Only available when an item is selected in a list) Use this function to change the name of an existing file or folder. You cannot change the 3-character extension of files and ".SET" folders, since they are used to identify the type of file or folder.

Rename				
01d name: MYSHOW				
New name: T MYSHOW				
Cancel OK				

Touch the **T** (Text Edit) button to open the Text Edit window. Enter the new name, then touch OK to confirm and close the Text Edit window.

#### Delete

(Only available when an item is selected in a list) Use this command to delete the selected file or folder.

## **Style Play**

The Style Play mode is the boot-up operating mode. When in this mode, you can play along with the Styles (i.e. automatic accompaniments), using up to four tracks (Upper 1-3 and Lower) to play on the keyboard. You can choose different Sounds and Effects by selecting Performances and STSs. Four Pads will provide single-shot sounds or repeating patterns in sync with the Style. You can also use the SongBook to automatically select Styles suited for a particular song.

### **Start-up settings**

Since the "My Setting" Performance is automatically selected when turning the instrument on, you can save your preferred start-up settings to it.

Select the Sounds, Effects, and other settings you would like to see automatically selected when turning the instrument on. Then keep the MY SETTING button pressed for about one second. When the Write Startup Settings window appears, confirm by touching OK.

**Note:** If you like some settings to be preserved even when choosing different Performances, STSs and Styles, turn on the desired "locks" to avoid changes to the selected parameters (see "General Controls > Lock" on page 255).

# How Styles, Variations, Performances and STSs are linked together

Styles, Variations, Performances and STSs are linked in several ways.

• When the STS MODE LED is steadily on or blinking, selecting a Style also changes the Keyboard tracks (STS 1 is automatically selected). Performance settings are overridden.

• When the STS MODE LED is blinking, selecting a Variation also select the corresponding STS.

• When the STYLE CHANGE LED is on, selecting a Performance also selects a Style (the one memorized with the Performance).

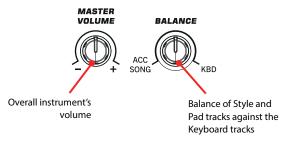
• Current track settings can be saved either to a Performance, an STS, or the Style Settings, depending on the Write command you select.

### **Styles and Pads**

Each Style includes four Pads. Each time you select a Style, the four Pads it contains are assigned to the four PAD buttons. The Style and the Pads will play using the same Tempo value.

### **Master Volume and Balance**

While the MASTER VOLUME knob controls the general volume of the instrument, you can use the BALANCE knob to balance the Style's Accompaniment and Pad tracks against the Keyboard tracks.



**Note:** As an alternative, the BALANCE knob can also work as a volume control. See "Balance Control" on page 261.

### **Factory, Favorite and User Styles**

There are three different types of Style locations:

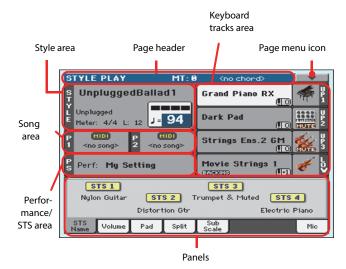
- Factory Style banks are the preloaded Styles, that you can't usually edit (unless you want to do so by turning off the protection, see "Factory Style and Pad Protect" on page 260).
- Favorite Style banks are Styles that can be loaded from an external device, or can be created or edited in Style Record mode. You can rename the tabs in the Style Select window to create places for custom banks, or for additional music genres that are not already included among the supplied banks. See "The Favorite banks" on page 133 for information on how to manage these Styles.
- User Style banks are, like the Favorite banks, Styles loaded from an external device, created or edited by yourself (the User). These are banks conceived as a 'workbench' – a place where to manage Styles and banks before saving them to a final location. See the "Style/Pad Record" chapter for information on how to edit or create Styles.

### Main page

This is the page you see when you turn the instrument on.

To access this page from another operating mode, press the STYLE PLAY button.

To return to this page from one of the Style Play edit pages, press the EXIT button.



Details on individual tracks can be seen by pressing the Volume tab. Use the TRACK SELECT button to switch between Normal view (Keyboard tracks, grouped Style tracks) and Style view (individual Style tracks). (See "Volume panel" starting from page 113).

#### Page header

This line shows the current operating mode, transposition and recognized chord.



#### **Operating mode name**

Name of the current operating mode.

#### **Master transpose**

Master transpose value in semitones. This value can be changed by using the TRANSPOSE buttons on the control panel.

**Note:** Transpose may automatically change when selecting a different Performance or Style. It may also change when loading a Standard MIDI File generated with an instrument of the Korg Pa-Series.

To avoid transposition, the Master Transpose is "locked" by default. If you want to unlock it, change the Master Transpose Lock parameter's status (see "General Controls > Lock" on page 255).

#### **Recognized chord**

Displays the recognized chord, when you play a chord on the keyboard. If no chord abbreviation is shown, check if at least one of the LEDs in the CHORD SCAN section is turned on.

You can choose how chords are recognized by using the CHORD SCAN buttons and the "Chord Recognition" parameter in the Global > Style page (see page 258).

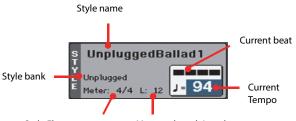
#### Page menu icon

Touch the page menu icon to open the menu. See "Page menu" on page 131 for more information.



#### Style area

This is where the Style name is shown, together with its Tempo and Meter (Time Signature) parameters.



Style Element meter Measure length/number

#### Style name

Currently selected Style. Touch the Style name (or press one of the buttons in the STYLE section) to open the Style Select window.

#### Style bank

Bank the current Style belongs to.

#### **Style Element meter**

Meter (time signature) of the current Style Element.

#### Measure length/number

While the Style is playing, an 'M' appears, to show the current measure number of the current Style Element playing. While it is in stop, an 'L' appears, to show the length (total number of measures) of the current Style Element.

#### **Current beat**

Beat number currently playing.

#### **Current Tempo**

Metronome Tempo (from 30 to 250). Use the TEMPO buttons to change the Tempo value.

As an alternative, keep the SHIFT button pressed and use the VALUE DIAL to change the Tempo. Also, you can touch the Tempo field and drag it with your finger, or change it with the VALUE DIAL.

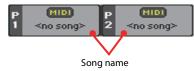
To recall the Tempo stored in the current Style, press the TEMPO buttons together.

You can prevent Tempo from changing by turning the TEMPO LOCK LED on.

**Note:** Since Style Elements may contain Tempo Change data, Tempo may change while a Style Element is playing.

#### Songs area

This is where the Songs assigned to the onboard Players are shown.

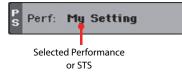


#### Song name

Name of the Songs assigned to the Players. You can select Songs while playing Styles, to have them ready when switching to Song Play mode.

#### **Performance/STS area**

This is where the latest selected Performance or STS name is shown.



#### **Selected Performance or STS**

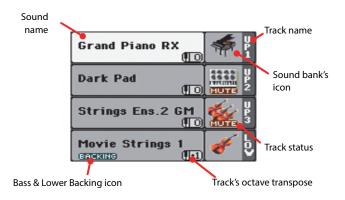
This is the latest selected Performance (Perf) or Single Touch Setting (STS#).

Touch the name to open the Performance Select window (see "Performance Select window" on page 106). As an alternative, use the PERFORMANCE section to select a different Performance.

To select a different STS, use the four STS buttons under the display, or the STS panel in the display.

#### **Keyboard tracks area**

This is where Keyboard tracks are shown.



#### Sound name

Name of the Sound assigned to the corresponding Keyboard track.

• If the track is already selected (white background), touch the Sound name to open the Sound Select window.

• If the track is not selected (dark background), first select it, then touch the Sound name to open the Sound Select window.

You can also open the Sound Select window by using the SOUND SELECT button on the control panel.

For more information about the Sound Select window, see "Sound Select window" on page 105.

#### Keyboard track octave transpose

*Non editable.* Octave transpose of the corresponding track. To individually edit the octave transpose for each track, go to the "Mixer/Tuning > Tuning" edit page (see page 120).

You can also transpose all Upper tracks by using the UPPER OCTAVE buttons on the control panel.

#### **Bass & Lower Backing icon**

When the Bass & Lower Backing function is active, the Backing icon appears in the Lower track Sound area (see "Bass & Lower Backing" on page 259).

#### **Keyboard track name**

Non editable. Name of the corresponding track:

Abbreviation Track		Hand	
UP1	Upper 1	Right hand (or both	
UP2	Upper 2	when in Full Key- board mode)	
UP3	Upper 3	bourd mode)	
LOW	Lower	Left hand	

#### Sound bank's icon

This picture illustrates the bank the current Sound belongs to.

#### **Keyboard track status**

Play/mute status of the current track. Select the track, then touch this area to change the track status.

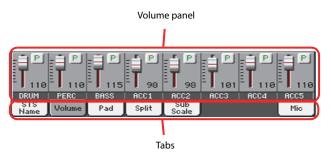
Mute status. The track cannot be heard.

No icon Play status. The track can be heard.



Panels

The lower half of the main page contains the various panels, you can select by touching the corresponding tabs. See more information in the relevant sections, starting from page 113.



### **STS Name panel**

Touch the STS Name tab to select this panel. Single Touch Settings (STS) are memory locations intended for quickly choosing Keyboard Sounds, contained in each Style or SongBook Entry. While in this panel, you can see the name of the four STSs belonging to the latest selected Style or SongBook Entry. Touch one of the names to select the corresponding STS.

_	TS 1 n Guitar	ST	<mark>S 2</mark> 1	STS	_	STS (	•
	Distortion Gtr Electric Piano						
STS Name	Volume	Pad	Split	Sub Scale			Mic

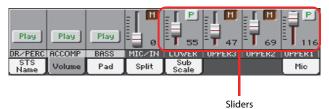
**Note:** You cannot edit the STS names in this panel. To edit a name, select the STS to be renamed, then select the Write Single Touch Setting command from the page menu (see "Write Single Touch Setting dialog box" on page 132). As an alternative, you can keep one of the STS buttons pressed to show the Write dialog box.

### **Volume panel**

Touch the Volume tab to select this panel. This is where you can set the volume of each track, and mute/unmute them.

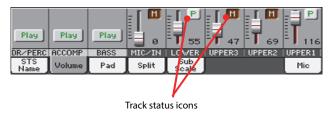
### Changing the tracks' volume

You can change the volume of each track by dragging the sliders in the display. You can also change the volume by touching a track's slider, then using the VALUE DIAL.



### Changing the Play/Mute status

Play/mute status of the current track. Select the track, then touch this area to change its status.



P

Play status. The track can be heard.

M

Mute status. The track cannot be heard.

## Saving the track's volume and play/mute status

Each set of tracks can be saved into a different memory. This allows for a great flexibility when mixing Keyboard and Accompaniment tracks through the use of Performances, STSs and Styles.

• The volume and play/mute status of the *Keyboard tracks* can be saved to a Performance or STS (see "Write Performance" on page 131 and "Write Single Touch Setting" on page 131).

• The volume and play/mute status of the *separate Style tracks* can be saved to the current Style Settings (see "Write Current Style Settings" on page 131).

• The offset volume of the *grouped Style tracks* is automatically saved to the Global.

#### **Track names**

Under the sliders, a label for each track is shown. Use TRK SELECT the TRACK SELECT button to switch between the

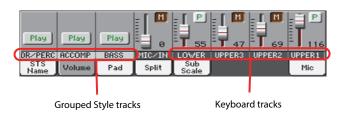
*Normal* (grouped Style tracks, Keyboard tracks) and the *Style Tracks* view (separate Style tracks).

Track	Description
Normal View	
DR/PERC ^(*)	Grouped Drum and Percussion tracks
ACCOMP (*)	Grouped Accompaniment tracks (Acc1-5)
BASS ^(*)	Bass Style track
LOWER	Lower track
UPPER13	Upper tracks
Style Tracks View	
DRUM	Drum Style track
PERC	Percussion Style track
BASS	Bass Style track
ACC15	Accompaniment Style tracks

(*).Volume for these grouped tracks is a global offset, that can be adjusted in the Global > Mode Preferences > Style page.

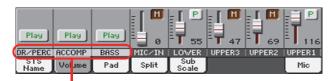
#### **Normal view**

In *Normal view* you can see the grouped Style tracks (Play/Mute only), and the separate controls for the Keyboard tracks:



#### **Grouped Style tracks**

In the Normal view, Style tracks are grouped together (Dr/Perc, Accomp, Bass groups), to allow for instant play/mute of several tracks at the same time.



Grouped Style Tracks

Changing the volume of the grouped Style tracks can be done (as a general control) in the Global mode > Mode Preferences > Style page (see "Style Tracks Global Volume" on page 259).

#### **Keyboard tracks**

Here you can separately control the volume and play/mute status of each Keyboard track.

#### **Style Tracks view**

Press the TRACK SELECT button to switch from the Normal view to the *Style Tracks view*. In this view, individual Style tracks are shown in the lower half of the display, while the upper half of the main page changes to show parameters for the selected Style track.



Style tracks Volume

Press TRACK SELECT again to return to the Normal view (Keyboard tracks, grouped Style tracks, Mic/In controls).

#### **Style tracks Volume**

Here you can change the volume and play/mute status of each one of the individual Style tracks.

#### **Original Style Sounds**

This parameter lets you decide if the Style has to play the Sounds saved in the Performance or Style Settings, or the ones saved in each Style Element.

*Note:* When assigning a Sound to a Style track, the "Original Style Sounds" parameter is automatically turned off to allow its use.

*Note:* This parameter can be saved with the Performance or Style Settings.

- On Style tracks always use the original Sounds recorded inside each Style Element. If you assign a different Sound to a Style track, this parameter is automatically set to Off.
- Off You can assign different Sounds to each Style track, and save them in a Performance or Style Settings. The selected Sounds remain the same for all Style Elements. These Sounds can be saved into a Performance or Style Settings with the "Write Performance" or "Write Current Style Settings" commands (see page 131). Assigned Sounds are shown in the Sounds area of this page.

Sounds assigned to a Performance or to the Style Settings are recalled when the STYLE CHANGE LED is turned on.

#### **Selected Track Info area**

This line lets you see the Sound assigned to the selected track. It appears both in the main page, and in several edit pages.



#### Track name

Name of the selected track.

#### Sound name

Sound assigned to the selected track. Touch anywhere in this area to open the Sound Select window, and select a different Sound.

#### Sound bank

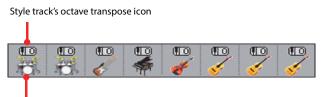
Bank of the selected Sound.

#### **Program Change**

Program Change number sequence (Bank Select MSB, Bank Select LSB, Program Change).

#### Sounds area

This area lets you see the Sound bank's icon and octave transposition for the eight Style tracks.



Sound bank's icon

#### Style track's octave transpose icon

*Non editable.* Octave transpose of the corresponding track. To change the octave transpose for the Keyboard tracks, use the UPPER OCTAVE buttons. To change the octave transpose for any other track, go to the "Mixer/Tuning > Tuning" edit page (see page 120).

#### Sound bank's icon

This picture illustrates the bank the current Sound belongs to. Touch an icon a first time to select the corresponding track (detailed information are shown on the Selected Track Info area, see above). Touch it a second time to open the Sound Select window.

### **Pad panel**

Touch the Pad tab to select this panel. This is where you can assign a different Hit or Sequence Pad to each of the four pads, and see at a glance how pads are programmed. For more options, go to the "Pad/Switch > Pad" page (see page 129).

			9
Pad 1 Grv Brush	Pad 2 Perc Shak+Tamł	Pad 3 Gtr Steel Mute 1	Pad 4 Synth Seg 11
STS Name Volume	Pad Split	Sub Scale	Mic

#### Pad assignment

Name of the Hit or Sequence assigned to each Pad. Touch the box to make the Pad Select window appear (see "Pad Select window" on page 106).

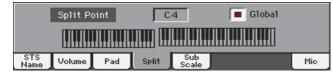
When the lock is open, Pads could automatically change when choosing a Style or SongBook Entry.

#### Pads lock icon (🛱)

Close this lock to prevent Pads from changing when choosing a different Style or SongBook Entry.

### **Split panel**

Touch the Split tab to select this panel. This is where you can set the split point.



#### **Split Point**

Use this parameter to select a different split point. A full-range piano keyboard is shown in the display, divided at the selected split point. Upper tracks play on the right of this point, while the Lower track plays on the left.

#### **Keyboard diagram**

Touch anywhere on the keyboard diagram. A message will appear, asking you to press the new split point on the keyboard of your Pa3XLe (or to press the EXIT button to close the message with no changes).

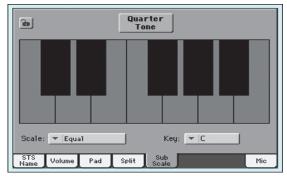
#### Global

There is a global split point, and a "local" one, that can be memorized into a Performance, Style or SongBook Entry.

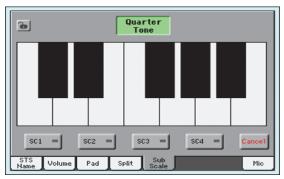
- On You are editing the global split point. The global split point is considered when selecting a Performance, Style or SongBook Entry that does not contain a "local" split point.
- Off You are editing the "local" split point memorized in the current Performance, Style or SongBook Entry.

### Sub-Scale panel

Touch the Sub-Scale tab to select this panel. This panel replicates the "Mixer/Tuning > Sub Scale" edit page (see page 121). .



With the "Quarter Tone" button not pressed



With the "Quarter Tone" button pressed

### **Mic panel**

Touch the Mic tab to select this panel. This is where you can set the various Voice Processor options.



**Note:** Depending on the audio input routing, the microphone input might not work, whichever the status of the switches in this page. See "Audio & Video > Audio In" on page 270.

#### **VP** Preset

Use this pop-up menu to select one of the available Voice Processor Presets. Selecting a Preset may change all the Voice Processor parameters. Presets can be freely edited (see "Current Voice Processor Preset" on page 271).

#### Global

You can choose a global VP Preset, and a "local" one, that can be memorized into a Performance, Style or SongBook Entry.

- On You are choosing the global VP Preset, that will be considered when selecting a Performance, Style or SongBook Entry that does not contain a "local" split point.
- Off You are choosing the "local" VP Preset memorized in the current Performance, Style or Song-Book Entry.

#### Mic Talk On/Off

Use this switch to soften all music generated by the Pa3XLe, and speak in the microphone at normal level. This is useful to address your audience, while automatically lowering the background music volume.

- On While this switch is pressed, all the Voice Processor modules are momentarily turned off. The Talk function can be programmed in the Talk section of the Global > Mic > Global Setup page (see "Mic: Global Setup" on page 454).
- Off Release this switch to return to the original settings.

#### **Harmony Level**

Use this knob to adjust the level of the Harmony voices. By default, this control is assigned to the ASSIGNABLE KNOB.

#### EQ (Low / Mid / Hi)

Use these knobs to adjust the level of the corresponding Equalization bands. The Equalizer has effect on the Lead voice only.

### **Edit menu**

From any page, press the MENU button to open the Style Play edit menu. This menu gives access to the various Style Play edit sections.

When in the menu, select an edit section, or press EXIT or STYLE PLAY to exit the menu and return to the main page. To return to the main page, you can also select the Main Page menu item.

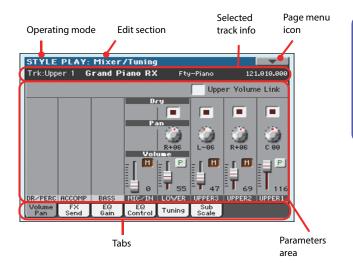
When in an edit page, press EXIT or the STYLE PLAY button to return to the main page of the Style Play operating mode.

STYLE PLAY Menu		<b>•</b>
	Main Page	
Mixer Tuning	Effects	Track Controls
Keyboard Ensemble	Pad Assign.S <del>v</del> itch	Style Controls

Each item in this menu corresponds to an edit section. Each edit section groups various edit pages, that may be selected by touching the corresponding tab on the lower part of the display.

### **Edit page structure**

All edit pages share some basic elements.



#### **Operating mode**

This indicates that the instrument is in Style Play mode.

#### **Edit section**

This identifies the current edit section, corresponding to one of the items of the edit menu (see "Edit menu" on page 117).

#### Page menu icon

Touch this icon to open the page menu (see "Page menu" on page 131).

#### **Parameters** area

Each page contains various parameters. Use the tabs to select one of the available pages. For detailed information on the various types of parameters, see sections starting below.

#### Tabs

Use tabs to select one of the edit pages of the current edit section.

### Mixer/Tuning > Volume/Pan

This page lets you set the volume and pan for each of the Keyboard or Style tracks. Volume settings are the same as in the Volume panel of the main page.

Use the TRACK SELECT button to switch from the Keyboard to the Style tracks, and vice versa.



#### **Upper Volume Link**

With this parameter, you define if changing the volume of one of the Upper tracks proportionally changes the volume of the other Upper tracks.

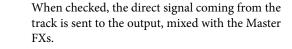
- On When changing the volume of one of the Upper tracks, volume for the other Upper tracks changes proportionally.
- Off When changing the volume of one of the Upper tracks, only that track's volume is changed. The other Upper tracks are left unchanged.

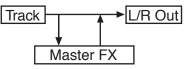
#### Dry

Use this checkbox to turn the dry (direct) track signal on or off from the outputs.

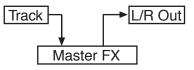
On

Off





When unchecked, the direct signal coming from the track is removed from the audio output, and only sent to the Master FXs. The effected signal will still be panned (in stereo FXs only) according to the Pan value.



#### Pan

Track position in the stereo field.

L-64...L-1 Left stereo channel.

C 00 Center.

R+1...R+63 Right stereo channel.

#### Volume

Track's volume. This is the volume of each track, as saved in the Style (Style Settings), Performance, STS or SongBook Entry. It may change when choosing a different Style, Performance, STS or SongBook Entry.

0...127 MIDI value of the track's volume.

#### Play/Mute icon

Track's play/mute status.

PÍ

Play status. The track can be heard.



Mute status. The track cannot be heard.

### Mixer/Tuning > FX Send

Pa3XLe includes two groups of effects (FX A and FX B). While in Style Play mode, the A group is reserved to the Style and Pad tracks, the B group to the Keyboard tracks.

Choosing and editing the effects is done in the dedicated Effect section (see "Effects > A/B FX Configuration" on page 123).

This page lets you set the level of the track's signal going to the Master FX processors. The Master FX processors are connected in parallel with the dry/direct signal, so you can decide the amount of direct signal that will be sent to the Master FX processors.

In case you do not want to hear the direct signal, just set the Dry parameter to Off (see "Dry" above).

You can assign to the Master FXs any kind of available effects, but we found it convenient to arrange them in the following way, for most of the Styles, STS and Performances included with the Pa3XLe:

- A-Master 1 Reverb processor for the Style and Pad tracks.
- A-Master 2 Modulating FX processor for the Style and Pad tracks.
- B-Master 1 Reverb processor for the Keyboard tracks.
- B-Master 2 Modulating FX processor for the Keyboard tracks.

Use the TRACK SELECT button to switch from Keyboard to Style tracks, and vice-versa.



#### FX Group

This indicates the FX group (A or B) assigned to the group of tracks shown.

#### Send level (Master 1, Master 2)

0...127 Level of the track (direct) signal sent to the corresponding Master FX effect processor.

#### Play/Mute icon

Track's play/mute status.



Play status. The track can be heard.



Mute status. The track cannot be heard.

### Mixer/Tuning > EQ Gain

In this page you can set the three-band equalization (EQ) for each individual track.

Use the TRACK SELECT button to switch from the Keyboard to the Style tracks, and vice-versa.



#### Hi (High) Gain

This parameter lets you adjust the high frequencies equalization on each individual track. This is a shelving curve filter. Values are shown in decibels (dB).

-18...+18dB High gain value in decibels.

#### Mid (Middle) Gain

This parameter lets you adjust the middle frequencies equalization on each individual track. This is a bell curve filter. Values are shown in decibels (dB).

-18...+18dB Middle gain value in decibels.

#### Low Gain

This parameter lets you adjust the low frequencies equalization on each individual track. This is a shelving curve filter. Values are shown in decibels (dB).

-18...+18dB Low gain value in decibels.

#### Play/Mute icon

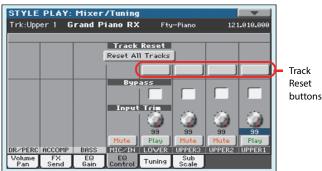
Track's play/mute status.

Play	Play status. The track can be heard.		
Mute	Mute status. The track cannot be heard.		

### **Mixer/Tuning > EQ Control**

This page lets you reset or bypass the track's equalization, programmed in the previous page.

Use the TRACK SELECT button to switch from the Keyboard to the Style tracks, and vice-versa.



#### **Reset All Tracks button**

Touch this button to reset (i.e., "flatten") all the equalization parameters on all tracks (both Realtime and Style tracks).

#### **Track Reset buttons**

Use these buttons to reset (i.e., "flatten") all the equalization parameters on the corresponding track.

#### Bypass

Check any of these checkboxes to bypass the equalization for the corresponding track. When bypassed, equalization has no effect on the track, but all parameters are preserved. When the box is unchecked, equalization is activated again.

On	The bypass function is engaged, so no equaliza-
	tion is active on the corresponding track.

Off The bypass function is not engaged, so the equalization is active on the corresponding track.

#### Input Trim

This knob allows you to limit the level of the signal passing through the equalizer. Extreme equalization values can overload the audio circuits and lead to distortion. This control lets you set equalization as desired, and at the same time avoid overloading.

```
0...99 Limiting value. The higher, the most effective it is.
```

#### Play/Mute icon

Track's play/mute status.

Play	Play status. The track can be heard.

Mute

Mute status. The track cannot be heard.

### Mixer/Tuning > Tuning

This page is where you can set the octave transpose and fine tuning for each track. Plus, you can program the Pitch Bend range for each track.

Use the TRACK SELECT button to switch from the Keyboard to the Style tracks, and vice-versa.



#### **PB Sensitivity**

These parameters show the Pitch Bend range for each track, in semitones.

```
1...12Maximum up/down pitch bend range (in semi-<br/>tones). 12 = ±1 octave.
```

0 No pitch bend allowed.

#### Oct(ave) Transpose

This is the octave transpose value.

-3	Lowest octave.
0	Standard tuning.
+3	Highest octave.

#### Detune

This is the fine tuning value.

-64	Lowest pitch.
00	Standard tuning.
+63	Highest pitch.

#### Play/Mute icon

Mute

Track's play/mute status.

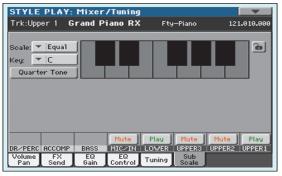
- Play Play status. The track can be heard.
  - Mute status. The track cannot be heard.

### Mixer/Tuning > Sub Scale

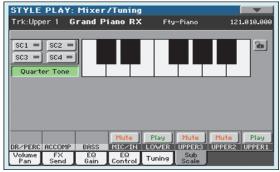
You can assign a different scale (a sub-scale) to the Keyboard tracks, the Upper tracks or all tracks. This will allow, for example, to play a solo with a particular Quarter Tone tuning, while the backing tracks play in the Equal tuning.

This page is where you can program the sub-scale for the selected tracks; a different sub-scale can be associated to each Performance or STS. Track selection is general, and can be done with the "Scale Mode" parameter of the Global > Mode Preferences > Style page (see page 258).

The remaining tracks will use the basic scale set in the Global > Tuning > Scale page (see "Main Scale" on page 263). This is the "standard" scale of the instrument.



With the "Quarter Tone" button not pressed



With the "Quarter Tone" button pressed

**Note:** Quarter Tone selection can be received via MIDI (i.e., from an external sequencer or controller). Conversely, selection of Quarter Tone settings can be sent by the Pa3XLe to an external MIDI recorder as System Exclusive data.

#### Scale

Selected scale. See "Scales" on page 439 for a list of the available scales. When selecting the User scale, the keyboard diagram becomes active, letting you program a custom scale (see "How to create a custom scale by fine-tuning each note of the User scale" below).

#### Key

This parameter is needed by some scales to set the preferred key (see "Scales" on page 439).

#### **Quarter Tone**

Press the Quarter Tone button in the display to make the keyboard diagram active. In the display, touch any note you want to lower a quarter tone, making a big dot appear on the note diagram. Touch the note again to make the dot disappear.



Touch one of the four SC Preset buttons to recall the corresponding preset, and touch any note you want to lower a quarter tone down, making a big dot appear on the detuned note in the diagram. Touch the note again to make the dot disappear.

Scale alteration made in this page is momentary and is not memorised. It is only meant to allow for fast scale alteration while playing.

To make realtime changes faster, you can also assign the Quarter Tone function to the footswitch or an Assignable Switch (see below "How to use the Quarter Tone function with a footswitch or Assignable Switch" for more information).

The use of SC Presets allows for immediate recall of previously programmed Quarter Tone scales (see below "How to use the Quarter Tone function with the SC Presets" for more information).

#### **SC Preset buttons**

*These buttons only appear when the "Quarter Tone" parameter is checked.* Use these buttons to recall the corresponding custom scale presets. See "How to use the Quarter Tone function with the SC Presets" below for information on how to use them.

#### Keyboard diagram

When "Quarter Tone" is checked, this diagram allows for lowering each note of a quarter tone. When a User scale is selected, it allows you to fine-tune each note's pitch.

#### Scale lock icon

When locked, Scale parameters remain unchanged when selecting a different Performance, STS or SongBook Entry.

For more information on parameter locks, see "General Controls > Lock" on page 255.

## How to create a custom scale by fine-tuning each note of the User scale

When the User scale is selected, the keyboard diagram becomes active. You can then change each note tuning in cents of a semitone (within a range of  $\pm$ 99 cents, referred to Equal tuning). This way, you can create a custom scale, that you can save to a Performance, STS or SongBook Entry.



Fine tuning values

After having selected the User scale, touch a note in the keyboard diagram, and use VALUE DIAL to adjust the selected note tuning in cents. *Note:* These settings can be saved to a Performance, STS or Song-Book Entry, as described below.

## How to use the Quarter Tone function with the SC Presets

When the "Quarter Tone" button is pressed, four "SC Preset" buttons appear, and you can select one of four SC Presets to recall a preset custom scale.

1. Program and save a custom scale into an SC Preset.

To do so, go to the Global mode, and reach the "Tuning > Scale" page. When programming is done, choose the "Write SC Preset" command from the page menu, then select one of the preset locations where to save the current settings (see "Write Quarter Tone SC Preset dialog box" on page 281).

- 2. Return to this page, and touch the "Quarter Tone" button to make the "SC Preset" buttons appear.
- **3.** Touch one of the "SC Preset" buttons to recall a preset custom scale.

Each preset contains custom detuning of each note of the scale, and memorizes the selected degree(s) of the scale.

When no preset is selected, the default scale is automatically recalled. This scale assigns a -50 cent value to all notes, and turns all scale degrees off.

You can also select an SC Preset by assigning the relevant function to an Assignable Switch (see "Pad/Switch > Switch" on page 129) or Assignable Footswitch (see "Controllers > Foot Controllers" on page 261).

**4.** Use the keyboard diagram to turn the note detuning on or off.

Make a big dot appear to detune the corresponding note, or make it disappear to reset tuning.

**5.** Reset the original scale.

Touch the "Quarter Tone button again, to deselect it and recall the main scale.

## How to use the Quarter Tone function with a footswitch or Assignable Switch

You can assign the "Quarter Tone" function to a footswitch or an Assignable Switch, to program a custom scale in realtime, for example to allow for those sudden scale changes typical of the Arabic music. These changes are not saved anywhere, so the scale is easily "wiped-out" when selecting a different Performance or STS, or when pressing the Quarter Tone pedal again.

**Note:** While in Style Play mode, you can create a custom scale, to be assigned to a Performance or STS, simply by selecting and editing a User scale, and saving any change to a Performance or STS. See "How to create a custom scale by fine-tuning each note of the User scale" above.

While in Global mode, you can create a custom scale and save it to one of the four SC Presets, and recall it by touching one of the SC Preset buttons in the display. Then, you can start your realtime scale editing from the selected preset. See "How to use the Quarter Tone function with the SC Presets" above.

**1.** Program the footswitch or an Assignable Switch to be the Quarter Tone switch.

Simply go to the Global mode, and reach the "Controllers > Foot Controllers" page. There, you will find the "Pedal/ Footswitch" parameter, to which you can assign the Quarter Tone function.

2. Lower some note pitches.

Keep the Quarter Tone pedal pressed. The keyboard will not play at this time. Press the notes you want to lower a quarter tone. Release the pedal.

**3.** Play with your new scale.

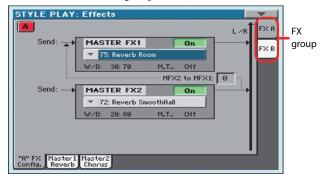
Notes you pressed on step 2 are now lowered of a quarter tone.

4. Reset the original scale.

Press and release the Quarter Tone pedal again, without playing any note. All pitches will be reset, and the scale selected by the Performance or STS will be recalled.

### Effects > A/B FX Configuration

This page allows you to select the A (Style and Pads) and B (Keyboard) groups of effects. Please use the "FX A" and "FX B" side tabs to switch from one group to the other one.



#### FX Groups (FX A, FX B)

Pa3XLe includes two groups of effects (FX A and FX B). There are two master FXs for group. In Style Play mode, the A group is reserved to the Style and Pad tracks, the B group to the Realtime (Keyboard) tracks.

#### Master FX 1, 2

Effects assigned to the corresponding effect processors. Usually, FX1 are reverbs, while FX2 are modulating effects (chorus, flanger, delay...). For a list of the available effects, see in the Appendix.

Effects assigned to both FX groups can be saved to a Performance or SongBook Entry. Effect assigned to the FX A group (Style and Pad tracks) can be saved to the Style Settings. Effects assigned to the FX B group (Keyboard tracks) can be saved to an STS.

#### W/D

Use this parameter to set the amount of the effect (Wet) against the non-effected (Dry) signal coming from the track.

#### MFX2 to MFX1

Amount of the MFX2 effect going back to the input of the MFX1 effect.

#### M.T. (Modulating Track)

Source track for modulating MIDI messages. You can modulate an effect parameter with a MIDI message generated by an internal physical controller.

### Effects > Master 1, 2

These pages contain the editing parameters for the four effect processors. Here is an example of the FX A page, with the Reverb Room effect assigned.

	Selected	effect			FX group
_					/
	STYLE PLAY:	ffects			-
	🚹 MFX 1 📑	75: Revert	o Room	On	FX A
1	Reverb Time Esec]:	1.4	High Damp [%]:	58	FX B
	Pre Delay Emsec]:	50	Pre Delay Thru [%]:	0	LUB .
	ER Level:	70			
	Reverb Level:	80			
	EQ Trim:	199			
	Pre LEQ Fo:	Low	Pre HEQ Fc:	High	
	Pre LEQ Gain EdB3:	-5.0	Pre HEQ Gain EdB3:	-12.0	
l	Wet/Dry:	30: 70	Src: 🔻 Off	Amt: +0	
	FX "A" Master1 M Config. Reverb	laster2 Chorus			
-					

FX parameters

#### Selected effect

Select one of the available effects from this pop-up menu.

#### **FX** parameters

Parameters may be different, depending on the selected effect. See the relevant chapter in the Appendix for a list of the available parameters for each effect type.

#### Wet/Dry

Use this parameter to set the amount of the effect (Wet) against the non-effected (Dry) signal coming from the track.

#### Src (Source)

Modulation source. To select the track generating this message, see the "M.T. (Modulating Track)" parameters found in the "Effects > A/B FX Configuration" page (see above). See the relevant chapter in the Appendix for a list of the modulation sources.

### Track Controls > Mode

This page lets you connect each track to the internal sound generator and to external MIDI devices. This is very useful to let a Style track drive an external expander, or play a digital piano with one of Pa3XLe's Keyboard tracks. In addition, here you can set the polyphony mode and track type for each track.

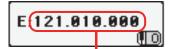
STYLE	PLAY:	Track	Control	3			-
Trk:Upp	er 1 G	rand P	iano RX	Fty	-Piano	121	.010.000
			Int.	Ezt.			
				Both	Both	Both	Both
			Ту	pe			
				Poly	Poly	Poly	Poly
						_	
DR/PERC	ACCOMP	BASS	Mute MIC/IN	Play LOWER	Mute UPPER3	Mute UPPER2	Play UPPER1
Mode	Drum Edit	Easy Edit					

#### Int./Ext. (Internal/External)

- Internal The track plays the sounds generated by the internal sound engine. It does not play an external instrument connected to the MIDI OUT.
- External The track plays an external instrument connected to the MIDI OUT. The connected device must receive on the MIDI channel associated with this track on the Pa3XLe (see "MIDI > MIDI Out Channels" on page 267).

A track set to this status cannot play the internal sounds.

Instead of the assigned Sound name, the <**E: aaa.bbb.ccc**> indicator is shown on a track's area in the Main page:



Control Change/Program Change area

This indicator begins with a remark saying the track is in External ("E") mode, and continues with a strings of transmitted Control Change and Program Change data. This will let you know what the track is transmitting to the MIDI OUT. In the following example, **CC#0** is the Control Change 0 (Bank Select MSB), **CC#32** is the Control Change 32 (Bank Select LSB), **PC** is the Program Change:



When touching the Sound area, the numeric keypad appears, instead of the Sound Select window. You can enter the Control Change/Program Change bundle shown above, separating the three parts with a dot (.). The track plays both the internal sounds and an external instrument connected to the MIDI OUT.

#### Туре

Drum

Drum/Percussion track. Set a track to Drum mode if you wish to separately adjust the volume and set a different output for each percussive family of the assigned Drum Kit Sound. (See "Track Controls > Drum Edit" on page 125).

> **Note:** Tracks set to Drum or Percussion mode while in Style Record (see "Track Type" on page 160) cannot be edited here. This option appears in grey. Other Style tracks cannot be set to Drum mode here.

> **Note:** Drum Kits are not affected by transpose whichever the type of track they are assigned to.

*Hint:* Set a Keyboard track to Drum mode, if you don't want the assigned Sound to be transposed (it will behave as a Drum Kit).

- Poly Tracks of this kind are polyphonic, i.e. they can play more than one note at the same time.
- Mono Tracks of this kind are monophonic, i.e. each new note stops the previous note.
- Mono Right A Mono track, but with priority assigned to the rightmost (highest) note.
- Mono Left A Mono track, but with priority assigned to the leftmost (lowest) note.

#### Play/Mute icon

Track's play/mute status.

- Play Play status. The track can be heard.
- Mute status. The track cannot be heard.

Both

### Track Controls > Drum Edit

In this page you can adjust the volume and edit the main parameters for each *family* of Drum and Percussion instrument for the selected track. A list of families is shown below.

These parameters can be accessed only on tracks set to the Drum mode (see above). Use them on tracks with a Drum Kit assigned, or you will not be able to hear any change.

*Hint:* Use the TRACK SELECT button to cycle between the track groups. After selecting a track, choose the "Solo Track" command from the page menu to avoid listening to the other tracks during editing.

**Note:** All values are offsets referred to the value of the original Sounds.



#### **Family Select**

Use these icons/buttons to select the drum family you want to edit. These buttons are only accessible when you select a Drum track.

Drum family icon	Drum family
×	Kick drums
\$11 <b>6</b>	Snare drums
	Toms
-	Hi-Hat cymbals
A	Ride, Crash and other cymbals
	Low-pitched percussions
A	High-pitched percussions
<b>N</b>	Special effects

#### Overview of the current parameter

Under the icons of the Drum families you can see the value of the selected parameter for all the families. This will let you compare the value of the selected family with all the others. The values are shown in grey (non editable).

#### **Drum Edit parameters**

Use these parameters to adjust the offset value.

Sound parameters	Meaning
Volume	Instrument's family volume.
Attack	Attack time. This is the time during which the sound goes from zero (at the moment when you strike a key) to it's maximum level.
Decay	Decay time. Time to go from the final Attack level to the minimum level.
Cutoff	Filter cutoff. This sets the sound brightness.
Resonance	Use the Filter Resonance to boost the cutoff fre- quency.
Fine Tune	Fine instrument tuning.
Coarse Tune	Coarse instrument tuning.
EQ Hi	Equalization, High band.
EQ Mid	Equalization, Middle band.
EQ Low	Equalization, Low band.
MFX 1 Send	Scales the Send level to the Master FX1.
MFX 2 Send	Scales the Send level to the Master FX2.
Ambience Vol	Volume of the Ambience effects (environment and mechanical noise).
Ambience T	Time of the Ambience effects (environment and mechanical noise).

- 0...127 Volume (see above).
- -64...0...+63 Offset value for all sound generation parameters. '0' means no change to the original value memorized in the Drum or Percussive instrument, while any other value means a decrease or increase to the original value.

#### Select

Use these buttons to select the track to edit. The button corresponding to the selected track turns green.

#### **Reset Family**

Touch this button to reset all changes to the selected family.

#### **Reset Track**

Touch this button to reset all changes to percussive instrument volumes in the selected track.

#### Play/Mute icon

Track's play/mute status.

Play Status. The track can be heard.

Mute Mute status. The track cannot be heard.

#### How to edit a single Drum Family

Here is a quick example of the use of the Drum Volume function.

- 1. While in this page, press TRACK SELECT to see individual Style tracks.
- **2.** Touch the "Select" button, in the display, corresponding to the Drum track to edit.
- **3.** Press START/STOP to let the Style go.

- **4.** If you like, choose the "Solo Track" command from the page menu to solo the Drum track.
- **5.** While listening to the Style, select the Snare family, then select the Volume parameter, and use the VALUE DIAL to turn the volume completely off.

You'll notice how all snares stops sounding.

**6.** Touch the Reset Track button in the display to recall the original Snare's volume.

### Track Controls > Easy Edit

In this page you can edit the main parameters of the Sounds assigned to each track.

**Hint:** Use the TRACK SELECT button to cycle between the track groups. After selecting a track, choose the "Solo Track" command from the page menu to avoid listening to the other tracks during editing.

**Note:** All values are offsets referred to the value of the original Sound.



#### **Easy Sound Edit parameters**

Use these knobs to adjust the offset value.

Sound parameters	Meaning
Attack	Attack time. This is the time during which the sound goes from zero (at the moment when you strike a key) to it's maximum level.
Decay	Decay time. Time to go from the final Attack level to the beginning of the Sustain.
Release	Release time. This is the time during which the sound goes from the sustaining phase, to zero. The Release is triggered by releasing a key.
Cutoff	Filter cutoff. This sets the sound brightness.
Resonance	Use the Filter Resonance to boost the cutoff fre- quency.
LFO Depth	Intensity of the Vibrato (LFO).
LFO Speed	Speed of the Vibrato (LFO).
LFO Delay	Delay time before the Vibrato (LFO) begins, after the sound starts.

-64...0...+63 Offset value. '0' means no change to the original value memorized in the Sound, while any other value means a decrease or increase to the original value.

#### Portamento knob and switch

Use the Time knob to adjust the speed of the portamento (a slide between notes). Check the box to turn portamento on, or uncheck it to turn portamento off.

#### Select

Use these buttons to select the track to edit. The button corresponding to the selected track turns green.

#### **Reset Track**

Touch this button to reset all changes to Sound parameters in the selected track.

#### **Reset All Tracks**

Touch this button to reset all changes to Sound parameters in all tracks.

#### Play/Mute icon

Track's play/mute status.

Play	Play status. The track can be heard.	

Mute status. The track cannot be heard.

## How to adjust sound parameters for a single Sound

Here is a quick example of the use of the Easy Sound Edit function.

- 1. If needed, while in this page press TRACK SELECT to see Keyboard tracks.
- **2.** Touch the "Select" button, in the display, corresponding to the Upper 1 track.
- **3.** While playing on the keyboard to hear the Sound, select the Cutoff knob, and use the VALUE DIAL to turn its value completely off.

You'll notice how the filter progressively cuts out high frequencies, making the sound darker and mellower.

**4.** Touch the Reset Track button in the display to recall the original Cutoff value (the shown Easy Edit value is '0').

### Keyboard/Ensemble > Key/Velocity Range

This page lets you program a key and dynamic (velocity) range for each of the Keyboard tracks.

Key range is useful to create a set of Keyboard tracks playing in different zones of the keyboard. For example, you may have French Horns and Woodwinds playing in the center range of the keyboard, while only Woodwinds play on the higher range.

Velocity range is useful to create a sound made of up to three dynamic layers, assigning each of the Upper tracks to a different dynamic range.

As an example, you may assign the El.Piano 1 Sound to the Upper 1, and the El.Piano 2 Sound to the Upper 2 track. Then, set Upper 1 to [Bottom=0, Top=80], and Upper 2 to [Bottom=81, Top=127]. The El.Piano 1 will play when playing softer, the El.Piano 2 when playing louder.



#### Top/Bottom Key (Key Range)

This parameter pair sets the Top and Bottom key range for the track.

C-1...G9 Selected key.

#### Top/Bottom Vel. (Velocity Range)

This parameter pair sets the Top and Bottom dynamic range for the track.

0 Lowest velocity value.

127 Highest velocity value.

#### Play/Mute icon

Track's play/mute status.



Play status. The track can be heard.

Mute

Mute status. The track cannot be heard.

### Keyboard/Ensemble > Ensemble

This page lets you program the Ensemble function. This function harmonizes the right-hand melody (played in realtime) using the recognized chords played by the left hand.

The Ensemble works both in the Style Play and the Song Play modes. Chords are always recognized in the Lower Chord Scan area.

*Note:* The Ensemble function only works when the keyboard is in Split mode.

			iano RX	,	- Hallo		.010.0
Ense							
Type:	▼ Blo	ск					
Note V	elocity/	: -2					
					Ensent	le Trk I	Assign
					Ensent Off	ole Trk ( 	Norma
			Mute	Play			

#### Ensemble

Harmonization type.

Tarmonizatio	on type.
Duet	Adds a single note to the melody.
Close	Adds a closed-position chord to the melody.
Open 1	Adds an open-position chord to the melody.
Open 2	As the above, but with a different algorithm.
Block	Block harmonization – very typical of jazz music.
Power Ensem	ble
	Adds a fifth and an octave to the melody, as heard in hard rock.
Third Up	This option adds a third over the melody note (depending on the recognized chord).
Fourths LO	Typical of jazz, this option adds two perfect fourths under the melody.
Fourths UP	As the above, but with notes added over the mel- ody.
Fifths	This adds two fifths below the original note.
Octave	Adds an octave below to the melody.
Dual	This option adds to the melody line a second note, at a fixed interval set with the "Note" parameter. When selecting this option, a transpo- sition value appears (-24+24 semitones to the original note).
Brass	Typical Brass section harmonization.
Reed	Typical Reed section harmonization.

- Trill When two notes are played on the keyboard, this option trills them. If three or more notes are played, only the last two are trilled. You can set the trill speed by using the Tempo parameter (see below).
- Repeat The played note is repeated in sync with the Tempo parameter (see below). When playing a chord, only the last note is repeated.
- Echo As the Repeat option, but with the repeated notes fading away after the time set with the Feedback parameter (see below).
- AutoSplit1 If more than a single Upper track is in play, the Upper 1 track plays the melody in mono, while the other Upper tracks play the chord notes.

If only the Upper 1 track is in play, it plays polyphonically all the chord notes.

AutoSplit2 Similar to AutoSplit1, but the Upper 1 track always plays the uppermost note.

#### **Note Velocity**

This parameter sets the velocity difference between the righthand melody and the added harmonization notes.

-10...0 Subtracted velocity value.

#### Tempo

*Note:* This parameter only appears when the Trill, Repeat or Echo options are selected.

Note value for the Trill, Repeat or Echo Ensemble options. This is in sync with the Metronome Tempo.

#### Feedback

**Note:** This parameter only appears when the Echo option is selected.

This parameter sets how many times the original note/chord is repeated by the Echo option.

#### **Ensemble Track Assign**

Use these parameters to separately set Upper tracks for the Ensemble function.

- Off There is no harmonization on this track.
- Normal This track is included in the harmonization.
- Mute This track only plays the Ensemble notes, but not the original note.

#### Play/Mute icon

Track's play/mute status.

Play Play status. The track can be heard.

Mute

Mute status. The track cannot be heard.

## Keyboard/Ensemble > Keyboard Control

This page lets you enable/disable the Damper and Expression pedals, plus the Joystick, for each of the Upper Keyboard tracks.

Trk:Lower	FIUTIE :	Strings	1 Fty	I-Strings	& VOC-121	
				Dam	DOC	
			_	Joyst	ick X	_
				Joyst	ick Y	
				Espre	ssion	
		Mute	Play	Mute	Mute	Play
DR/PERC ACCO	MP BASS	MIC/IN	LOWER	UPPER3	UPPER2	UPPER

#### Damper

On	When you press the Damper pedal and release the keys, the track's sound is kept sustained.
Off	The Damper pedal is not active on any track set to this status.

#### Joystick X

This enables/disables the left/right movement of the Joystick (Pitch Bend, and sometimes a Sound parameter's control; for Pitch Bend settings, see "Mixer/Tuning > Tuning" on page 120).

#### Joystick Y

This enables/disables the front/rear movement of the Joystick (Y+: Modulation, and sometimes a different Sound parameter's control; Y-: Various controls, or non-active).

#### Expression

This parameter allows you to switch the Expression control on/ off on each individual Keyboard track. The Expression control is a relative level control, always subtracted from the Volume value of the track.

As an example, imagine you have a Piano sound assigned to Upper 1, and a Strings sound assigned to Upper 2. If you turn the Expression switch on on Upper 2, and off on Upper 1, you can use a continuous pedal to control only the Strings' volume, while the Piano remains unchanged.

To program a pedal or Assignable Slider to act as an Expression control, see "Controllers > Foot Controllers" on page 261. You can only assign this function to a volume-type pedal, not to a switch-type one. Assign the "KB Expression" option to the pedal or Assignable Slider.

#### Play/Mute icon

Track's play/mute status.

Play Status. The track can be heard.

Mute status. The track cannot be heard.

### Pad/Switch > Pad

This page lets you select a different hit sound or sequence for each of the four PAD buttons.

– Pad –							Ъ
Pa Grv Brus	<b>d 1</b> sh	Pad Perc Shak		Pac Gtr Stee		Pad Synth Sec	
Volume:	62	Volume:	69	Volume:	97	Volume:	63
Pan:	C 00	Pan:	C 00	Pan:	L-05	Pan:	R+63
			FX S	Send			
Master	1: 15	Master 1:	54	Master	1: 37	Master 1	: 80
Master	2: 0	Master 2:	0	Master	2: 0	Master 2	: 0
			Q Gai	n EdBl			
Hi:	+0.0	Hi:	+0.0	Hi:	+0.0	Hi:	+0.0
Mid:	+0.0	Mid:	+0.0	Mid:	+0.0	Mid:	+0.0
Low:	+0.0	Low:	+0.0	Low:	+0.0	Low:	+0.0

Assignments can be saved into the current Style Settings or SongBook Entry.

**Note:** Each Style or SongBook Entry can change the Pad assignment.

#### Pad assignment

Name of the Hit or Sequence assigned to each Pad. Touch the box to make the Pad Select window appear (see "Pad Select window" on page 106).

**Note:** You can also choose Hits or Sequences from the Pad panel of the main page.

#### Volume

Volume for each of the four Pad tracks.

0...127 Volume level.

#### Pan

Pan for each of the four Pad tracks.

-641	Left stereo channel.

0	Center.

+1...+63 Right stereo channel.

#### FX Send (Master 1, 2)

Send level to the Master FX processors for each of the four Pad tracks. The Pads share the FX A group with the Style tracks.

0...127 Level of the Pad track (direct) signal sent to the effect processor.

#### EQ Gain [dB] (Hi, Mid, Low)

Equalization for each of the four Pad tracks.

-18.0...+0.0...18.0

Gain value of the High, Middle, or Low band.

#### Pad lock icon

This lock avoids selecting a different Style or SongBook Entry changes also the Hit or Sequence Pads assigned to the Pads.

For more information on parameter locks, see "General Controls > Lock" on page 255.

### Pad/Switch > Switch

This page lets you select a different function for each of the ASSIGNABLE SWITCH buttons.

STYLE PLAY: Pad/Assign.Switch	
Assignable Switch	
Switch 1 Sound Controller 1	8
Switch 2 Sound Controller 2	
Switch 3	
Pad Switch	

Assignable Switches can be saved into a Performance, STS or SongBook Entry.

#### Switch 1, 2, 3

Each of the ASSIGNABLE SWITCH buttons. Use these pop-up menus to assign a function to each switch. See "List of Assign-able Switches functions" on page 439.

#### **Assignable Switch lock icon**

This lock avoids selecting a different Performance, STS or Song-Book Entry changes also the functions assigned to the switches.

For more information on parameter locks, see "General Controls > Lock" on page 255.

### Style Controls > Drum/Fill

In this page you can select various general parameters for the Style.

STYLE PLAY: Controls		
Trk:Upper 1 Grand Piano RX	Fty-Piano	121.010.000
Drum Mapping		
Var.1: 💌 Off	Var.3: ▼ Off	
Var.2: ▼ Off	Var.4: ▼ Off	
Kick and Snare Designatio	n	
Kick: 🔽 Off	Snare: 💌 Off	
Play Play Play Play	Play Play F	lay Play
DRUM PERC BASS ACC1		CC4 ACC5
Drum KbdRng Fill Wrap		

#### Drum Mapping (Var.1...Var.4)

The Drum Mapping lets you select an alternative arrangement of percussive instruments for the selected Drum Kit, without any additional programming. Just select a Drum Map, and some percussive instruments will be replaced with different instruments.

Off	Standard 1	mapping.
-----	------------	----------

Drum Mapping 1...7

Drum Map number. Mapping 1 is "soft-sounding", while mapping 7 is "loud-sounding".

#### **Kick and Snare Designation**

The Kick Designation replaces the original Kick (Bass Drum) sound with a different Kick of the same Drum Kit, while the Snare Designation replaces the original Snare Drum sound with a different Snare of the same Drum Kit.

*Hint:* Select different Designations while listening to the Style, and see how they affect the Style. When you like the result, save your setting to a Performance or Style Settings.

Off Original Kick or Snare.

Type 1...3 Kick or Snare replacing the original one.

#### **Track status**

Track play/mute status. Touch these icons to change it.

Play Play status.	The track can be heard.
-------------------	-------------------------

Mute status. The track cannot be heard.

Style Controls > Keyboard Range On/Off / Wrap Around

In this page you can program the Wrap Around point, and turn on/off the Keyboard Range included in each Style tracks.



#### Keyboard Range On/Off

This parameter is an on/off switch for the Key Range parameter memorized inside each Style Element track.

On The Keyboard Range is considered – provided it has been programmed (see "Style Element Track Controls > Keyboard Range" on page 158 in Style Record mode). When a track goes over the lower or higher Keyboard Range point, it is automatically transposed, to stay in the programmed range.

Off No Keyboard Range used.

#### Wrap Around

The wrap-around point is the highest key range limit for the backing track. The accompaniment patterns will be transposed according to the detected chord. If the chord is too high, the Style tracks might play in a range that is too high, and therefore unnatural. If, however, it reaches the wrap-around point, it will be automatically transposed an octave lower.

The wrap-around point can be individually set for each track in semitone steps up to a maximum of 12 semitones, relative to the chord root set in Style Record mode (see "Key/Chord" on page 139).

It is advisable to set different Wrap Around points for each track, to avoid all tracks "jump" to a different octave at the same time. We suggest to consider the actual range of the real instrument.

1...12 Maximum transposition (in semitones) of the track, referred to the original key of the Style pattern.

#### Play/Mute icon

Track's play/mute status.

- Play Play status. The track can be heard.
- Mute status. The track cannot be heard.

### Page menu

Touch the page menu icon to open the menu. Touch a command to select it. Touch anywhere in the display to close the menu without selecting a command.

Write Performance
Write Single Touch Setting
Write Current Style Settings
Solo Track
Copy FX
Paste FX
Easy Mode

#### Write Performance

Select this command to open the Write Performance dialog box, and save most of the current control panel settings to a Performance.

See "Write Performance dialog box" on page 132 for more information.

#### Write Single Touch Setting

Select this command to open the Write Single Touch Setting (STS) dialog box, and save Keyboard track settings to one of the Single Touch Settings (STS) of the current Style.

See "Write Single Touch Setting dialog box" on page 132 for more information.

#### Write Current Style Settings

Select this command to open the Write Current Style Settings dialog box, and save Style track settings to the current Style.

See "Write Single Touch Setting dialog box" on page 132 for more information.

#### Solo Track

Select the track to be soloed, and check this item. You will hear only the selected track, and the 'Solo' warning will flash on the page header.

Uncheck this item to exit the Solo function.

The Solo function works in a slightly different way, depending on the selected track:

• *Keyboard track:* The selected Keyboard track is the only track you can hear when playing on the keyboard. All other Keyboard tracks are muted. The status of the Style tracks is unaffected.

• *Style track:* The selected track is the only Style track you can hear. All other Style tracks are muted. The status of the Keyboard tracks is unaffected.

• *Grouped Style tracks:* The Solo function does not work on these special tracks.

**SHIFT** Keep the SHIFT button pressed and touch one of the tracks to solo it. Do the same on a soloed track to deactivate the Solo function.

#### Copy/Paste FX

You can copy a single effect (Master 1, Master 2), or both effects of an FX group (A or B). You can copy them between different elements (for example, between Styles and Performances, or STSs and Songs or Sounds).

**Note:** This operation only copies the parameters of the "Effects" section. Parameters contained in other sections, like "Dry" or "FX Send", are not copied. Please note that these parameters are relevant in the overall sound of the effect, so please fine-tune them.

#### To copy a single effect:

- 1. Select the source Performance, STS, Style, Song or Sound.
- 2. Choose the source FX group (A or B) by touching the corresponding side tab.
- **3.** Go to the page of the single effect you want to copy (Master 1, Master 2).
- 4. Choose the "Copy FX" command from the page menu.
- 5. Select the target Performance, STS, Style, Song or Sound,
- 6. Choose the same FX group (A or B) as the target by touching the corresponding side tab.
- **7.** Go to the page of the single effect you want to paste (Master 1, Master 2).
- 8. Choose the "Paste FX" command from the page menu.

#### To copy all the effects in an FX group:

- Select the source Performance, STS, Style, Song or Sound, then go to the Effects > A/B FX Config page, to copy all the effects.
- **2.** Choose the source FX group (A or B) by touching the corresponding side tab.
- 3. Choose the "Copy FX" command from the page menu.
- **4.** Select the target Performance, STS, Style, Song or Sound, then go to the page of the Effects > A/B FX Config page.
- **5.** Choose the FX group (A or B) as the target by touching the corresponding side tab.
- 6. Choose the "Paste FX" command from the page menu.

#### **Easy Mode**

Easy Mode allows you to use the Style Play and Song Play modes with an easier-to-use user interface. It is recommended to beginners, and to professionals alike that do not want to deal with the extra parameters of the Advanced mode.

At any time, you can manually turn the Easy Mode on/off with the Easy Mode command in the page menu of the Style Play and Song Play modes.

### Write Performance dialog box

Open this window by keeping one of the PERFORMANCE buttons pressed for about one second, or by choosing the Write Performance item from the page menu. Here, you can save all track settings, the selected Style, and various Style settings to a Performance.

Write Performance		
Name: T Classic Grand EQ		
То		
Perf. Bank: Usr@1-Piano & E.Piano		
Performance: 02 - Classic Grand EQ		
Cancel OK		

#### Name

Name of the Performance to be saved. Touch the **T** (Text Edit) button next to the name to open the Text Edit window.

#### Perf Bank

Target bank of Performances. Each bank corresponds to one of the PERFORMANCE buttons. Use the VALUE DIAL to select a different bank.

#### Performance

Target Performance location in the selected bank. Use the VALUE DIAL to select a different location.

#### Select... button

Touch this button to open the Performance Select window, and select a target location.

### Write Single Touch Setting dialog box

Open this window by keeping one of the STS buttons pressed for about one second, or by choosing the Write Single Touch Setting item from the page menu. Here, you can save Keyboard track settings, and the Assignable Switch programming, to one of the four single Touch Settings (STS) belonging to the current Style.

	ite Single Touch Setting (STS)
Name:	T Nylon Guitar
	To
Current	Style: UnpluggedBallad1
STS:	💌 Ø1 Nylon Guitar

**Note:** When the "Factory Style and Pad Protect" option is checked in the Global > Mode Preferences > Media page, you cannot write an STS over a Factory Style. The "Write Single Touch Setting" command in the page menu is greyed out and cannot be selected. All original settings of the Factory Styles will be left untouched.

#### Name

Name of the STS to be saved. Touch the **T** (Text Edit) button next to the name to open the Text Edit window.

#### **Current Style**

*Non editable.* Settings are saved in one of the four STSs belonging to the current Style. This parameter displays the name of the "parent" Style.

#### STS

Target STS location. The name of the STS currently saved at the target location is shown. Use the VALUE DIAL to select a different location.

### Write Current Style Settings dialog box

Open this window by keeping one of the STYLE buttons pressed for about one second, or by selecting the Write Style Settings item from the page menu. Here, you can save Style track settings to the Style Settings of the current Style.

	То
Style Bank:	B06:Unplugged
Current Style:	@1:UnpluggedBallad

**Note:** When the "Factory Style and Pad Protect" option is checked in the Global > Mode Preferences > Media page, you cannot write any Style Settings onto Factory Styles. The "Write Current Style Settings" command in the page menu is greyed out and cannot be selected. All original settings of the Factory Styles will be left untouched.

#### Style bank

Non editable. Bank of Styles the current Style belongs to.

#### **Current Style**

Non editable. Name of the current Style.

### **The Favorite banks**

You can create a custom set of Styles, made of up to twelve Favorite banks. You can assign a different name to the tabs that appear in the Style Select window, in order to add musical genres not included among the Factory Styles.

The Favorite Styles are contained in twelve files, automatically created by the Pa3XLe inside the internal storage memory. Even if different bank names can appear in the display, these files have fixed names:

File Name	FAVORITE Banks
FAVORITE0112.STY	Bank 112

#### **Creating the Favorite banks**

There are various ways to create the Favorite banks:

- While in Style Play mode, you can copy & paste any Style into the Favorite banks, as an alternative to the User Style banks. See the "Selecting" chapter for more information on the Copy & Paste operations.
- While in Style Record mode, you can write the new or edited Style to the Favorite banks, as an alternative to the User Style banks. See the "Style Record" chapter for more information on saving a Style.
- While in Media mode, you can load any Style into the Favorite banks, as an alternative to the User Style banks. See the "Media" chapter for more information on the Load operations.

#### **Renaming the Favorite banks**

While the Style Select window is in the display, you can choose the "Rename Favorite" command from the page menu, and assign the Favorite Style tabs any name you like.



The assigned name can be spanned over two lines, by separating them with the paragraph character ( $\mathfrak{g}$ ). For example, to write "World Music" on two lines, enter "World Music".

Be careful not to write words exceeding the width of the side tabs of the Style Select window.

## Style/Pad Record

By entering the Style/Pad Record mode, you can create your own Styles or Pads, or edit an existing Style or Pad.

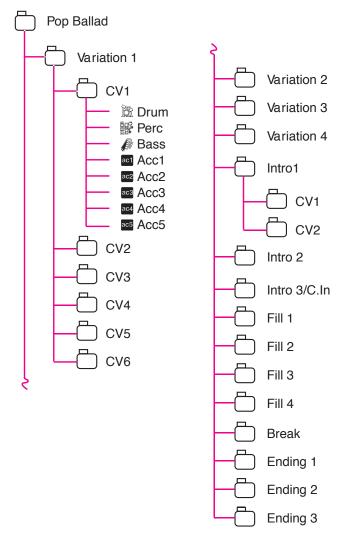
### **Recording Styles and Pads**

Styles and Pads share most of the same structure and recording/ editing operations. Here is how they are made.

#### The Style's structure

The term "Style" relates with music sequences automatically played by the arranger of the Pa3XLe. A Style consists of a predefined number of **Style Elements (E)** (Pa3XLe features fifteen different Style Elements: Variation 1-4, Intro 1-3, Fill 1-4, Break, Ending 1-3). When playing, most of these Style Elements can be directly selected by using the corresponding buttons on the control panel.

To explain the Style structure, we can use a tree structure, as shown in the following diagram:



Each Style Element is made up of smaller units, called **Chord Variations (CV)**, but not all of them have the same number of CVs. Variations 1-4 have up to 6 CVs each, while the other Style Elements have only up to 2 CVs.

When you play in the chord recognition area (Lower, Upper or Full, depending on the On or Off status of the SPLIT button), the arranger scans the keyboard and determines which chord you are playing. Then, depending on the selected Style Element, it determines which Chord Variation (CV) should be played for the scanned chord. Which Chord Variation corresponds to each scanned chord is a setting of the Style: the **Chord Variation Table**. Each Style Element contains a Chord Variation Table, whose prototype is the following:

Chord	Chord Variations (CVs)	
	Variation 1-4	Intro 1-2, Count-In, Fill 1-4, Break, Ending 1-3
Major		
6		
M7		
M7 ^(b5)		
sus		
sus2		
M7sus		
m		
m6		
m7		
m7 ^(b5)		
m( ^(M7)		
7	CV1 – CV6	CV1 – CV2
7 ^(b5)		
7sus4		
dim		
dim ^(M7)		
#5		
7 ^(#5)		
M7 ^(#5)		
1+5		
1+8		
b5		
dim7		

After deciding what CV to play, the arranger triggers the right sequence for each track. Since each sequence is written in a particular key (for example, CMajor, GMajor or Emin), the arranger transposes it according to the scanned chord. Notes in the sequence are carefully transposed, to make them work fine with all recognized chords.

Going deeper into the Style structure, we can see that each Chord Variation is made up of **Track Sequences**, and the Pa3XLe supports 8 different tracks. DRUM and PERC are used for drum and percussion sequences, BASS for bass and ACC1-5 are for accompaniment sequences (string, guitar, piano or other accompaniment instruments).

Just to summarize, when you play a chord on the chord recognition area, the arranger determines which Style Element is used, then determines which Chord Variation should be used for the played chord, then Style sequences for every track of that Chord Variation are transposed from the original chord to the recognized chord, and so on every time you play a chord.

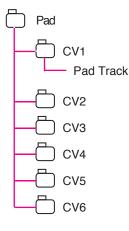
#### The Pad's structure

A Pad is basically a single-track Style. Most of what applies to Style recording also applies to Pad recording.

There are two different categories of Pads:

- "Hit" Pads. While they are mostly used as non-transposing events, they can also be transposing notes or chords. Basically, they are single-note or single-chord Sequences (see below).
- "Sequence" Pads, i.e., complex single-track patterns, that can be transposed by playing different chords on the keyboard

   exactly as a Style track. They are roughly equivalent to single-element, single-track, multi-chord variation Styles (see illustration).



Each Pad is made up of up to six smaller units, called **Chord Variations (CV)**. Each Chord Variation is made of a single track (the Pad track).

Exactly as with the Styles, when playing a chord in the chord recognition area, the corresponding Chord Variation is recalled. Recognized chords are associated to a Chord Variation by means of the **Chord Variation Table**. Each Pad contains a Chord Variation Table.

As with the Styles, the **Note Transposition Tables (NTT)** applies to the Pads.

The same differences between the different types of tracks applies (see "Track Type" on page 159).

#### **Ordinary, Guitar and Drum tracks**

There are different types of tracks (see "Track Type" on page 160), and each of them is treated in a different way by the arranger;

- Acc (Accompaniment) and Bass tracks: When a chord is recognized, the programmed chord notes are transposed to a suitable scale, according to the **Note Transposition Tables (NTT)** The NTT allows you to record just some Chord Variations, and have all the notes play in the right place, avoiding dissonances and transposing the pattern notes to the notes of the recognized chord.
- Drum & and Perc (Percussion) tracks: No transposition is applied. The original pattern plays always.

Gtr (Guitar) tracks: When a chord is recognized, the arranger triggers single notes, strumming and arpeggios on a "virtual guitar", keeping care of the way notes are played on the guitar fretboard. Note that inside a Guitar track you can also have some parts typical of an Acc track - a useful addition for short "free-form" passages.

#### What to record in a Style

Recording a Style means recording tracks, inside a series of Chord Variations, inside a series of Style Elements, inside the Style itself.

You don't have to record all Chord Variations for all Style Elements. It is often only needed to record a single Chord Variation for each Style Element. Exceptions are the Intro 1 and Ending 1, where we suggest to record both a Major and minor Chord Variations.

#### What to record in a Pad

Recording a Pad is a matter of recording a single track, inside a series of Chord Variations, inside the Pad itself.

You don't need to record all Chord Variations. It is often only needed to record just a Chord Variation.

#### Pattern data vs. track data

While the Style/Pad Record mode is where you can create or edit the music patterns, track parameters (like Volume, Pan, Octave Transpose, FX settings...) are to be edited in Style Play mode.

- After having created or edited music patterns in Style/Pad Record mode, save them by selecting the "Write Style" or "Write Pad" command from the page menu of the Style Record mode (see "Write Style/Pad dialog box" on page 166).
- After having edited track parameters in Style Play mode, save them to the Style Settings by selecting the "Write Current Style Settings" command from the page menu of the Style Play mode (see "Write Current Style Settings dialog box" on page 133).

#### Sounds

There are two ways of assigning Sounds to the Style tracks.

- While in Style Record mode you can assign different Sounds to each Style Element in the "Style Element Track Controls > Sound/Expression" page (see "Sounds area" on page 141). You can assign a Sound to the Pad in the same page of the Pad Record mode.
- While in Style Play mode, you can assign a single Sound to the Style Settings (together with the other track parameters), and this Sound will remains the same for all Style Elements. You can save this assignment by using the "Write Current Style Settings" command (see page 131).

Which Sounds are used by the Style tracks depends on the status of the "Original Style Sounds" parameter (see page 114).

**Note:** When assigning a Sound in Style Play mode, the "Original Style Sounds" parameter is automatically turned off.

### Style/Pad Import/Export

As an alternative to creating Styles on the Pa3XLe, you can import a Standard MIDI Files (SMF) from your computer to a Pa3XLe's Style. See "Import > Import SMF" on page 161 and "Export SMF" on page 164.

### **Entering the Style/Pad Record mode**

While in the Style Play operating mode, press the RECORD button. The following page will appear in the display:



You can edit Factory Styles or Pads, assuming the status of the "Factory Style and Pad Protect" parameter in the Global > Mode Preferences > Media page is set to Off (see page 260)

- Select Record/Edit Current Style to edit the current Style.
- Select **Record New Style** to start from a new, empty Style. Default Style Settings will be recalled. When finished recording, you will save the new Style onto a Favorite or User Style location. (Styles may also be saved onto Factory Style locations only when the "Factory Style and Pad Protect" parameter is set to Off).
- Select Record/Edit Pad to select an existing Pad to edit.
- Select **Record New Pad** to start from a new, empty Pad. When finished recording, you will save the new Pad into a User Pad location. (Pads can be saved into Factory Pad locations only when the "Factory Style and Pad Protect" parameter is set to Off).

After having edited the Style or Pad, please save it (see "Exit by saving or deleting changes" below) and exit the Style/Pad Record mode.

Then, edit the Style or Pad track settings.

• *With a Style:* Go to the Style Play mode, edit the Style Settings to adjust track settings (Tempo, Volume, Pan, FX Send... see page 117 and following in the "Style Play" chapter) and save it by selecting the "Write Current Style Settings" from the page menu (see "Write Current Style Settings dialog box" on page 133).

• *With a Pad:* Go to the Pad page of the Style Play mode, assign the new Hit or Sequence to a Pad button, and adjust the various Pad settings (Volume, Pan, and FX Send... see "Pad/Switch > Pad" on page 129). Finally, save the Pad settings by selecting the "Write Current Style Settings" command from the page menu.

**Note:** After a record or edit operation, the memory is automatically reorganized. Therefore, when you press START/STOP there is a delay before you can actually listen to the Style. This delay is higher with a Style containing more MIDI events.

**Note:** While in Record mode, the footswitch is disabled. On the contrary, volume/expression-type pedals can be used.

### Exit by saving or deleting changes

When finished editing, you can save your Style or Pad in memory, or abort any change.

• To save changes, select the "Write Style/Pad" command from the page menu (see "Write Style/Pad dialog box" on page 166).

• To abort all changes, select the "Exit from Record" command from the page menu, or press the RECORD button, to exit from record and return to the main page of the Style Play mode.

*Hint:* Save often while recording, to avoid accidentally losing your changes to the Style/Pad.

### Listening to the Style while in Edit mode

While you are in Style/Pad Record mode, you can listen to the selected Chord Variation or to the whole Style or Pad, depending on the page you are in.

To select a Chord Variation, go to the Main page of the Record/ Edit mode. For more details, see "Element (Style Element)" and "Chord Var (Chord Variation)" on page 138.

- When you are in the Main, Event Edit, Quantize, Transpose, Velocity, Cut or Delete pages, you can listen to the selected Chord Variation. Press START/STOP to check how it works. Press START/STOP again to stop the playback.
- When you are in the Sounds/Expression, Keyboard Range, Noise/Guitar, Chord Table, Trigger/Tension, Delete All, Copy, Style/Pad Element Controls or Style/Pad Control pages, as well as in the Inport and Export pages, you can listen to the whole Style or Pad. Press START/STOP and play some chords to do your tests. Select any Style/Pad Element using the control panel buttons (INTRO 1-3, VARIATION 1-4, FILL 1-4, AUTO FILL, BREAK, ENDING 1-3). Press START/STOP again to stop the playback.
- When you are in the Guitar Mode page, you can listen to the pattern you are programming, played in the selected Key.

**Note:** When entering Style Record mode, the Chord Recognition mode changes according to the mode that was selected while in Style Play mode. For a chord to be recognized, a minimum of three notes must be played.

Chord Recognition Mode	
Style Play mode	Style Record mode
One Finger	Fingered (3 Notes)
Fingered (1 Note)	Fingered (3 Notes)
Fingered (3 Notes)	Fingered (3 Notes)
Expert	Expert

*Note:* In this mode, the pattern is always played back in loop, even if the "Pad Type" parameter is set to "One Shot" (see page 159).

### List of recorded events

The Style/Pad Record mode filters out some events that may cause wrong operation of the Style or Pad. Here are the recorded events.

Control function	CC#		
Allowed			
Note On			
RX Noise On			
Pitch Bend			
Channel After Touch			
Modulation	1		
Breath	2		
Pan	10		
Expression	11		
CC#12	12		
CC#13	13		
Ribbon	16		
Damper (Hold 1)	64		
Filter Resonance (Harmonic Content)	71		
Low Pass Filter Cutoff (Brightness)	74		
CC#80 (General Purpose #5)	80		
CC#81 (General Purpose #6)	81		
CC#82 (General Purpose #7)	82		

**Note:** Some Control Change messages cannot be recorded directly by using the integrated controls of Pa3XLe.

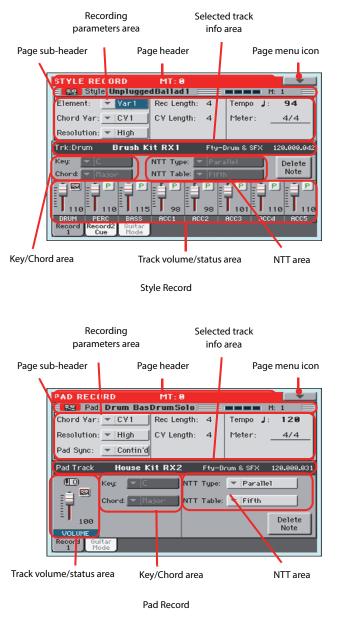
All allowed controllers can be assigned to an Assignable Pedal/ Slider/Switch.

MIDI Control Change messaged inserted by using a software on an external computer are imported when using the Import function ("Import > Import SMF" on page 161).

Some controllers are reset at the end of the pattern.

### Main page > Record 1

After having pressed the RECORD button, and having chosen whether you want to edit an existing Style or create a new one, the main page of the Style Record mode appears, with the tab "Record 1" selected.



#### Page header

This line shows the current operating mode and transposition.



#### **Operating mode name**

Name of the current operating mode.

#### **Master Transpose**

Master Transpose value in semitones. This value can be changed using the TRANSPOSE buttons on the control panel.

#### Page menu icon

Touch this icon to open the page menu. See "Page menu" on page 165.

#### Page sub-header

This area shows some performing info on the Style/Pad.



#### Style in record/edit

Name of the Style currently in edit or record.

#### **Beat counter**

This indicator shows the current beat.

#### **Measure number**

Current measure you are recording.

#### **Recording parameters area**

#### **Element (Style Element)**

(*Style only*) This parameter lets you select a Style Element for editing. Each Style Element corresponds to a button on the control panel carrying the same name. After selecting a Style Element, select a Chord Variation for actual editing (see below).

Var1...End3 This is the selected Style Element

#### **Chord Var (Chord Variation)**

This parameter lets you select a Chord Variation for editing (inside the selected Style Element or Pad).

**Note:** When this parameter and the assigned value is in small letters (cv1...cv6), the Chord Variation is empty; when it is in capitals (CV1...CV6), it is already recorded.

• If the Style Element is Var1, Var2, Var 3 or Var4, you can select one of 6 Chord Variations to edit.

• If the Style Element is Intro1, Intro2, Intro3, Fill1, Fill2, Fill3, Fill4, Ending1, Ending2 or Ending3, you can select one of 2 Chord Variations to edit.

• With a Pad you can choose one of the six available Chord Variations (CV1 ... CV6).

#### Resolution

Use this parameter to set the quantization during recording. Quantization is a way of correcting timing errors; notes played too soon or too later are moved to the nearest axis of a rhythmic "grid", set with this parameter, thus playing perfectly in time.

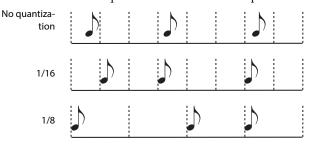
**Note:** To quantize after recording, use the Quantize function in the Edit section (see "Style/Pad Edit > Quantize" on page 152).

High No quantization applied.

(1/32)... (1/8)

Grid resolution, in musical values. For example, when you select 1/16, all notes are moved to the nearest 1/16 division. When you select 1/8, all

notes are moved to the nearest 1/8 division. A '3' after the quantization value means triplet.



#### Pad Sync

(*Pad only*) This parameter allows you to set a synchronization mode for the Pad's pattern.

Off

Continued

Beat

No synchronization. The sequence will start as soon as you press the PAD button.

nued The pattern will start immediately, in sync with the arranger's or active player's tempo. Depending on the current position of the beat counter, it might not start from its very beginning; instead, it will continue from the current position.

For example, if the arranger's or player's beat counter shows the third beat, and is playing tick 91, the Pad will start from its third beat, at tick 91.

The beat counter

This works exactly as if it was a Fill.

The sequence will start at the next beat, in sync with the arranger's or player's tempo. It will start from its very beginning (i.e., tick 1 or measure 1).

#### **Rec Length (Recording Length)**

This parameter sets the recording length (in measures) of the selected track. Its value is always equal to, or a divider of, the Chord Variation Length (see next parameter).

This is not the total length of the Chord Variation, but just of the current track. For example, you may have a Chord Variation eight measures long, with a drum pattern repeating each two measures. If so, set the CV Length parameter to "8", and the Rec Length parameter to "2" before starting recording the Drum track. When playing back the Style, saving it or executing any edit operation on the Style, the 2-measures pattern will be extended to the full 8-measures length of the Chord Variation.

**Warning:** If you assign a value lower than Rec Length to CV Length, the value of Rec Length is not immediately updated in the display. Therefore, you are still free of changing the value of CV Length, before the measures exceeding its value are deleted. For more details, see the warning in "CV Length (Chord Variation Length)" below.

However, if you press START/STOP to begin recording, the real Rec Length value is changed to the new one, even if the display still shows the old value.

For example, you may have CV Length = 4 and Rec Length = 4. If you set CV Length to 2, and press START/STOP to begin recording, Rec Length is still shown as 4, but it is in reality set to 2, and recording will cycle for just 2 measures. After you press START/ STOP to stop recording, Rec Length is updated to 2, and all measures after the second measure are deleted.

#### CV Length (Chord Variation Length)

This parameter sets the total length (up to 32 measures) for the selected Chord Variation. When playing a Style, this will be the length of the accompaniment pattern, when the chord corresponding to the Chord Variation is recognized on the keyboard.

**Warning:** If you reduce the Chord Variation Length after recording, any measure after the selected length will be deleted. Be very careful when setting the CV Length to a lower value after recording! If it happens, we suggest to exit from record without saving (see "Exit from Record" on page 165).

#### Tempo

Select this parameter to use the TEMPO controls to set the Tempo value.

**Note:** When recording Tempo, old data is always replaced by the new data.

**Note:** The actual Tempo of the Style will be the one shown when saving the Style Settings in Style Play mode (see "Current Tempo" on page 111).

#### Meter

This is the meter (time signature) of the Style Element or the Pad Sequence. You can edit this parameter only when the Style Element or Pad is empty, i.e. before you begin recording anything.

#### Selected track info area

This line lets you see the Sound assigned to the selected track.



#### Track name

Name of the selected track.

Drum...Acc5 Style track.

#### Sound name

Sound assigned to the selected track. You can touch the name to open the Sound Select window, and select a different Sound.

#### Sound bank

Bank the selected Sound belongs to.

#### **Program Change**

Program Change number sequence (Bank Select MSB, Bank Select LSB, Program Change).

#### **Key/Chord area**

#### Key/Chord

This parameter pair allows you to define the track's original key and chord type, for the current Chord Variation. When playing the pattern back, this chord will be played back exactly as it was recorded, without any NTT processing (see above).

**Note:** To conform to Korg specifications, it is advisable to record both the "Major" and "minor" Chord Variations for the Intro 1 and Ending 1 Style Elements.

When you select a track, the original key/chord assigned to the selected track will be shown. All recorded tracks will play back on that key/chord. For example, if the original key/chord for the Acc1 track is A7th, when selecting the Acc1 track all the remaining tracks will play on the A7th key/chord.

In the example above, you will record the Acc1 track in the AMajor key, with notes pertaining to the A7th scale. This exact pattern will be recalled, when an A7th chord will be recognized.

**Note:** This does not apply to Guitar Mode, relying on a different rule. See "Main page > Guitar Mode" on page 142 for more information.

#### **NTT Area**

#### NTT Type/Table

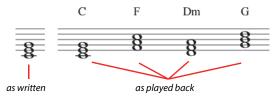
NTTs (Note Transposition Tables) are the sophisticated algorithms that allow Korg arrangers to convert recognized chords into musical patterns. The Note Transposition Table (NTT) determines how the arranger will transpose pattern notes, when a chord is recognized that does not exactly match the original chord of a Chord Variation. For example, if you only recorded a Chord Variation for the CMaj chord, when a CMaj7 is recognized on the keyboard the arranger must transpose some notes to create the missing 7th.

Note: These parameters cannot be selected with Drum or Percussion tracks, and are therefore greyed out.

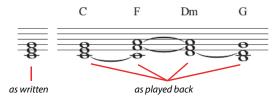
*Note: NTT* parameters are separately programmed for each track of the Style Element.

There are two general types of NTTs:

• When *Parallel* types are selected, notes are transposed inside the area set by the Wrap Around parameter. These tables are ideally suited to melody parts.



• When Fixed types are selected, the arranger moves as few notes as possible, making legato lines and chord changes more natural. They are ideally suited to chord tracks (strings, piano etc...).



Note: To conform to Korg specifications, it is advisable to set the NTT to "No Transpose" on the Intro 1 and Ending 1.

Parallel/Root The root note (in CMaj = C) is transposed to the missing notes.

Parallel/Fifth The 5th note (in CMaj = G) is transposed to the missing notes.



Parallel/i-Series

All original patterns must be programmed on the "Maj7" or "min7" chords. When loading old Korg i-Series Styles, this option is automatically selected.





Parallel/No Transpose

- The chord is not modified, and is moved to the new key unchanged. The pattern plays exactly the recorded notes, and is moved to the new key as is. This is the standard setting of Intro 1 and Ending 1 in Korg's original Styles (where a chord progression is usually recorded, and should remain unchanged in any key).
- Fixed/Chord This table moves as few notes as possible, making legato lines and chord changes more natural. It is ideally suited to chord tracks (strings, piano etc...). Contrary to the Parallel mode, the programmed chord is not transposed according to the Wrap Around parameter, but always stays around its original position, looking for common notes between the chords.

Fixed/No Transpose

The programmed notes can only be transposed by the Master Transpose. They are never transposed when chords are changed.

### **Delete Note button**

Use this command to delete a single note or a single percussive instrument from a track. For example, to delete a snare, keep the D2 note (corresponding to the snare) pressed.

- 1. Select a track.
- 2. Touch the "Delete Note" button, and keep it pressed.
- **3.** Press START/STOP to start the Style.
- 4. When you reach the passage containing the note to be deleted, play the note on the keyboard. Keep it pressed, up to the last note to be deleted.
- 5. When finished, release the Delete button and the note to be deleted, and press START/STOP again to stop the Style.

**Note:** If the note is at the beginning of the pattern, press the note before starting the Style.

### Tracks volume/status area

### Virtual slider(s)

Drag a virtual sliders on the display to change the volume of the corresponding track.

As an alternative, touch a track to select it, and use VALUE DIAL to change the value.

### **Track status icons**

Status of tracks. Touch this icon to change the status.

- Play status. The track can be heard.
- MI

<u>.</u>

They status. The truck can be near a.

TI J

Mute status. The track cannot be heard.

Record status. After starting recording, the track will receive notes from the keyboard and the MIDI IN connector.

#### **Track names**

(Style only) Under the sliders, a label for each track is shown.

Drum...Acc5 Shown Style tracks.

### Main page > Record 2/Cue

(*Style only*) While in the main page, touch the "Record 2/Cue" tab to see this page. Most parameters in this page are the same as in "Main page > Record 1". In addition, here you can see and select Sounds for each Style track, and the Cue mode for the Style Element.



### Sounds area

This area lets you see Sounds and octave transposition for the eight Style tracks.



### Octave transpose icon

*Non editable.* This indicator shows the track's octave transposition. Tracks will be recorded with the selected octave transposition. To change this value, use the UPPER OCTAVE buttons, or go to the "Mixer/Tuning > Tuning" edit page in the Style Play mode (see page 120). Save this value to the Style Settings.

#### Sound bank's icon

This picture illustrates the bank the current Sound belongs to. Touch an icon a first time to select the corresponding track (detailed information are shown on the Selected Track Info area, see the "Main page > Record 1" page above). Touch it a second time to open the Sound Select window.

**Note:** These Sounds can be replaced by Sounds selected by a Performance, provided the "Original Style Sounds" parameter is left unchecked in Style Play mode (see page 114).

#### Cue area

#### Cue mode for [Style element]

This parameter lets you decide how the current Style Element will enter after it has been selected. This setting is only available for the 'Variation' and 'Fill' Style Elements.

Immediate, first measure

The Style Element enters immediately, and begins from the first measure. *Only available on Fills.* 

Immediate, current measure

The Style Element enters immediately, and begins from the current measure. *Only available on Fills.* 

### Next measure, first measure

The Style Element enters at the beginning of the next measure, and begins from the first measure of the new pattern. *Available on both Fills and Variations.* 

Next measure, current measure

The Style Element enters at the beginning of the next measure, and begins from the current measure. *Only available on Variations*.

### Main page > Guitar Mode

While in the main page, and a Guitar track has been selected, touch the "Guitar Mode" tab to see this page. This is where you can access Guitar Mode programming:

STYLE RECORD	MT:0	-	M:	
Element: Var 1	4		mpo J:	94
Chord Var: 💌 CV1	CY Length:	4 M	^{eter:} –	4/4
Resolution: Vigh		Chu		
Key/Chord Key: 🔽 F#	Capo	Str High:	ings 1	Delete
Chord: m7		Low:	- 6	Note
Record Record2 Guita				
1 Cue Mod				

**Note:** To access this page, a Guitar track must first be selected (see "Track Type" on page 160). The Pad track must be of Guitar type (Pad Track Controls > Sound/Expression page, see "Track Type" on page 159). Otherwise, the Guitar Mode tab will remain grey (not selectable).

**Note:** When programming a Guitar track from an external sequencer, you must be sure the Guitar tracks is associated to the right channel. Go to the Global > MIDI > MIDI IN Channels page, and assign the corresponding Style track (usually Acc1 ~ Acc5) to the same channel of the Guitar track on the external sequencer. Then, go to the Style Record > Style Track Controls > Type/Tension/Trigger page, and set the track as a track of type "Gtr" (see "Track Type" on page 160).

Guitar Mode allows for easy creation of realistic rhythm guitar parts, without the artificial, unmusical playing typical of MIDI programming of guitar parts. Just record a few measures, and you will end up with realistic rhythm guitar tracks, where each chord is played according to its real position on the guitar, and not generated by simply transposing a written pattern.

### **Recording overview**

Recording a Guitar track is unlike recording the other tracks, where you play exactly all the notes of a melody line or all the chords of an accompaniment part. With Guitar tracks you can:

*a*) play the keys corresponding to the strumming modes,

*b)* play an arpeggio using the six keys corresponding to the six guitar strings (and the special keys corresponding to the root and fifth notes),

*c*) play RX Noises to add realism to the pattern,

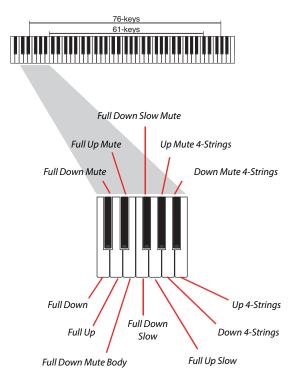
*d*) add regular patterns, for short melodic passages without wasting an Acc track,

*e)* use the finest MIDI programing to select Chord Shapes, and recreate any nuance of a guitar performance.

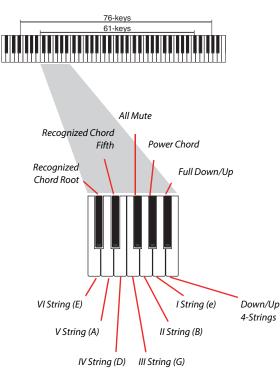
The following sections describe the various control keys available for this guitar simulation.

### **Recording strumming types**

The octave from C1 to B1 is devoted to selecting a *strumming type*. By pressing these keys, you play fast strumming samples:



This octave also includes an 'all mute' key (F#):



### **Recording RX Noises**

Further on, the upper octaves are used to trigger *RX Noises:* 76-keys

61-keys

### **Recording single strings**

The octave from C2 to B2 is devoted to selecting a *single string* (or more than one) for playing arpeggios or power chords. You can either play a free arpeggio with the six guitar chords assigned to the C~A keys, or play one of the faster sampled arpeggios on the higher keys. The root note is always available on the C# key, while the fifth note is always assigned to the D# key; with them, you can always play the lowest notes of an arpeggio.

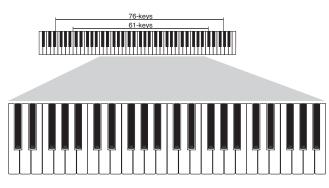
### Selecting a Capo

Together with strumming types, single strings and RX Noises, you can choose a Capo ("capotasto"). Note that this might prevent some single strings to sound, depending on the composed chord. You can always see which strings are playing and which are not, as described in "Diagram" on page 145.

RX Noises

### **Recording a regular pattern**

Together with strums and arpeggios, you can record regular patterns, exactly as if the track was of Acc type (see "Track Type" on page 160). This will save an Accompaniment track, when all you need is just to record some short melodic passages (for example, the closing of a strumming pattern). You can record the pattern by playing it in the range shown by the diagram.



### **Recording a Chord Shape**

You can finely choose Chord Shapes by using MIDI messages. When you play a C0 note with the velocity value shown in the following table, a chord is played in a particular position and on a certain number of strings.

Vel.	Range	from Str.	to Str.	Position
0	6 Strings	I	VI	0
1	6 Strings	I	VI	0
2	6 Strings	I	VI	1
3	6 Strings	I	VI	2
4	6 Strings	I	VI	3
5	6 Strings	I	VI	4
6	6 Strings	I	VI	5
7	5 Strings Bass	II	VI	0
8	5 Strings Bass	II	VI	1
9	5 Strings Bass	II	VI	2
10	5 Strings Bass	II	VI	3
11	5 Strings Bass	II	VI	4
12	5 Strings Bass	Ш	VI	5
13	5 Strings Treble	I	V	0
14	5 Strings Treble	I	V	1
15	5 Strings Treble	I	V	2
16	5 Strings Treble	I	V	3
17	5 Strings Treble	I	V	4
18	5 Strings Treble	I	V	5
19	4 Strings Bass	III	VI	0
20	4 Strings Bass	III	VI	1
21	4 Strings Bass	III	VI	2
22	4 Strings Bass	III	VI	3
23	4 Strings Bass	III	VI	4
24	4 Strings Bass	III	VI	5
25	4 Strings Middle	II	V	0
26	4 Strings Middle	Ш	V	1
27	4 Strings Middle	Ш	V	2
28	4 Strings Middle	II	V	3
29	4 Strings Middle	II	V	4
30	4 Strings Middle	II	V	5
31	4 Strings Treble	ļ	IV	0
32	4 Strings Treble	I	IV	1
33	4 Strings Treble	I	IV	2

Vel.	Range	from Str.	to Str.	Position
34	4 Strings Treble	1	IV	3
35	4 Strings Treble		IV	4
36	4 Strings Treble	1	IV	5
37	3 Strings Bass	IV	VI	0
38	3 Strings Bass	IV	VI	1
39	3 Strings Bass	IV	VI	2
40	3 Strings Bass	IV	VI	3
41	3 Strings Bass	IV	VI	4
42	3 Strings Bass	IV	VI	5
43	3 Strings MiddleBas	Ш	V	0
44	3 Strings MiddleBas	Ш	V	1
45	3 Strings MiddleBas	Ш	V	2
46	3 Strings MiddleBas		V	3
47	3 Strings MiddleBas		V	4
48	3 Strings MiddleBas		V	5
49	3 Strings MiddleTreble		IV	0
50	3 Strings MiddleTreble		IV	1
51	3 Strings MiddleTreble		IV	2
52	3 Strings MiddleTreble		IV	3
53	3 Strings MiddleTreble		IV	4
54	3 Strings MiddleTreble		IV	5
55	-	1		0
56	3 Strings Treble			1
	3 Strings Treble			2
57	3 Strings Treble			
58	3 Strings Treble			3
59	3 Strings Treble			4
60	3 Strings Treble		 \//	5
61	2 Strings Bass	V	VI	0
62	2 Strings Bass	V	VI	1
63	2 Strings Bass	V	VI	2
64	2 Strings Bass	V	VI	3
65	2 Strings Bass	V	VI	4
66	2 Strings Bass	V	VI	5
67	2 Strings MiddleBas	IV	V	0
68	2 Strings MiddleBas	IV	V	1
69	2 Strings MiddleBas	IV	V	2
70	2 Strings MiddleBas	IV	V	3
71	2 Strings MiddleBas	IV	V	4
72	2 Strings MiddleBas	IV	V	5
73	2 Strings Middle		IV	0
74	2 Strings Middle	III	IV	1
75	2 Strings Middle	Ш	IV	2
76	2 Strings Middle	Ш	IV	3
77	2 Strings Middle	Ш	IV	4
78	2 Strings Middle	III	IV	5
79	2 Strings MiddleTreble	Ш	Ш	0
80	2 Strings MiddleTreble	Ш	=	1
81	2 Strings MiddleTreble	Ш	Ш	2
82	2 Strings MiddleTreble	II	Ш	3
83	2 Strings MiddleTreble	Ш	=	4
84	2 Strings MiddleTreble	II	III	5
85	2 Strings Treble		П	0
86	2 Strings Treble	l	11	1

Vel.	Range	from Str.	to Str.	Position
87	2 Strings Treble	I	Ш	2
88	2 Strings Treble	I	Ш	3
89	2 Strings Treble	I	Ш	4
90	2 Strings Treble	I	II	5

### Choosing a Key/Chord for Intro 1 and Ending 1

The pattern is recorded in the key indicated by the Key/Chord pair of parameters. However, this parameter is only used for playback by the Intro 1 and Ending 1 Style Elements. All other Style Elements will be played back according to the recognized chord.

With Intro 1 and Ending 1 (both Chord Variation 1 and 2) you can also prefer to enter a chord progression, to be played on the lowest MIDI octave (C-1  $\sim$  B-1). Chord types are inserted by using velocity values, as shown in the following table:

Vel.	Chord Type	Vel.	Chord Type
1	Major	2	Major 6th
3	Major 7th	4	Major 7th flatted 5th
5	Suspended 4th	6	Suspended 2nd
7	Major 7th suspended 4th	8	Minor
9	Minor 6th	10	Minor 7th
11	Minor 7th flatted 5th	12	Minor major 7th
13	Dominant 7th	14	7th flatted 5th
15	7th suspended 4th	16	Dimished
17	Diminished major 7th	18	Augmented
19	Augmented 7th	20	Augmented major 7th
21	Major w/o 3rd	22	Major w/o 3rd and 5th
23	Flatted 5th	24	Diminished 7th

### **Playing back the pattern**

When in Stye Play mode, the recorded Guitar pattern is transposed according to the chord recognized on the keyboard. The way it is transposed depends on the programmed pattern, with the chosen positions, strumming mods, etc...

### **Guitar mode parameters**

Here is a detailed description of the parameters of the Guitar Mode page.

### Key/Chord

This parameter pair allows you to define the track's original key and chord type. This parameter works in a different way than the other tracks. While with other tracks this is always the reference key used for NTT transposition, with Guitar tracks there is a difference, whether you are recording a Chord Variation contained in an Intro 1 or Ending 1 Style Element, or any other Chord Variation:

- With Intro 1 and Ending 1, this chord will be used as the reference key for the chord progression.
- With all the other Chord Variations, this chord will be used only for listening during recording. During playback in Style Play mode, the chord will follow chord recognition.

### Capo - Fret

A capo (from the Italian "capotasto", "head of fingerboard") is a movable bar attached to the fingerboard of the guitar, to uniformly raise the pitch of all the strings. Its use makes the strings shorter, therefore changing the timbre and position of the chords (but not its shape).

0	Open string – no ca	po.

I...X Position of the capo over the fingerboard (i.e., "I" corresponds to the first fret, "II" to the second one, and so on).

### Strings - High/Low

Use this pair of parameters to choose the strings the pattern will be played on.

1...6 Position of the capo over the fingerboard (i.e., "I" corresponds to the first fret, "II" to the second one).

### Diagram

The diagram shows how a chord would be composed on the fingerboard. Here is the meaning of the various symbols:

Red dot	Fingered string (i.e., played note).
White dot	Fifth, playing on the D#2 key.
Х	Non played or muted note.
Light grey bar	Barré (a finger crossing all the st

Light grey bar Barré (a finger crossing all the strings, like a mobile capo).

Dark grey bar Capo.

### Style/Pad Record procedure

There are two different methods for recording a Style/Pad: Realtime and Step.

- Realtime Recording allows you to record Style/Pad patterns in realtime.
- Step Recording allows you to create a new Style/Pad by entering single notes or chords in each track. This is very useful when transcribing an existing score, or needing a higher grade of detail, and is particularly suitable to create drum and percussion tracks.

In addition, you can program a Style/Pad on a personal computer, and then import it via the Import function (see "Import > Import SMF" on page 161).

### **Preparing to record**

- 1. If you like to edit an existing Style/Pad, select it.
- 2. Press the RECORD button to enter the Style/Pad Record mode. You are prompted to either select the Current Style or an existing Pad, or create a New Style or Pad.

Select "Record/Edit Current Style" or "Record/Edit Current Pad" if you want to edit the current Style/Pad, or make a new Style/Pad starting from an existing one. Select "Record New Style/Pad" if you want to start from scratch with an empty Style/Pad.

- **3.** After you select your preferred option, the main page of the Style/Pad Record mode will appear.
- **4.** Use the Element (Style Element) (*Style only*) and Chord Var (Chord Variation) parameters, to select the Chord Variation to be recorded/edited.

**Note:** For more information on the Style Elements and Chord Variations, and the Style/Pad structure in general, see "The Style's structure" on page 134 or "The Pad's structure" on page 135.

- **5.** Use the Rec Length (Recording Length) parameter to set the length (in measures) of the pattern to record.
- **6.** Use the Meter parameter to set the Style Element's or Pad's meter (time signature).

**Note:** You can edit this parameter only if you selected the "Record New Style/Pad" option when entering the Record mode, or when editing an empty Style Element.

- 7. Select the Tempo parameter and set the Tempo.
- 8. (*Style only*) Touch the Record 2 tab to see the Sounds area. Here you can assign the right Sound to each Style track.

(*Pad only*) Press the SOUND button to select a Sound to be assigned to the Pad track.

- **9.** If needed, set the Octave Transpose for each track. *Note: The Octave Transpose will affect only the notes coming from the keyboard, and not from the arranger.*
- **10.** At this point, if you want to do a Realtime Recording go on reading "Realtime Record procedure" below. Otherwise, if you prefer to do a Step Record, jump to "Step Record procedure" on page 147.

### **Realtime Record procedure**

1. Select the track to record. Its status icon will turn to 'Record'. (For more details, see "Tracks volume/status area" on page 141).

Note: When entering the Record mode, a track is already in Record status. When you press START/STOP after entering the Record mode, you can immediately start recording.

If you like, you can try your part before recording:

• Mute the track, by repeatedly touching its icon status,

until the 📶 (Mute) status icon appears.

• Press START/STOP to let any recorded track play back, and practice on the keyboard.

• When you have finished practicing, press START/STOP to stop the arranger, and unmute the track by repeatedly touching its icon status, until the 2 (Record) status icon appears again.

2. While the shown status icon is Record, press START/STOP to begin recording. A 1-bar precount will play before the recording actually begins. When it begins, play freely. The pattern will last for some measures, according to the Rec Length value, then restart.

Since the recording will happen in overdub, you can add notes on any following passage. This is very useful to record different percussive instruments at any cycle on a Drum or Percussion track.

**Note:** While recording, the track's **Keyboard Range** (see page 158) is ignored, and notes can be recorded and played back over the whole keyboard range. The **Local** parameter (see "Local Control On" on page 265) is also automatically set to On, to allow playing on the keyboard.

**3.** When finished recording, press START/STOP to stop the arranger. Select a different track, and go on recording the full Chord Variation.

*Note:* You can select a different track only when the arranger is not running.

- **4.** When finished recording the Chord Variation, select a different Chord Variation or Style Element *(Style only)* to go on recording the full Style/Pad.
- 5. When finished recording the new Style/Pad, select the "Write Style/Pad" command from the page menu, to open the Write Style/Pad dialog box (see "Write Style/Pad dialog box" on page 166) and save it to memory.

To exit the Style/Pad Record mode without saving any change, select the "Exit from Record" command from the page menu, or press the RECORD button.

### **Step Record procedure**

- 1. While in the main page of the Style/Pad Record mode, select the "Overdub Step Recording" command from the page menu, to enter the Overdub Step Record mode.
- **2.** The "Pos" parameter shows the current position.

• If you do not want to insert a note or chord at the current position, insert a rest instead, as shown in step 4.

• To jump to the next measure, filling the remaining beats with rests, touch the Next M. button in the display.

- **3.** To change the step value, use the "Step Time values" area in the display.
- 4. Insert a note, rest or chord at the current position.

• To insert a single note, just play it on the keyboard. The inserted note length will match the step length. You may change the velocity and relative duration of the note, by editing the "Duration" and "Velocity" parameters (see page 168).

• To insert a rest, just touch the Rest button in the display. Its length will match the step value.

• To tie the note to be inserted to the previous one, touch the Tie button in the display. A note will be inserted, tied to the previous one, with exactly the same name. You don't need to play it on the keyboard again.

• To insert a chord or a second voice, see "Chords and second voices in Step Record mode" on page 187.

- **5.** After inserting a new event, you may go back by touching the Back button in the display. This will delete the previously inserted event, and set the step in edit again.
- 6. When the end of the pattern is reached, the "End of Loop" event is shown, and the recording restarts from the "001.01.000" position. Any note exceeding the pattern length, inserted at its end, will be reduced to fit the total length of the pattern.

At this point, you may go on, inserting new events in overdub mode (the previously inserted events will not be deleted). This is very useful when recording a drum or percussion track, where you may want to record the bass drum on a first cycle, the snare drum on the second cycle, and the hi-hat and cymbals during the following cycles.

**7.** When finished recording, touch the Done button in the display to exit the Step Record mode.

A dialog box appears, asking you to either cancel, discard or save the changes.

Exit F	rom Step R	ecord
	ce has been ch want to save i	
Cancel	No	Yes

If you touch Cancel, exit is canceled, and you can continue editing. If you choose No, changes are not saved, and the Step Record window is closed. If you choose Yes, changes are saved, and the Step Record window is closed.

- 8. When back to the main page of the Style Record mode, you may turn all tracks to the play status, then press START/ STOP to listen to the Style. Press START/STOP again to stop the playback.
- **9.** From the main page of the Style Record mode, select the "Write Style/Pad" command to save, or the "Exit from Record" command to exit from the Style/Pad Record mode (see "Write Style/Pad dialog box" on page 166), or by canceling any change.

### **Chords and second voices**

With Pa3XLe, you are not limited to inserting single notes in a track. There are several ways to also insert chords and double voices. For more information, see "Chords and second voices in Step Record mode" on page 187.

### **Edit menu**

From any page (apart for Step Record), press the MENU button to open the Style Record or Pad edit menu. This menu gives access to the various Style/Pad Record edit sections.

When in the menu, select an edit section, or press EXIT to exit the menu and return to the main page. To return to the main page, you can also select the Main Page menu item.

When in an edit page, press the EXIT button to return to the main page of the Style Record mode.



Style Record menu



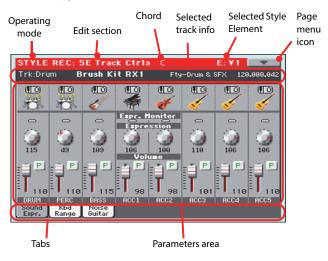
Pad Record menu

**Note:** While the Style/Pad is in play, you cannot access the Edit section pages from the main page (see page 137). Stop the playback before pressing MENU.

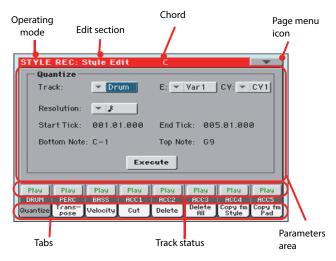
**Note:** When switching from the Edit section pages (Quantize, Transpose, Velocity, Delete) to the other pages, or vice-versa, the Style (if in play) is automatically stopped.

### **Edit page structure**

Most edit pages share some basic elements.



Other pages have a slightly different structure.



### **Operating mode**

This indicates that the instrument is in Style/Pad Record mode.

### **Edit section**

This identifies the current edit section, corresponding to one of the items of the edit menu (see "Edit menu" on page 148).

#### Chord

(Style only) Chord in edit.

### **Selected Style Element**

(*Style only*) In Style Record mode, edits always happen on the selected Style Element.

#### Page menu icon

Touch this icon to open the page menu (see "Page menu" on page 165).

#### **Parameters area**

Each page contains various parameters. Use the tabs to select one of the available pages. For detailed information on the various types of parameters, see sections starting from page 149.

### **Track status**

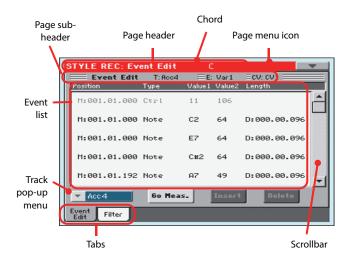
Use these buttons to mute/unmute tracks while editing.

#### Tabs

Use tabs to select one of the edit pages of the current edit section.

### **Event Edit > Event Edit**

The Event Edit is the page where you can edit each single MIDI event of the selected Chord Variation. You can, for example, replace a note with a different one, or change its playing strength (i.e., velocity value). See "Event Edit procedure" on page 150 for more information on the event editing procedure.



### **Page header**

See "Page header" on page 137.

### Page menu icon

Touch this icon to open the page menu. See "Page menu" on page 165.

### Page sub-header

This area shows some performing info on the Song.



#### Selected track

(*Style only*) Name of the track in edit. Use the Track pop-up menu to select one of the Style tracks.

#### SE/CV (Style Element/Chord Variation)

Selected Style Element (*Style only*) and Chord Variation. This parameter cannot be edited. To select a different Style Element and Chord Variation, press EXIT to go back to the main page of the Style/Pad Record mode (see "Main page > Record 1" on page 137).

### **Event list**

Use the Event list to see all events contained in the selected track in the selected Style Element.

Use the scrollbar to browse through the events. You can also scroll by using the SHIFT + VALUE DIAL combination.

Touch the event to be selected. Selected events are highlighted and can be heard.

#### Position

Position of the event, expressed in the form 'aaa.bb.ccc':

- 'aaa' is the measure
- 'bb' is the beat
- 'ccc' is the tick (each quarter beat = 384 ticks)

You can edit this parameter to move the event to a different position. You can edit a position in either of the following ways:

- (a) select the parameter, and use the VALUE DIAL to change the value, or
- (b) select the parameter, then touch it again; the numeric keypad will appear. Enter the new position by dialing in the three parts of the number, separated by a dot. Zeroes at the beginning can be omitted, as well as the least important parts of the number. For example, to enter position 002.02.193, dial "2.2.193"; to enter position 002.04.000 dial "2.4"; to enter position 002.01.000, simply dial "2".

### Type, Value 1, Value 2

Type and values of the event shown in the display. Depending on the selected event, the value may change. This parameter also shows the (greyed-out, so non editable) "CC#11" (Expression) event at the beginning of the pattern, and the "End Of Track" marking, when the end of a track is reached.

To change the event type, select the Type parameter, then use the VALUE DIAL to select a different event type. A set of default values will be automatically assigned to the event.

To select and edit the event's value, select the corresponding parameter, and use VALUE DIAL.

#### Length

Length of the selected Note event. The value format is the same as the Position value. This is only available for Note events.

**Note:** If you change a length of "000.00.000" to a different value, you can't go back to the original value. This rather uncommon zero-length value may be found in some drum or percussion tracks.

### Scrollbar

Use the scrollbar to browse the event through the list. (As an alternative, use SHIFT + VALUE DIAL).

### **Other elements**

#### Track pop-up menu

Use this pop-up menu to select the track to edit, inside the current Chord Variation.

Drum...Acc5 Style track.

### Go Meas.

While the Style is not running, touch this button to open the Go to Measure dialog box:



When in this dialog box, select a target measure, and touch OK. The first event available in the target measure will be selected.

### Insert

Touch the Insert button in the display to insert a new event at the current shown Position. The default values are Type = Note, Pitch = C4, Velocity = 100, Length = 192.

### Delete

Touch the Delete button in the display to delete the event selected in the display.

### **Event Edit procedure**

Here is the general procedure to follow for the event editing.

- Select the Style/Pad to edit, and press the RECORD button. Select the "Current Style/Pad" option to enter recording. The main page of the Style/Pad Record mode will appear.
- **2.** Select the "Element (Style Element)" (*Style only*) and "Chord Var (Chord Variation)" parameters.

*Note:* For more information on the Style Elements and Chord Variations, and the Style structure in general, see "The Style's structure" on page 134.

- **3.** Press MENU, and select the Event Edit section. The Event Edit page appears (see "Event Edit > Event Edit" on page 149 for more information).
- 4. Press START/STOP to listen to the selected Chord Variation. Press START/STOP to stop it. Chord Scanning does not work, so you will listen the pattern at the original Key/ Chord.
- 5. Touch the Filter tab to select the Filter page, and uncheck the filters for the event types you wish to see in the display (see "Event Edit > Filter" on page 151 for more information).
- 6. Touch the Event Edit tab to go back to the Event Edit page.
- **7.** (*Style only*) Use the Track pop-up menu to select the track to edit (see "Track pop-up menu" on page 150).
- 8. The list of events contained in the selected track (inside the Chord Variation selected on step 2) will appear in the display. Some events on the beginning of the Chord Variations, as well as the "EndOfTrk" event (marking its ending point) cannot be edited, therefore appearing in grey.

- 9. Scroll though the various events by using the scrollbar.
- **10.** Select an event to be edited by touching it in the display. This is usually a note, that you can edit.

M:001.01.000 Note C#2 64 D:000.00.096

For more information on the event types and their values, see "Event Edit > Event Edit" on page 149.

Edit the event.

• Select the "M" parameter. Use VALUE DIAL to change the event's position.

• Select the Type parameter. You may use VALUE DIAL to change the event type, as well as its Value 1 and Value 2.

• If a Note event is selected, select the Length parameter, and use VALUE DIAL to change the event's length.

- **12.** You may use the Go Meas. command to go to a different measure (see "Go Meas." on page 150)
- **13.** As described in step 4, you may press START/STOP to listen how the pattern sounds after your changes. Press START/STOP again to stop the pattern running.
- 14. Touch the Insert button in the display to insert an event at the Position shown in the display (a Note event with default values will be inserted). Touch the Delete button in the display to delete the selected event.
- **15.** When editing is complete, you may select a different track to edit (go to step 7).
- **16.** When finished editing the selected Chord Variation, press EXIT to go back to the main page of the Style Record mode, then go to step 2 to select and edit a different Chord Variation.
- 17. When finished editing the whole Style, select the "Write Style/Pad" command from the page menu to open the Write Style/Pad dialog box (see "Write Style/Pad dialog box" on page 166), or select the "Exit from Record" command to cancel all changes.

• Touch the **T** (Text Edit) button to enter the Text Edit dialog box. Enter a name and confirm by selecting OK.

• Select a target memory location where to save the Style/ Pad. The name of the Style/Pad already existing at the selected location is shown after the Bank-Location number.

**Warning:** If you select an existing Style/Pad and confirm writing, the older Style/Pad is deleted and replaced by the new one. Save the Styles/Pads you don't want to lose to a storage device, before overwriting them.

18. Touch OK to save the Style/Pad to the internal memory, or Cancel to delete any changes made in Style/Pad Record mode. When the "Are you sure?" message appears, touch OK to confirm, or Cancel to go back to the "Write Style" or "Write Pad" dialog box.

### **Event Edit > Filter**

This page is where you can select the event types to be shown in the Event Edit page.

STYLE REC: Event Edit	с 💽
Filter	
Note/RX Noise	After Touch
Program	Poly After Touch
Control	Pitch Bend
Tempo/Meter	Pa Controls
Event Edit Filter	

Turn On the filter for all event types you do not wish to see in the Event Edit page.

**Note:** Some of the events are "ghosted", and non editable, since the corresponding events are not editable in a Style/Pad.

Note/RX Noise

Notes and RX Noises.

Control Control Change events. Only the following Control Change numbers are allowed with Styles/ Pads.

Control function	CC# (Control Change Number)
Modulation 1	1
Modulation 2	2
Pan	10
Expression ^(a)	11
CC#12	12
CC#13	13
Ribbon	16
Damper	64
Filter Resonance	71
Low Pass Filter Cutoff	74
CC#80	80
CC#81	81
CC#82	82

(a). Expression events cannot be inserted at the starting Position (001.01.000). An Expression value is already among the default "header" parameters of the Style Element or Pad Track.

Tempo/Meter Tempo and Meter (time signature) changes (Master Track only).

Pitch Bend Pitch Bend events.

### Style/Pad Edit > Quantize

The quantize function may be used to correct any timing mistake after recording, or to give the pattern a "groovy" feeling.

STYLE REC: Style Edit	C 🗾
Quantize	
Track: Trum	E: Var1 CV: CV1
Resolution: 💌 🎜	
Start Tick: 001.01.000	End Tick: 005.01.000
Bottom Note: C-1	Top Note: G9
Exe	cute
Play Play Play Play DRUM PERC BASS ACC1 Quantize Pose Velocity Cut	Play Play Play Play ACC2 ACC3 ACC4 ACC5 Delete Delete Copy fm Pad

After setting the various parameters, touch Execute.

#### Track

(Style only) Use this parameter to select a track.

All All tracks selected.

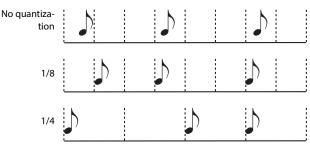
Drum...Acc5 Selected track.

### E / CV (Style Element/Chord Variation)

Use these parameters to select the Style Element (*Style only*) and Chord Variation for editing.

### Resolution

This parameter sets the quantization after recording. For example, when you select 1/8, all notes are moved to the nearest 1/8 division. When you select 1/4, all notes are moved to the nearest 1/4 division.



### (1/32)... (1/4)

Grid resolution, in musical values. A "b...f" character added after the value means swing-quantization. A "3" means triplet.

### Start / End Tick

Use these parameters to set the starting and ending points of the range to quantize.

If a Chord Variation is four measures long, and you want to select it all, the Start will be positioned at 1.01.000, and the End at 5.01.000.

### Bottom / Top Note

Use these parameters to set the bottom and top of the keyboard range to quantize. If you select the same note as the Bottom and

Top parameters, you can select a single percussive instrument in a Drum or Percussion track.

**Note:** These parameters are available only when a Drum or Percussion track is selected.

### Execute

Touch this button to execute the operation set in this page.

### **Track status icon**

Status of tracks. Touch this icon to change the status.

Play	Play status. The track can be heard.
------	--------------------------------------



Mute status. The track cannot be heard.

### Track names

Under the buttons, a label for each track is shown.

### Style/Pad Edit > Transpose

In this page you can transpose the selected track(s).

**Note:** After transposing, please don't forget to readjust the "Key/ Chord" parameter in the main page of the Style Record mode (see page 139).

STYLE REC: S	tyle Edit	C		-		
Transpose -						
Track:	▼ Drum	E: 💌 Var 1	CV: 💌	CV1		
Value:	0					
Start Tick:	001.01.000	End Tick: 00	5.01.000	)		
Bottom Note:	C-1	Top Note: G9				
	Execute					
Play Play	Play Play	Play Play	Play	Play		
DRUM PERC	BASS ACC1	ACC2 ACC3	ACC4	ACC5		
Quantize Trans-	Jelocity Cut	Delete Delete All	Copy fm Style	Copy fm Pad		

After setting the various parameters, touch Execute.

#### Track

(Style only) Use this parameter to select a track.

All All tracks selected, apart for tracks set in Drum mode (like the Drum and Percussion tracks). The whole selected Chord Variation will be transposed.

Drum...Acc5 Single selected track.

### E / CV (Style Element/Chord Variation)

Use these parameters to select the Style Element (*Style only*) and Chord Variation for editing.

### Value

Transpose value (±127 semitones).

### Start / End Tick

Use these parameters to set the starting and ending points of the range to be transposed.

If a Chord Variation is four measures long, and you want to select it all, the Start will be positioned at 1.01.000, and the End at 5.01.000.

### Bottom / Top Note

Use these parameters to set the bottom and top of the keyboard range to be transposed. If you select the same note as the Bottom and Top parameters, you can select a single percussive instrument in a Drum or Percussion track. Since in a Drum Kit each instrument is assigned to a different note of the scale, transposing a percussive instrument means assigning the part to a different instrument.

### Execute

Touch this button to execute the operation set in this page.

### **Track status icon**

Status of tracks. Touch this icon to change the status.



Play status. The track can be heard.

Mute

Mute status. The track cannot be heard.

### Track names

Under the buttons, a label for each track is shown.

### Style/Pad Edit > Velocity

In this page you can change the velocity (dynamics) value of notes in the selected track. An Advanced mode is available, allowing you to select a velocity curve for the selected range. This is useful to create fade-ins or fade-outs.



After setting the various parameters, touch Execute.

**Note:** When an RX Sound is assigned to the track being edited, the resulting sound may change, since this kind of Sounds is made of several different layers triggered by different velocity values.

Also, a fade-out may result in the level "jumping" up next to the zero, since a higher-level layer may be selected by low velocity values.

### Track

(Style only) Use this parameter to select a track.

- All All tracks selected. The velocity for all notes of the whole selected Chord Variation will be changed.
- Drum...Acc5 Selected track.

### E / CV (Style Element/Chord Variation)

Use these parameters to select the Style Element (*Style only*) and Chord Variation for editing.

### Value

Velocity change value  $(\pm 127)$ .

### Start / End Tick

Use these parameters to set the starting and ending points of the range to be modified.

If a Chord Variation is four measures long, and you want to select it all, the Start will be positioned at 1.01.000, and the End at 5.01.000.

### Bottom / Top Note

Use these parameters to set the bottom and top of the keyboard range to be modified. If you select the same note as the Bottom and Top parameters, you can select a single percussive instrument in a Drum or Percussion track.

### Advanced

When this checkbox is checked, the "Intensity", "Curve", "Start Velocity Value" and "End Velocity Value" parameters can be edited.

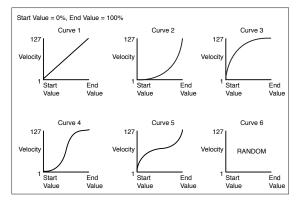
### Intensity

(Only available in Advanced mode). Use this parameter to specify the degree to which the velocity data will be adjusted toward the curve you specify in "Curve".

0...100% Intensity value. With a setting of 0 [%], the velocity will not change. With a setting of 100 [%], the velocity will be changed the most.

### Curve

(Only available in Advanced mode). Use this parameter to select one of the six curves, and to specify how the velocity will change over time.



### Start / End Vel. Value

(*Only available in Advanced mode*). Velocity change at the starting and ending ticks of the selected range.

0...100 Velocity change in percentage.

### Execute

Touch this button to execute the operation set in this page.

#### **Track status icon**

Status of tracks. Touch this icon to change the status.

Play

Play status. The track can be heard.



Mute status. The track cannot be heard.

### **Track names**

Under the buttons, a label for each track is shown.

### Style/Pad Edit > Cut

This function lets you quickly delete a selected measure (or a series of measures) from the selected Chord Variation. All following events are moved back, to replace the cut measure(s).

STYLE REC: S	
Start: 1	Length: 1
	Execute
Play Play DRUM PERC Quantize Trans- pose	Play Play Play Play Play Play BASS ACC1 ACC2 ACC3 ACC4 ACC5 Velocity Cut Delete Delete Copy fm Style Style

After setting the various parameters, touch Execute.

### E / CV (Style Element/Chord Variation)

Use these parameters to select the Style Element (*Style only*) and Chord Variation for editing.

#### Start

First measure to be cut.

### Length

Number of measures to be cut.

### Execute

Touch this button to execute the operation set in this page.

#### **Track status icon**

Status of tracks. Touch this icon to change the status.

Play Play status. The track can be heard.

Mute status. The track cannot be heard.

### **Track names**

Under the buttons, a label for each track is shown.

### Style/Pad Edit > Delete

This page is where you can delete MIDI events out of the Style/ Pad. This function does not remove measures from the pattern. To remove whole measure, use the Cut function (see "Style/Pad Edit > Cut" on page 154)

STYLE REC: S	tyle Edit	C		
Delete				
Track:	▼ Drum	E: 💌 Var 1 🔤 CV: 💌	CV1	
Event:	▲ All			
Start Tick:	001.01.000	End Tick: 005.01.0	90	
Bottom Note:	C-1	Top Note: G9		
Execute				
Play Play	Play Play	Play Play Play	Play	
DRUM PERC	BASS ACC1	ACC2 ACC3 ACC4	ACC5	
Quantize Trans- pose	Velocity Cut	Delete Delete Copy fr All Style	n Copy fm Pad	

After setting the various parameters, touch Execute.

### Track

(Style only) Use this parameter to select a track.

All All tracks selected. After deletion, the selected Chord Variation will remain empty.

Drum...Acc5 Selected track.

### E / CV (Style Element/Chord Variation)

Use these parameters to select the Style Element (*Style only*) and Chord Variation for editing.

### Event

Type of MIDI event to delete.

Type of MIDI	event to delete.
All	All events. The measures are not removed from the Chord Variation.
Note	All notes in the selected range.
Dup.Note	All duplicate notes. When two notes with the same pitch are encountered on the same tick, the one with the lowest velocity is deleted.
After Touch	After Touch events.
Pitch Bend	Pitch Bend events.
Prog.Change	Program Change events, excluding the bundled Control Change #00 (Bank Select MSB) and #32 (Bank Select LSB).
	<i>Note:</i> This kind of data is automatically removed during recording.
Ctl.Change	All Control Change events, for example Bank Select, Modulation, Damper, Soft Pedal
CC00/32CC	C127 Single Control Change events. Double Control Change numbers (like 00/32) are MSB/LSB bun- dles.
	<b>Note:</b> Some CC data are automatically removed during recording. See the table on page 137 for more information on the allowed data.

#### Start / End Tick

Use these parameters to set the starting and ending points of the range to delete.

If a Chord Variation is four measures long, and you want to select it all, the Start will be positioned at 1.01.000, and the End at 5.01.000.

### **Bottom / Top Note**

Use these parameters to set the bottom and top of the keyboard range to delete. If you select the same note as the Bottom and Top parameters, you can select a single percussive instrument in a Drum or Percussion track.

**Note:** These parameters are available only when the All or Note option is selected.

#### Execute

Touch this button to execute the operation set in this page.

### **Track status icon**

Status of tracks. Touch this icon to change the status.



Play status. The track can be heard.



Mute status. The track cannot be heard.

#### **Track names**

Under the buttons, a label for each track is shown.

### Style/Pad Edit > Delete All

This function lets you quickly delete a selected Style Element or Chord Variation, or the whole Style.

STYLE REC:	Style Edit	C		_
Delete Al	1			
Track:	▼ Drum	E/CV:	💌 Var1	
	E	xecute		
Play Play	Play   Play	y Play	Play Play	Play
DRUM PERC	BASS ACC		ACC3 ACC4	ACC5
Quantize Trans-	Velocity Cut	t Delete	Delete Copy fm All Style	Copy fm Pad

After setting the various parameters, touch Execute.

### Track

(Style only) Use this parameter to select a track.

- All All tracks of the selected Style, Style Element or Chord Variation.
- Drum-Acc5 Single track of the selected Style, Style Element or Chord Variation.

### E / CV (Style Element/Chord Variation)

Use these parameters to select the Style Element (*Style only*) and Chord Variation for editing.

All All Style Elements, i.e. the whole Style. When E/ Track=All and CV=All, the whole Style is deleted, and all parameters are set to the default status.

Var1...CountIn

Single Style Element.

V1-CV1...CI-CV2

Single Chord Variation.

### Execute

Touch this button to execute the operation set in this page.

### Track status icon

Status of tracks. Touch this icon to change the status.

- Play Status. The track can be heard.
- Mute Mute status. The track cannot be heard.

### Track names

Under the buttons, a label for each track is shown.

### Style/Pad Edit > Copy from Style

Here you can copy a track, Chord Variation or Style Element inside the same Style, or from a different one. Furthermore, you can copy a whole Style.

*Warning:* The Copy operation deletes all data at the target location (overwrite).

STYLE REC: Style Edit C	
Copy	
From Style: <current> Select.</current>	
From E/CV: Var1 To E/CV: Var1	
	- 11
From Track: V Drum To Track: V Drum	
Execute	
Play Play Play Play Play Play Play	Play
DRUM PERC BASS ACC1 ACC2 ACC3 ACC4	ACC5
Quantize Trans- Velocity Cut Delete Delete Copy fm RIII Style	Copy fm Pad

After setting the various parameters, touch Execute.

**Note:** If you copy too many events on the same tick, the "Too many events!" message appears, and the copy operation is aborted.

**Note:** When you copy over an existing Chord Variation, Program Change data is not copied, to leave the original Sounds unchanged for that Chord Variation.

### From Style

Choose this option to select the source Style to copy the track, Chord Variation or Style Element from. Touch the **Select** button to open the Style Select window and select the source Style.

### From... To E/CV (Style Element/Chord Variation)

Use these parameters to select the source and target Style Elements or Chord Variations.

**Note:** You can't copy from a Variation to a different Style Element (or vice-versa), because of their different structure.

All All Style Elements, i.e. the whole Style. You can't change the target, that is automatically set to All.

Var1...End2 Single Style Element.

V1-CV1...E2-CV2

Single Chord Variation.

### From... To Track

Use this parameter to select the source and target track to copy. You can double a track, to strengthen a pattern.

All	All tracks of the selected Style, Style Element or
	Chord Variation.

Drum-Acc5 Single track of the selected Style, Style Element or Chord Variation.

### Execute

Touch this button to execute the operation set in this page.

### **Track status icon**

Status of tracks. Touch this icon to change the status.



Play status. The track can be heard.

Mute

Mute status. The track cannot be heard.

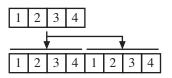
### **Track names**

Under the buttons, a label for each track is shown.

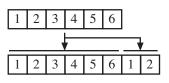
# Copying to a Chord Variation of a different length

You can copy a Chord Variation to a different one of a different length. Just keep in mind the following:

• If the source length is a divider of the target length, the source Chord Variation will be multiplied to fit the target Chord Variation. For example, if the source is 4-measures long, and the target 8-measures, the source will be copied two times.



• If the source length is not a divider of the target length, the source Chord Variation will be copied for as many measures as can fit the target Chord Variation. For example, if the source is 6-measures long, and the target 8-measures, the source will be copied once, then the first 2 measures will be copied to fit the remaining 2 measures.



**Note:** Avoid copying to a Chord Variation with a different meter (time signature), for example a 4/4 Chord Variation onto a 3/4 one.

### Style/Pad Edit > Copy from Pad

Here you can copy a Chord Variation from a Pad. Furthermore, you can copy a whole Pad.

*Warning:* The Copy operation deletes all data at the target location (overwrite).

STYLE REC: Style Edit	t C 🛛 🗖 🔽
Copy	
From Pad: <no pad="" seq.<="" th=""><th>.&gt; Select</th></no>	.> Select
From CV: 💌 All	To E/CV: 💌 Yar1 To Track: 💌 Drum
	Execute
	Play Play Play Play Play ACC1 ACC2 ACC3 ACC4 ACC5
Quantize Trans- Velocity	Cut Delete Delete Copy fm Copy fm All Style Pad

After setting the various parameters, touch Execute.

**Note:** If you copy too many events on the same "tick", the "Too many events!" message appears, and the copy operation is aborted.

**Note:** When you copy over an existing Chord Variation, Program Change data is not copied, to leave the original Sounds unchanged for that Chord Variation.

### From Pad

Choose this option to select the source Pad to copy the Chord Variation from. Touch the **Select** button to open the Pad Select window and select the source Pad.

### From CV (Chord Variation)

Use this parameter to select the source Chord Variation.

- All All Chord Variations, i.e. the whole Pad. You can't change the target, that is automatically set to All.
- CV1...CV6 Single Chord Variation.

### To CV (Chord Variation)

Use this parameter to select a target Chord Variation inside the current Style/Pad.

CV1...CV6 Target Chord Variation. Automatically set to All if the "From CV" parameter is also set to All.

### To Track

(Style only) Use this parameter to select the target track to copy.

- All All tracks of the selected Style, Style Element or Chord Variation.
- Drum-Acc5 Single track of the selected Style, Style Element or Chord Variation.

### Execute

Touch this button to execute the operation set in this page.

# Style Element Track Controls > Sound/Expression

In this page you can assign a different Sound to each track of the selected Style Element. Each Style Element can have different Sound; after saving the new Style, please don't forget to check the "Original Style Sounds" parameter in the Style Play mode (see page 114), to let the Style select the Sound bypassing the Style Settings.

In this page you can also check and modify the Expression (CC#11) value for each of the Style Element tracks. This lets you reduce the relative level of a track in a single Style Element, without reducing the overall Volume of the Style. This is a very useful control, when you have different Sounds assigned to the same track in different Style Elements, and the internal level of these Sounds must be different.



When in this page, press the corresponding button on the control panel to select a Style Element (VARIATION1 ... ENDING3).

To copy the settings of this page to another Style Element, use the "Copy Sounds" and "Copy Expression" commands from the page menu (see "Copy Sounds dialog box" and "Copy Expression dialog box" starting from page 166).

### **Selected Track Info area**

See "Selected track info area" on page 139 for detailed information.

### Sounds area

See "Sounds area" on page 141 for detailed information.

### **Expression** area

### **Expression Monitor**

You can use these indicators to check if CC#11 (Expression) messages are contained in a track. Expression messages contained in a track can vary the volume of the track. It is very difficult to catch them out – unless you carefully read all the events in the Event Edit page.

This monitor should help you keeping track of them, and let you access Event Edit only on the tracks containing the messages. Press the START/STOP button to start playback, and look at the indicators. When one of them lights up, you can enter Event Edit on the corresponding track, and edit or remove the Expression messages.

### Expression

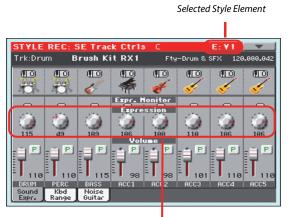
Use these knobs to set the Expression (CC#11) value for the corresponding track. This value can be seen at the beginning of the Event Edit list (see "Event Edit > Event Edit" on page 149).

Different Expression values can be defined for each Style Element. This way, you can set a different volume in each Style Element, relative to the general Volume value set in the Style Header.

### **Expression leveling**

You can quickly and easily adjust the Expression level of all tracks in a Style Element (Variation, Intro...). This allows for a more precise control over the volume level of all Style Element.

**1.** While in this page, select one of the Style Elements by pressing its button in the control panel.



Expression level

- 2. Keep the SHIFT button pressed, and press the TEMPO+ button to increase the Expression value of all the Style Variation's tracks, TEMPO- to decrease it.
- **3.** Release the SHIFT button.
- **4.** Repeat the above operation with all the desired Style Elements.

**Note:** A track's volume may be changed by an Expression event contained in a track. To check if any of these events exist in a track, let the Style Element play and look at the Expression Monitor in this same page. If one or more Expression events are found, go to the Event Edit page and delete it (or them)

### Volume area

Use these controls to set the volume and status of each track. See page 141 for more information.

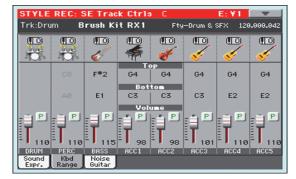
The Volume value is the same for the whole Style. Use the Expression controls to adjust the relative balance between tracks in each Style Element.

# Style Element Track Controls > Keyboard Range

The Keyboard Range automatically transposes any pattern note that would otherwise play too high or too low in pitch, compared to the original acoustic instrument, when transposed by the arranger. This will result in a more natural sound for each accompaniment instrument.

For example, the lower limit for a guitar is E2. If you play a chord under the E2, the transposed pattern could exceed this limit, and sound unnatural. A Bottom limit set to E2 for the guitar track will solve the problem.

Different Keyboard Range values can be set for each Style Element.



**Note:** The Keyboard Range is ignored while recording. The selected track can be recorded and played back on the full range of the keyboard.

# When in this page, press the corresponding button on the control panel to select a Style Element (VARIATION1 ... ENDING3).

To copy the settings of this page to another Style Element, use the "Copy Keyboard Range" command from the page menu (see "Copy Key Range dialog box" on page 167).

### **Top/Bottom**

Use these parameters to set the bottom and top of the keyboard range for the corresponding track of the current Style Element.

### Volume area

Use these controls to set the volume and status of each track. See page 141 for more information.

# Style Element Track Controls > Noise/Guitar

The Noise/Guitar page is where you can set the RX Noise level and the 'human feel' of Guitar tracks.

STYLE Trk:Dru		6E Trac rush K	: <mark>k Ctrl</mark> s it RX1		-Drum & :	E: ¥1 SFX 120	.000.04
	0			e e e			P
-1.)h	405	<b>\$</b> 7		<b>V</b>	<u> </u>	<u> </u>	
			RX N	loise			
	٠	١	١		() ()	٠	0
	0	0	0 Humani	0 ze GTR	0	0	0
	1	10		1	1 (j)	1	1
DRUM	PERC	BASS	ACC1	ACC2	ACC3	ACC4	ACC5
Sound Expr.	Kbd Range	Noise Guitar					

### **RX Noise**

Use these controls to adjust the volume of RX Noises in the corresponding tracks. This control applies to all types of tracks (provided the Sound includes RX Noises).

### Humanize GTR

Use these controls to apply a random value to the position, velocity and length of notes of Guitar tracks (see "Track Type" on page 160). This control has no effect on other types of track.

### Pad Track Controls > Sound/Expression

In this page you can assign a Sound to the Pad track, adjust its Volume (CC#07) and Expression (CC#11) values, and set various other parameters, like the Keyboard Range, Track Type, Trigger Mode, Tension and Wrap Around.



### Sound/Bank

Sound assigned to the Pad track.

### Volume

Use this slider to set the Volume (CC#07) value for the Pad track. This value is not saved with the Pad, and is only used to test the Pad's volume during editing or recording.

### Pad Type

Use this parameter to decide if the Pad will play once or if it will loop.

**Note:** While in Pad Record mode, the pattern is always played back in loop, even if this parameter is set to "One Shot".

- One Shot When you press one of the PAD buttons, the corresponding Pad is only played once. This is useful for playing Hits or Sequences that must only play once.
- Loop When you press one of the PAD buttons, the corresponding Pad plays up to the end, then continues playing from the start. Press STOP in the PAD section to stop it playing. This is useful for playing cyclic sequences.

### **Keyboard Range**

The Keyboard Range automatically transposes any pattern note that would otherwise play too high or too low in pitch, compared to the original acoustic instrument, when transposed by the arranger. This will result in a more natural sound for the Pad instrument.

**Note:** The Keyboard Range is ignored while recording. The Pad track can play on the full range of the keyboard.

### **Trigger Mode**

(*Not available if Track Type* = *Drum*). This setting lets you define how Bass and Acc-type tracks are retriggered when the chord is changed.

Off Each time you play a new chord, current notes will be stopped. The track will remain silent until a new note will be encountered in the pattern.

- Rt (Retrigger) The sound will be stopped, and new notes matching the recognized chord will be played back.
- Rp (Repitch) New notes matching the recognized chord will be played back, by repitching notes already playing. There will be no break in the sound. This is very useful on Guitar and Bass tracks.

### **Track Type**

Use this parameter to set the type of the Pad track.

Drum	Drum track. This type of track is not transposed by the arranger, and is used for Drum Kits, or for tracks that you don't want to be transposed when playing a different chord.
Bass	Bass track. This type of track always plays the root when changing chord.
Acc	Accompaniment track. This type of track can be used freely, for melodic or harmonic accompani- ment patterns.

### Expression

Use this knob to set the Expression (CC#11) value for the Pad track. This value can be seen at the beginning of the Event Edit list.

The Expression is useful to balance the Pad with the other Pads. For example, if you want the Pad you are recording to be mellower than the average, just lower the Expression value.

#### Tension

Tension adds notes (a 9th, 11th and/or 13th) that have actually been played, even if they haven't been written in the Pad pattern. This parameter specifies whether or not the Tension included in the recognized chord will be added to an Acc-type track.

On	The Tension will be added.
Off	No Tension will be added.

Off No Tension will be added.

### **RX Noise**

Use these controls to adjust the volume of RX Noises in the corresponding tracks. This control applies to all types of tracks (provided the Sound includes RX Noises).

### Humanize GTR

Use these controls to apply a random value to the position, velocity and length of notes of Guitar tracks (see "Track Type" on page 159). This control has no effect on other types of track.

#### Wrap Around

The wrap-around point is the highest register limit for the Pad track. The Pad pattern will be transposed according to the detected chord. If the chord is too high, the Pad track might play in a register that is too high, and therefore unnatural. If, how-ever, it reaches the wrap-around point, it will be automatically transposed an octave lower.

The wrap-around point can be individually set in semitone steps up to a maximum of 12 semitones, relative to the chord root set in the main page of the Pad Record mode (see "Key/Chord" on page 139). 1...12 Maximum transposition (in semitones) of the track, referred to the original key of the Pad pattern.

### Style Element/Pad Chord Table > Chord Table

This is the page where you can assign a Chord Variation to each of the most important recognized chord. When a chord is recognized, the assigned Chord Variation will be automatically selected by the arranger to play the accompaniment.

STYLE REC: SE Chord Table C E: ¥1 💽					
Chord	Table —				
Major:	- CV1	m:	▼ CV1	dim:	▼ CV1
6:	▼ CV1	m6:	▼ CV1	dim7:	▼ CV1
M7:	▼ CV1	m7:	▼ CV1	dim ^(M7) :	▼ CV1
<b>Б</b> 5:	▼ CV1	m7(⊮5);	▼ CV1	#5:	▼ CV1
M7(1+5);	▼ CV1	m ^(M7) ;	▼ CV1	7(#5) _:	▼ CV1
sus:	▼ CV1	7:	▼ CV1	M7(#5);	▼ CV1
sus2:	▼ CV1	7(F2) [;]	▼ CV1	(1+5) _;	▼ CV1
M7sus:	▼ CV1	7sus:	▼ CV1	(1+8) _:	▼ CV1
Chord Table					

When in this page, press the corresponding button on the control panel to select a Style Element (VARIATION1 ... ENDING3).

### **Chord / Chord Variation**

Use these parameters to assign a Chord Variation to each of the most important chords.

### Style Track Controls > Type/Trigger/Tension

In this page you can set the Mode, Trigger mode for the Style tracks, and activate/deactivate the Tension for the Accompaniment tracks.



When in this page, press the corresponding button on the control panel to select a Style Element (VARIATION1 ... ENDING3).

### Track Type

Use this parameter to set the type of the corresponding track.

- Drum Drum track. This type of track is not transposed by the arranger, and is used for Drum Kits made of Drum sounds. It can be affected by the Drum Mapping of the Style Play mode (see "Drum Mapping (Var.1...Var.4)" on page 130).
- Perc Percussion track. This type of track cannot be transposed, and is used for Drum Kit made of Percussion sounds. It is NOT affected by the Drum Mapping.
- Bass Bass track. This type of track always plays the root when changing chord.
- Acc Accompaniment track. This type of track can be used freely, for melodic or harmonic accompaniment patterns.
- Gtr Guitar track. This type of track uses Guitar Mode to create guitar strumming (see "Main page > Guitar Mode" on page 142). When this type is selected, the "Tension" parameter can no longer be edited.

### **Trigger Mode**

This setting lets you define how Bass and Acc-type tracks are retriggered when the chord is changed.

- Off Each time you play a new chord, current notes will be stopped. The track will remain silent until a new note will be encountered in the pattern.
- Rt (Retrigger) The sound will be stopped, and new notes matching the recognized chord will be played back.
- Rp (Repitch) New notes matching the recognized chord will be played back, by repitching notes already playing. There will be no break in the sound. This is very useful on Guitar and Bass tracks.

#### Tension

Tension adds notes (a 9th, 11th and/or 13th) that have actually been played to the accompaniment, even if they haven't been written in the Style pattern. This parameter specifies whether or not the Tension included in the recognized chord will be added to the Acc-type tracks.

- On The Tension will be added.
- Off No Tension will be added.

### Import > Import Groove

The Import Groove function allows the loading of MIDI Grooves (".GRV" files). By importing these data to a track, and assigning the Sound based on the sliced samples to the same track, you can play the original audio groove, and freely change its Tempo.



**Note:** After importing a groove, the imported groove and samples will not be transposed together with the other Style tracks. Audio data cannot be transposed by the arranger.

**Note:** Please execute the Import Groove operation before setting the instrument to standby. All ".GRV" files generated by a Time Slice operation are deleted when the instrument enters standby.

### From

Use this parameter to select one of the MIDI Groove patterns (".GRV" files) generated when saving data after a Time Slice operation.

### To E/CV (Style Element/Chord Variation)

Use this parameter to select the target Style Element (*Style only*) and Chord Variation.

### To Track

(*Style only*) Use this parameter to select the target track inside the selected Chord Variation. **The Percussion track is usually suggested**, since the Drum track is still suitable for standard Drum Kit sounds (count-in, break etc.). After importing the MIDI Groove pattern, assign the Sound, to which the sliced samples are assigned, to the track playing the MIDI Groove pattern.

### Import > Import SMF

The Import SMF function allows you to import MIDI data from a Standard MIDI File (SMF) created on your preferred external sequencer, and transform them in a Chord Variation.

**Note:** You cannot use this function to import data from any generic Song. The Standard MIDI File to be imported must be programmed as if it was one of Pa3XLe's Chord Variations.

STYLE REC: Import	с 💽
From Song: <no song=""></no>	Select
Initialize	
	To E/CV: 💌 V1-CV1
E	xecute
Groove SMF	

When importing an SMF, parameters like CV Length, Meter, Tempo Changes, Program Changes and Expression are recognized. These parameters will be imported as the header of the Style Element containing the Chord Variation, provided the "Initialize" parameter is checked, or the Style Element is empty.

**Hint:** It is a good idea to check the "Initialize" parameter when importing the first Chord Variation of a Style Element, and uncheck it when importing the following Chord Variations.

• Sounds assigned to each track can be imported, provided the Program Change, Bank Select MSB and LSB events are on the first 'tick' of the SMF. These data are loaded in the Style Element's header, and not as Sounds assigned to the Style Performance.

**Note:** Sounds in the Style Element header can be overridden by Sounds assigned to the Style Settings, by checking the "Original Style Sound" parameter in the main page of the Style Play mode (Style Track view).

• If the above data was not found on the first tick of the imported SMF, Sounds must be manually assigned to each track. You can do this in the "Record 1" or "Record 2", or the "Sound/Expression" page of the Style Record mode,.

• Key/Chord, Chord Table, Expression, and any other Style Variation parameter, must be manually programmed in the relevant Style Record pages.

• The starting Tempo, and each track's Volume, must be programmed as Style Settings data, and then saved in the Style Settings.

• Meter (time signature) Change is not allowed, therefore not recognized.

• The Chord Variation length is the same as the imported SMF. You can change length by changing the value of the CV Length parameter, on the main page of the Style/Pad Record mode. **Hint:** If a note extends beyond the last measure of the Chord Variation, an additional measure is appended (for example, if a note extends after the end of the fourth measure in a 4-measure pattern, a 5-measure Chord Variation will be generated). If so, change the CV Length value to reset the Chord Variation length. The exceeding note will be cut, to fit the new pattern length.

When programming a Chord Variation on an external sequencer, please assign each Style track to the correct MIDI channel, according to the following table.

Style Track	MIDI Channel
Bass	09
Drum/Pad	10
Percussion	11
Accompaniment 1	12
Accompaniment 2	13
Accompaniment 3	14
Accompaniment 4	15
Accompaniment 5	16

When programming a Chord Variation on the external sequencer, please assign the Pad track to the MIDI channel #10.

*Note: Only SMF in format 0 can be loaded.* 

### **From Song**

This is the name of the Standard MIDI File to be loaded. Touch the Select button to open the file selector, and select an ".SMF" file.

### Select

Touch this button to open the file selector and load the SMF.

#### Initialize

Check this parameter if you want all settings of the target Style Element (i.e., Key/Chord, Chord Table, Sounds...) are reset when loading the SMF.

**Hint:** It is a good idea to check the "Initialize" parameter when importing the first Chord Variation of a Style Element, and uncheck it when importing the following Chord Variations.

#### To E/CV

Use this parameter to select a target Chord Variation.

### Execute

After setting all parameters in this page, touch this button to import the Standard MIDI File into the target Chord Variation.

# Importing an SMF separated by Markers into a Style

As an alternative to importing single Chord Variations, you can import a whole Style as an *SMF separated by Markers*, i.e., a single SMF containing all the Chord Variations (Variation 1, Variation 2, etc.) each one separated by a Marker (the same events used in Song Play mode).

- 1. While in this page, touch the Select button, and choose the Standard Midi File to be imported.
- **2.** Keep the SHIFT button pressed.
- **3.** Without releasing the SHIFT button, touch the Execute button in the display.
- **4.** Release the SHIFT button.

When creating a new Style, we suggest to check the "Initialize" checkbox. Do not check it if the SMF you are loading was previously exported from a Style to be edited; in this case, it is very important to keep all the previous settings.

Style Tracks and MIDI Channels must be lined as in the previous table, as per Korg's standard Style format definition.

**Note:** Tracks/MIDI Channels other than the above mentioned are ignored during the import procedure.

For a list of MIDI events supported during the import operations, please see "List of recorded events" on page 137. If any, the following events are stripped off and automatically transferred to the Style Element header during the import procedure:

- Time signature (this event is mandatory)
- Control Change bundle #00-32 (Bank Select MSB/LSB)
- Program Change
- Control Change #11 (Expression)

Control Change 00, Control Change 32 and Program Change messages must be placed at the very beginning of each Chord Variation (tick 0).

Whenever they are not saved in the SMF, Program Change, Control Change 00, 11 and 32, can be still programmed in Style Record mode, by using the edit features available.

**Warning:** Pa3XLe can only handle SMF format 0 (Zero). If you are in trouble importing your file, maybe your sequencer (or DAW) is exporting using SMF format 1. Please refer to the software's user's manual.

The naming structure for the Markers inside the SMF is "EnCVn", whose single components are shown in the following table:

Component	Meaning
E	Style Element ('v' = variation, 'i' = intro, 'f' = fill, 'e' = ending)
n	Style Element number ('1' $\sim$ '4' for variations, '1' $\sim$ '2' for all other style elements)
CV	Chord Variation ('cv' = chord variation – no other choices allowed)
n	Chord Variation number [1~6 for Variations, 1~2 for all others]

*Warning:* It is mandatory not to use capital letters in Marker names. Some examples of *valid* names:

'i1cv2' = Intro1 – Chord Variation 2

*'v4cv3' = Variation 4 – Chord Variation 3* 

Examples of **non accepted** names:

'V1cv2', 'v1CV2', 'intro i1cv2', 'v1cv1 chorus'

The order of the Chord Variations inside the SMF is not relevant. They can be freely placed inside the SMF.

At the end of this page you can find a screenshot of a test file created in Steinberg Cubase, just as an example of how a *SMF separated by Markers* can look like. Considering analogies between actual workstations, it will not look much different in other applications like Digital Performer, Logic Pro, Pro Tools or Sonar.

Marker	🗖 🗖 🖬 🖬 🗖	i RI W 🖬 🕕	1	9	17	25	33	41 4	9 5		73	81	89 97	′ [′] 105	5 113	121		129
	Locate	Cycle - 9+ 9P+	i1cv1	i1cv2		f1cv1 f1cv2 v1cv1	v1cv2	f2cv1 f2cv2 v2cv1	v2cv2	f3cv1  f3cv2  v3cv1		f4cv1 f4cv2 v4cv1	v4cv2	brcv1 brcv e1c	2 sv1			2 e3cv1 e3c
3 i2cv1 4 i3cv1		Slap Bass	,1 Januari	2	3 4	<b>567</b>	8	9101	12	1345	1	117189	20	2123	24	25	1	2728
5 f1cv1 6 f1cv2 7 v1cv1		R W 6 E =								si i r <i>ad Arad.</i> Slap Bas			AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA		مم المريم lap Ba: Slap I			
8 v1cv2 9 f2cv1 10 f2cv2	= 2 m s	Drums • •			******	ð comotoone		i na	w oznatozna	-24.00000000000	-							
11 v2cv1 12 v2cv2 13 f3cv1	= 3 m s	e E E Percussion	Drums	Drums	Drum	Drums	Drums	Drums	Drums	Drums	Drums	Drums	Drums	D	rums Drum	is Dru	m Drur	
14 f3cv2 15 v3cv1 16 v3cv2 17 f4cv1		R W () E ==								Percuss	i Percussi	Percussi	Percussion	 P(	ercuss Perci	ussik Perc	p. Perc	,
18 f4cv2 19 v4cv1 20 v4cv2	= 4 <b>m</b> s	(Acc1) El. Pia	18 ¹ 1 - <mark>304 5440</mark>				n în în âr în în în ân	11 ²¹ 1 84 111 84			9fin philippin phil		alle gestellte obgesten obs	<mark>riger ander</mark> State ander			19. 41 <b>%</b>	12 C
21 brcv1 22 brcv2	5 m s	G 🗉 🚥 (Acc2) Clean	El. Piano	El. Piano						El. Piano					. Piano El. Pia	an share		
23 e1cv1 24 e1cv2 25 e2cv1		•• Ru 0 = =	Cloop Ctr			- ]				r Clean G	-	-	Close Ch		lean G Clear			
26 e2cv2 27 e3cv1 28 e3cv2	= 6 <b>m</b> s	(Acc3) Trum					Clean Gu						12 1 % 1 4					
	7 m s	@ 🖃 🔤 (Acc4) Brass	Trumpet	Trumpet	Trum			Trumpe	t Trumpet	Trumpet	Trumpet	Trumpet	Trumpet	Т	rumpet Trum	pet Trur	n Trun	n 1 T
			e ^{ili} • <b>t</b> € Brass	up 4 4 4 4	Bras			Brass	♥ : ' : Brass	Brass		Brass	יוי אוי Brass		t د بې د rass Bras		بب s: Bras	
	2° m s	(Acc5)ton(		Drass				ve . e .				Drass			ass bras			
		₽ ₩ 6 ⊑ ₽		Baritone				Bariton		111			Baritone Sax		aritone Barito			

### **Export SMF**

The Export SMF function allows you to export a Chord Variation as a Standard MIDI File (SMF), and edit it on your preferred external sequencer.

STYLE REC: Export	C 🚺	-
Export SMF		
To Song: V1-CV1		
	From E/CV: 💌 V1-CV1	
	Execute	
SMF		

### To Song

This (non editable) parameter shows the name of the Standard MIDI File to be generated. The (automatically assigned) name will be the same of the exported Chord Variation.

### From E/CV

Use this pop-up menu to select one of the available Chord Variations from the current Style.

### Execute

After selecting a Chord Variation, touch this button to export it as a Standard MIDI File. A standard file selector will appear. Select the target device and directory, then touch Save. After you touch Save, a dialog box appears, letting you assign a name to the file.

## Exporting a Style as an SMF separated by Markers

As an alternative to exporting single Chord Variations to individual Standard MIDI Files, you can export a whole Style as an *SMF separated by Markers*, i.e., a single SMF containing all the Chord Variations (Variation 1, Variation 2, etc.) each one separated by a Marker (the same events used in Song Play mode).

- **1.** While in this page, keep the SHIFT button pressed.
- **2.** Without releasing the SHIFT button, touch the Execute button in the display.
- **3.** Release the SHIFT button.
- **4.** Assign a name to the Standard Midi File where to save the Style in edit.

This operation creates, in the selected device, an SMF format 0 (Zero), containing all the MIDI data included in the selected Style, with each Chord Variation starting from a different Marker (named as per the naming convention explained in the Import section above).

Each Chord Variation will include, at the very beginning (tick 0), the following informations:

- Time signature
- Control Change bundle #00-32 (Bank Select MSB/LSB)
- Program Change
- Control Change #11 (Expression)

### Page menu

Touch the page menu icon to open the page menu. Touch a command to select it. Touch anywhere in the display to close the menu without selecting a command.

Write Style	Copy Chord Table
Undo	Delete Current Track
Copy Key/Chord	Overdub Step Recording
Copy Sounds	Solo Track
Copy Expression	Exit from Record
Copy Keyboard Range	

Style Record

	<b></b>
1	Write Pad
	Undo
	Delete Pad Track
	Overdub Step Recording
	Exit from Record

Pad Record

### Write Style/Pad

Select this command to open the Write Style or Write Pad dialog box, and save the Style/Pad to the internal memory.

See "Write Style/Pad dialog box" on page 166 for more information.

### Undo

*Only available in Record mode.* While in Record mode, cancels the latest recorded data and restores the previous situation. Selected a second time, it restores recorded data again ("Redo" function).

### **Delete Pad Track**

*Only available in the Main page of the Pad Record mode.* Select this command to delete the Pad track.

### Copy Key/Ch (Copy Key/Chord) button

Select this command to open the Copy Key/Chord dialog box, and copy Key/Chord settings of the currently selected track to all other tracks of the same Chord Variation, or to the whole Style.

See "Copy Key/Chord dialog box" on page 166 for more information.

### **Copy Sounds**

(Only available in some edit pages). While the Style Element Track Control edit section is selected, use this command to open the Copy Sound dialog box and copy all Sounds assigned to the current Style Element tracks to a different Style Element.

See "Copy Sounds dialog box" on page 166 for more information.

### **Copy Expression**

(Only available in some edit pages). While the Style Element Track Control edit section is selected, use this command to open the Copy Expression dialog box and copy all Expression values assigned to the current Style Element tracks to a different Style Element.

See "Copy Expression dialog box" on page 167 for more information.

### **Copy Keyboard Range**

(Only available in some edit pages). While the Style Element Track Control edit section is selected, use this command to open the Copy Keyboard Range dialog box and copy all Keyboard Range values for the current Style Element tracks to a different Style Element.

See "Copy Key Range dialog box" on page 167 for more information.

### **Copy Chord Table**

*Only available while in the Style Element Chord Table page.* Select this command to open the Copy Chord Table dialog box (see "Copy Chord Table dialog box" on page 167).

### **Delete Current Track**

(*Only available in the Main Record pages*). Select this command to delete the selected track.

### **Overdub Step Recording**

(Only available in the Main Record pages). Select this command to open the Overdub Step recording window (see "Overdub Step Recording window" on page 168).

### Solo Track

Select the track to be soloed, then check this item. You will hear only the selected track, and the 'Solo' warning will flash on the page header.

Uncheck this item to exit the Solo function.

**SHIFT** Keep the SHIFT button pressed and touch one of the tracks to solo it. Do the same on a soloed track to deactivate the Solo function.

### **Exit from Record**

Select this command to exit from Record without saving changes to the Style.

### Write Style/Pad dialog box

Open this window by choosing the Write Style or Write Pad item from the page menu. Here you can save the recorded or edited Style/Pad to memory.



### Name

Name of the Style/Pad to be saved. Touch the **T** (Text Edit) button next to the name to open the Text Edit window.

### Style/Pad Bank

Target bank of Styles/Pad. Use the Select button on the display, or the VALUE DIAL to select a different bank.

### Style

Target Style/Pad location in the selected bank. Use the Select button on the display, or the VALUE DIAL to select a different location.

**Note:** A User or Favorite Style, or a User Pad, is usually prompted when writing a Style/Pad. However, you can overwrite a Factory Style/Pad when the "Factory Style and Pad Protect" parameter is left unchecked (see page 260).

### Select... button

Touch this button to open the Style/Pad Select window, and select a target location.

STYLE S	SELECT: Fav/User				
Favorite 1 Favorite					Favorite 9 Favorite
Favorite Favorite					Favorite 11 Favorite 12
4 Favorite		-			User 1
Favorite Favorite 7		-			User 2 User 3
Favorite 8	P1 P2	P3	P4	P5	

While in the Style/Pad Select window, use the buttons on top of the window to select either the User or the Favorite banks.

### Copy Key/Chord dialog box

(*Style only*) Open this window by choosing the Copy Key/Chord item from the page menu. Here you can copy Key/Chord settings of the currently selected track to all other tracks of the same Chord Variation, or to the whole Style. This function is useful to speed-up pattern programming, and to avoid having different tracks in different keys within the same Chord Variation.

Copy Key/Chord
From Current Track
To
<ul> <li>Current Chord Variation Tracks</li> </ul>
All Style Tracks
Cancel OK

Current Chord Variation Tracks

The Key/Chord of the current track will be copied to all tracks of the current Chord Variation.

All Style Tracks

The Key/Chord of the current track will be copied to all tracks of the Style (i.e., all Chord Variations).

### **Copy Sounds dialog box**

(*Style only*) Open this window by choosing the Copy Sounds item from the page menu. Here you can copy all Sounds assigned to the current Style Element tracks to a different Style Element.



### **From Style Element**

Non editable. Currently selected Style Element.

### **To Style Element**

Target Style Element.

All Settings will be copied to all Style Element of the Style in edit.

#### Var1...CountIn

Single Style Element where to copy settings to.

### **Copy Expression dialog box**

(*Style only*) Open this window by choosing the Copy Expression item from the page menu. Here you can copy all Expression values assigned to the current Style Element tracks to a different Style Element.

Copy Expression	
From Style Element Var 1	
τ.	
То	
Style Element: 💌 All	
Cancel OK	

### **From Style Element**

Non editable. Currently selected Style Element.

### **To Style Element**

Target Style Element.

All Settings will be copied to all Style Element of the Style in edit.

Var1...CountIn

Single Style Element where to copy settings to.

### **Copy Key Range dialog box**

*(Style only)* Open this window by choosing the Copy Keyboard Range item from the page menu. Here you can copy all Keyboard Range values for the current Style Element tracks to a different Style Element.

Copy Key Range
From Style Element Var 1
То
Style Element: 💌 All
Cancel OK

### **From Style Element**

Non editable. Currently selected Style Element.

### **To Style Element**

Target Style Element.

All Settings will be copied to all Style Element of the Style in edit.

### Var1...CountIn

Single Style Element where to copy settings to.

### **Copy Chord Table dialog box**

(*Style only*) Open this window by choosing the Copy Chord Table item from the page menu. Here you can copy the Chord Table of the current Style Element to a different Style Element.

Copy Chord Table
From Style Element Var 1
То
Style Element: 💌 All
Cancel OK

### **To Style Element**

Target Style Element.

- All Settings will be copied to all Style Element of the Style in edit.
- Var1...CountIn

Single Style Element where to copy settings to.

### **Overdub Step Recording window**

The Step Record allows you to create a new Style/Pad by entering single notes or chords to each track, by playing them on the keyboard one at a time, with no need to play on time. This is very useful when transcribing an existing score, or needing a higher grade of detail, and is particularly suitable to create drum and percussion tracks.

To access this page, select the "Overdub Step Recording" command from the page menu.

STYLE RECORD:Overdub Step						
Track: Drum	SE: Var1 - CV1	Pos: 001.01.000				
Step Time:	Meter: <u>4/4</u>	Free Memory:93 %				
• •	Duration: 85 %					
	Position Note	e∕RXnoise Vel. Dur.%				
01 5.						
0103						
₹ ()						
1 () J	<u> </u>					
Rest Tie Back Next M. Done						

### Track (Selected track)

Name of the selected track in record.

DRUM...ACC5

Style track.

### **SE (Selected Style Element)**

See "Element (Style Element)" on page 138.

#### **CV** (Selected Chord Variation)

See "Chord Var (Chord Variation)" on page 138.

#### Pos (Position)

This is the position of the event (note, rest or chord) to be inserted.

### **Event list**

Previously inserted events. You may delete this event, and set it in edit again, by touching the Back button.

#### **Step Time values**

Length of the event to be inserted.

Note	value.
------	--------

Standard (-) Standard value of the selected note.

Dot (.) Augments the selected note by one half of its value.

Triplet (3) Triplet value of the selected note.

#### Meter

Meter (time signature) of the current measure. This parameter cannot be edited. You can set the Meter in the main page of the Style Record mode, before actually starting recording (see step 6 on page 146 for more information).

#### **Free Memory**

Remaining memory for recording.

#### Duration

Relative duration of the inserted note. The percentage is always referred to the step value.

25%	Staccatissimo.
50%	Staccato.
85%	Ordinary articulation.
100%	Legato.

### Velocity

Set this parameter before entering a note or chord. This will be the playing strength (i.e., velocity value) of the event to be inserted.

- Kbd Keyboard. You can select this parameter, by turning all counter-clockwise the dial. When this option is selected, the playing strength of the played note is recognized and recorded.
- 1...127 Velocity value. The event will be inserted with this velocity value, and the actual playing strength of the note played on the keyboard will be ignored.

#### Rest

Touch this button to insert a rest.

### Tie

Touch this button to tie the note to be inserted to the previous note.

#### Back

Goes to the previous step, erasing the inserted event.

### Next M. (Next Measure)

Goes to the next measure, and fills the remaining space with rests.

### Done

Exits the Step Record mode. If you have inserted some notes, a dialog box appears, asking you to either cancel, discard or save the changes.

Exit Fr	om Step R	ecord			
Step sequence has been changed. Do you want to save it?					
Cancel	No	Yes			

If you touch Cancel, exit is canceled, and you can continue editing. If you choose No, changes are not saved, and the Step Record window is closed. If you choose Yes, changes are saved, and the Step Record window is closed.

## Song Play

The Song Play operating mode is where you can listen to Songs, while reading Lyrics and Chords (where available). An automatically-generated Score can also be seen for Standard MIDI Files, and Markers can let you quickly jump to a Song section. You can mix two Songs by using the X-FADER.

Songs can be in Standard MIDI File, Karaoke[™] or MP3 format. The MP3+G format is also supported.

You can play along with the Song with up to four Keyboard tracks (Upper 1-3, Lower) and four Pads. You can select different Sounds and Effects for Keyboard tracks by selecting Performances and STSs.

While in Song Play mode, you can use the SongBook to automatically select Songs for a desired music genre. With each Song entry in the SongBook, up to four STSs are also selected.

Song Play mode can also be used in Easy Mode.

### **Transport controls**

You can use a separate set of transport controls for each of the two onboard players. Use the PLAYER 1 controls for Player 1, and PLAYER 2 controls for Player 2.

If you want both players to play together, keep the SHIFT button

pressed and press one of the  $\blacktriangleright/\blacksquare$  (PLAY/STOP) controls to make both players start in sync.

If one of the players is already playing, you can start the other player by pressing the other  $\blacktriangleright/\blacksquare$  (PLAY/STOP) control; the second player will start at the next measure.

The two players' Tempo value is linked together. The Tempo data written into the Songs are ignored. Adjust the Tempo using the TEMPO buttons.

### **MIDI Clock**

In Song Play mode the MIDI Clock is always generated by the internal Player 1, even if the Clock parameter is set to MIDI or USB mode in the Global > MIDI > General Controls page (see "Clock Source" on page 265). While in this mode, Pa3XLe cannot receive MIDI Clock messages from the MIDI IN.

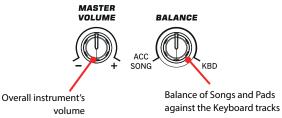
Pa3XLe only transmits to the MIDI OUT and USB port the MIDI Clock messages generated by Player 1. For MIDI Clock messages to be sent, the "Clock Send" parameter must be activated in the Global > MIDI > General Controls page (see "Clock Send" on page 264).

### **Tempo Lock**

If you don't want the Tempo value to change when selecting a new Song, turn on the Tempo Lock function by using the TEMPO LOCK buttons on the control panel. When this button's LED is turned on, you can still manually change the Tempo with the TEMPO +/- buttons, or by touching the Tempo field and using the VALUE DIAL.

### Master Volume, Balance, X-Fader

While the MASTER VOLUME knob controls the general volume of the instrument, you can use the BALANCE knob to balance the Song and Pad tracks against the Keyboard tracks.



Use the X-FADER to mix between Player 1 and Player 2. Move it to the center for the maximum volume of both players.



**Note:** When this slider is fully moved to the right or the left, different Lyrics, Chords, Score and Markers can be shown, and a different Song can be selected.

### **Track parameters**

Changes to Keyboard tracks can be saved to a Performance. You can then recall different settings by just selecting a single Performance.

Settings for Song tracks, like Pan, Volume and FX Sends, depend on each individual Standard MIDI File. Changes to Song tracks made in Song Play mode cannot be saved to a Standard MIDI File, and are only intended for realtime control.

To make permanent changes Song tracks, edit and save the Standard MIDI File in Sequencer mode.

### **Standard MIDI Files and Sounds**

The native Song file format of Pa3XLe is the Standard MIDI File (SMF), an universal standard set by all manufacturers. Filename extension is .MID, but Pa3XLe can also read files with the .KAR extension. You can read these files with any musical instrument or computer.

Even if the Standard MIDI File format is standard, differences may appear in sounds when playing the various files. If you recorded a Song on the Pa3XLe in Sequencer mode using only General MIDI sounds (i.e., those of the "GM" type), you can be confident you can play the same Song on virtually any other musical instrument or computer. If you used Korg native sounds, you may not find the same sounds on instruments from other manufacturers.

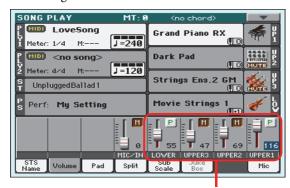
When you read Standard MIDI Files in Song Play mode, there is no problem reading files made using only General MIDI sounds. Sounds could be different when playing a Song made on a different instrument: despite the wide compatibility of Pa3XLe with other standards (like GS or XG), differences may arise.

Should this happen, load the Standard MIDI File in Sequencer mode, then manually reassign the non-matching Sounds, replacing them with similar Sounds on the Pa3XLe. Finally, save the Standard MIDI File again, and you will be able to play it in Song Play mode with the correct Sounds.

### **Keyboard, Pad and Player tracks**

Pa3XLe is equipped with a double player. Each Song can play up to a maximum of 16 Song tracks, for a total of 32 tracks. In addition, you can play the keyboard with four additional Keyboard tracks (Upper 1-3 and Lower).

When the Volume panel is shown in the main page of the Song Play mode (see illustration below), you can adjust the Volume and Play/Mute status of these tracks, but please keep in mind that these changes will not be saved in the Standard MIDI File.



Keyboard tracks

While in Song Play mode, you can select Performances or STSs. STSs are from the latest selected Style; choose a different Style to select a different set of STSs. You can see the name of the available STSs when the STS Name panel is shown in the main page of the Song Play mode (see illustration):

SONG PLAY MT: 0	I <no chord=""></no>
P MID <no song=""> I Meter: 4/4 M: J=120</no>	Grand Piano RX 👘 🖁
P [110] <no song=""> 2 Meter: 4/4 M: J=120</no>	Dark Pad
S UnpluggedBallad1	Strings Ens.2 GM
S Perf: My Setting	Movie Strings 1 🎻 🧕
STS 1 Nylon Guitar STS 2 T Distortion Gtr	STS 3 irumpet & Muted STS 4 Electric Piano
S1S Name Volume Pad Split	Sub Juke Mic

STS names

Selecting a different Style or SongBook Entry may also change the Pads.

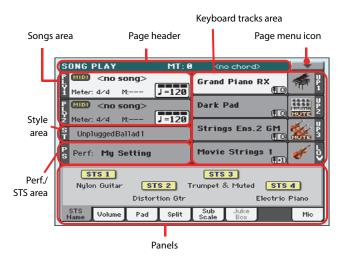
When entering Song Play mode from the Style Play mode, Keyboard and Pad tracks remain the same they were in Style Play mode.

### Main page (Normal view)

Press the SONG PLAY button to access this page from another operating mode.

**Note:** When switching from Style Play to Song Play mode, various track parameters and settings may change.

To return to this page from one of the Song Play edit pages, press the EXIT or SONG PLAY button.



Details on individual tracks can be seen by touching the Volume tab. To switch between Keyboard tracks (Normal view) and Song tracks (Song Tracks views), use the TRACK SELECT button. Pressed a first time, you will see tracks 1-8; a second press will show tracks 9-16; pressed again will go back to Keyboard tracks.

### Page header

This line shows the current operating mode, transposition and recognized chord.



### **Operating mode name**

Name of the current operating mode.

### **Master Transpose**

Master Transpose value in semitones. This value can be changed using the TRANSPOSE buttons on the control panel.

**Note:** You can also transpose MP3 files. Keep in mind, however, that transposition always remains inside the -5...+6 semitones range. This is enough to cover all keys, while avoiding excessive audio degradation. Any further transposing will be reversed to fit the range. So, you might see a +7 transpose value (Just Fifth Up) shown in the display, but the MP3 will actually play 5 semitones lower (Just Fourth Down).

**Note:** Transpose may automatically change when selecting a different Performance. It may also change when loading a Standard MIDI File generated with an instrument of the Korg Pa-Series.

To avoid transposing, "lock" the Master Transpose parameter in the Global (see "General Controls > Lock" on page 255).

### **Recognized chord**

This displays the recognized chord when you play a chord on the keyboard. If no chord abbreviation is shown, it means that no chord recognition mode has been selected by using the CHORD SCAN buttons (see "CHORD SCAN section" on page 17).

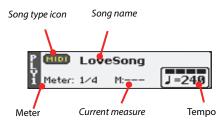
### Page menu icon

Touch the page menu icon to open the menu. See "Page menu" on page 180 for more information.

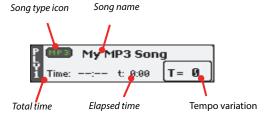
### Songs area

This is where the Song names are shown, together with parameters depending on the selected type of Song.

This is how a Song's area appears when a *Standard MIDI File* or *Karaoke* file has been selected:



And this is how it appears when an *MP3 File* has been selected:



### Ply 1/2

A different Song may be assigned to each of the two onboard players (Ply 1 and Ply 2). Each player has its own parameters.

### Song type icon

Songs of different types can be assigned to the players. This icon shows the file type.

Standard MIDI File, often abbreviated as SMF (file extension: *.MID or *.KAR). The SMF (*.MID) is the industry standard song format, used by Pa3XLe as its basic Song format when recording a new Song. A MIDI Karaoke File (*.KAR) is an extension of the SMF format.



MIDI

MPEG Layer-3 format, or MP3 (file extension: *.MP3). This is a compressed audio file, that may be generated on any personal computer, or by the Pa3XLe itself.



A Jukebox file (file extension: *.JBX) can be assigned to Player 1, but its name will not be shown in this area. The JBX icon will appear

instead, together with the name of the currently selected Song, in the Jukebox list.

**Note:** To create or edit a Jukebox file, go to the Jukebox Edit page (see page 179).

### Song name

Displays the name of the Song assigned to the corresponding Player.

• If the Player is already selected (white background), touch the Song name to open the Song Select window.

• If the player is not selected (dark background), first select it, then touch the Song name to open the Song Select window.

When the Song Select window appears, you can select a single Song or a Jukebox file (see "Song Select window" on page 107).

If you select another Song while a Song is playing, the previous Song will stop, and the new Song will be selected and be ready to play.

To select a Song, you can also press the SELECT button (on the control panel) corresponding to the desired Player. Press it a second time to select a Song by dialing in its ID number (see "Selecting a Song by its ID number" on page 108).



#### Meter

This parameter only appears when a Standard MIDI File or Karaoke file has been selected.

Current Song's meter (time signature).

#### **Measure number**

This parameter only appears when a Standard MIDI File or Karaoke file has been selected.

Current measure number.

### Tempo

*This parameter only appears when a Standard MIDI File or Karaoke file has been selected.* 

Metronome Tempo. Select this parameter and use the TEMPO+ and TEMPO- buttons to change the Tempo. As an alternative, touch this parameter and drag with your finger.

#### **Total time**

This parameter only appears when an MP3 file has been selected.

Total length (in minutes:seconds) of the selected MP3 file.

#### **Elapsed time**

This parameter only appears when an MP3 file has been selected.

Elapsed time (in minutes:seconds) of the MP3 file currently in play.

#### **Tempo variation**

This parameter only appears when an MP3 file has been selected.

Variation of the original MP3 file's tempo, inside a range of  $\pm 30\%$  of the original tempo. When Tempo is changed, MP3 files

are smoothly accelerated or slowed down (inside a range of  $\pm 30\%$  of the original tempo). This may seem trivial, but it is really rocket-science instead, and it is made possible by Korg sophisticated time-stretching algorithms.

### Style area

Currently selected Style. You can select a Style while playing Songs, to have it ready when switching to Style Play mode. Also, this lets you change the Pads and STSs (both are recalled by selecting a Style).

Touch the Style name to open the Style Select window. As an alternative, use the buttons in the STYLE section of the control panel.



### **Performance/STS area**

This is where the Performance or STS name is shown.



Selected Performance or STS

#### Selected Performance or STS

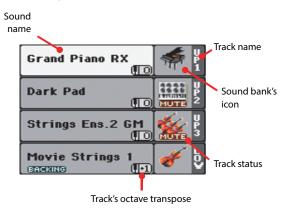
This is the latest selected Performance or Single Touch Setting.

Touch the name to open the Performance Select window. As an alternative, use the PERFORMANCE section to select a different Performance.

To select a different STS from the latest selected Style, use the four STS buttons under the display.

### **Keyboard tracks area**

This is where Keyboard tracks are shown.



#### Sound name

Name of the Sound assigned to the corresponding Keyboard track.

• If the track is already selected (white background), touch the Sound name to open the Sound Select window.

• If the track is not selected (dark background), first select it, then touch the Sound name to open the Sound Select window.

You can also open the Sound Select window by using the SOUND SELECT button on the control panel.

For more information about the Sound Select window, see "Sound Select window" on page 105.

### Keyboard track octave transpose

*Non editable.* Octave transpose of the corresponding track. To individually edit the octave transpose for each track, go to the "Mixer/Tuning > Tuning" edit page of the Song Play mode (see "Mixer/Tuning > Tuning" on page 120 for more details).

You can also transpose all Upper tracks by using the UPPER OCTAVE buttons on the control panel.

#### **Keyboard track name**

*Non editable.* Name of the corresponding track:

Abbreviation	Track	Hand
UP1	Upper 1	Right hand
UP2	Upper 2	
UP3	Upper 3	
LOW	Lower	Left hand

#### Sound bank's icon

This icon shows the bank the current Sound belongs to.

#### **Keyboard track status**

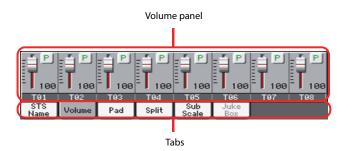
Play/mute status of the current track. Touch this icon to change the status.

No icon Play status. The track can be heard.

MUTE Mute status. The track cannot be heard.

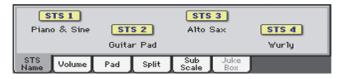
### Panels

The lower half of the main page contains the various panels, you can select by touching the corresponding tabs. See more information in the relevant sections, starting from page 173.



### **STS Name panel**

Select this panel to see the name of the four available STSs. See "STS Name panel" on page 113 for details.

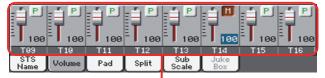


### Volume panel

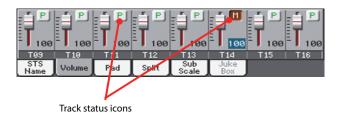
Touch the Volume tab to select this panel. This is where you can set the volume of each track, and mute/unmute tracks.

# Changing the tracks' volume and play/mute status

You can change the volume and play/mute status of each track in the same way seen for the Style (see "Volume panel" on page 113 for details).







## Saving the tracks' volume and play/mute status

Each set of tracks can be saved into a different structure. This allows for a great flexibility when mixing Keyboard and Song tracks through the use of Performances, STSs and Standard MIDI Files.

• The status of *Keyboard tracks* can be saved to a Performance or STS (see "Write Performance" on page 131 and "Write Single Touch Setting" on page 131).

• The status of the *Song tracks* can saved as a general setting in the Global > Mode Preferences > Song & Sequencer page (see "Save Trk & FX" on page 259).

This allows for leaving the track status unchanged even when playing a different Standard MIDI File. You can leave, for example, the bass track in mute, and let your bassist play it live for the whole show.

However, an exception to the above is when reading a Standard MIDI File created with a Pa-Series instrument. These files do include special commands to force the Play/Mute status of each track.

### **Track names**

Under the sliders, a label for each track is shown. Use the TRACK SELECT button to switch between the *Keyboard Traks* and the *Song Tracks 1-8* and *Song Tracks 9-16* views.

Abbreviation	Track
UPPER13	Upper tracks. Volume and play/mute status memo- rized into a Performance or STS.
LOWER	Lower track. Volume and play/mute status memorized into a Performance or STS.
T01T16	Song tracks. Volume memorized into a Standard MIDI File. Play/mute status memorized as a general setting.

### Pad panel

Select this panel to see which Hit or Sequence Pads are assigned to the four Pads. See "Pad panel" on page 115 for details.

						9
Pad 1 Grv Brush	Pa Perc Sh	<b>d 2</b> ak+Tamł	Pa Gtr Stee	d 3 Il Mute 1	Pad Synth Se	<b>4</b> 9 11
STS Name Volume	Pad	Split	Sub Scale	Juke Box		Mic

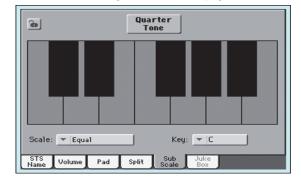
### Split panel

Select this panel to adjust the split point for the Keyboard tracks. See "Split panel" on page 116 for details.

	Split P	oint	C	4	🔳 Global			
STS Name	STS Name Volume Pad Split Sub Juke Mic							

### Sub-Scale panel

Select this panel to select a secondary scale for the Keyboard tracks. See "Mixer/Tuning > Sub Scale" on page 121 for details.



### **Jukebox panel**

When a Jukebox (JBX) file is assigned to Player 1, you can use the list shown in this panel to browse the Jukebox list, and touch the Select button in the display to select a Song to play. This way, you can select any Song in the list as your starting Song, and manually change the order of the Songs to play.

### Note: A Jukebox file can be assigned to Player 1 only.

*Note:* This panel is only available after loading a Jukebox file.

*Hint:* To create or edit a Jukebox file, go to the Jukebox Edit page (see page 179). A quick way to create a Jukebox list is to touch the "Play All" button in the Song Select window (see page 108).

**Warning:** If you delete a Song included in the Jukebox list currently in play, the Player will stop, and the "No Song" message will appear. At this point, you can select the JukeBox tab to open the Jukebox panel, and select a different Song.

*As an alternative, you can select the next Song by pressing SHIFT* + >> (FAST FORWARD) in the PLAYER 1 section of the control

panel, then press  $\blacktriangleright$  (PLAY/STOP) in the PLAYER 1 section again.

Song list	Selected Song	Jukebox file
1 Another MID: 2 Canyon.MID 3 LoveSong.mid 4 My MIDI Song STS Jame Volume		My Jukebox List Select Juke Box

#### Song list

Use this list to browse through the Songs in the Jukebox list. Use the scrollbar to scroll the list.

### Selected Song

Name of the Song currently in play. You can select a different Song from the list, and touch the Select button in the display to select it for playback.

### Select button

Touch this button to select the Song highlighted in the list, and assign it to the player. If a Song is already playing, it will be stopped, and the selected Song will start playing back.

### Jukebox file

Name of the selected Jukebox file. To edit this file, see "Jukebox Editor" on page 179.

### **Transport controls for the Jukebox**

When you select a Jukebox file, Player 1 transport controls behave in a slightly different way than with single Songs.

<< and >> Pressed alone, these buttons are the Rewind and Fast Forward commands.

**SHIFT** Keep the SHIFT button pressed, and press these buttons to scroll to the previous or next Song in the Jukebox list.

(HOME) Returns to measure 1 of the current Song.

#### ►/■ (PLAY/STOP)

Starts or stops the current Song. When you stop the Song, it is stopped at the current position. Press HOME to go back to measure 1 of the current Song.

If the Jukebox panel is open, you can select the Song from which to start. See "Jukebox panel" above.

### **Mic panel**

Touch the Mic tab to select this panel. Parameters are the same seen for the Style Play mode (see "Mic panel" on page 117).

### Edit menu

From any page, press the MENU button to open the Song Play edit menu. This menu gives access to the various Song Play edit sections.

When in the menu, select an edit section, or press EXIT or SONG PLAY to exit the menu.

When in an edit page, press the EXIT or SONG PLAY button to go back to the main page of the Song Play operating mode.

Main Page	
Effects	Track Controls
Pad Assign.S∀itch	JukeBox Editor
	Effects

Each item in this menu corresponds to an edit section. Each edit section groups various edit pages, that may be selected by touching the corresponding tab on the lower part of the display.

**Note:** Some of the edit parameters are only meant for realtime use. As a general rule, Keyboard track parameters can be saved to a Performance or SongBook STS, while Song track's Play/Mute status and FX settings can be saved as a general setting in the Global > Mode Preferences > Song & Sequencer page (see "Save Trk & FX" on page 259).

### Edit page structure

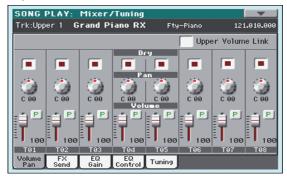
All edit pages share some basic elements, already described for the Style Play mode (see "Edit page structure" on page 117 for details).

### Mixer/Tuning > Volume/Pan

This page lets you set the volume and pan for each of the Keyboard or Song tracks.

**Note:** The play/mute status of a Song track may be modifed when selecting a Song created on a Pa-Series instrument.

Use the TRACK SELECT button to switch from the Keyboard to the Song tracks, and vice versa.



### Parameters

The parameters shown in this page are the same already seen for the Style Play mode. See "Mixer/Tuning > Volume/Pan" on page 118 for details.

### Mixer/Tuning > FX Send

Pa3XLe is equipped with two groups of effect processors (A and B). In Song Play mode, these groups can be used to process Keyboard, Pad and MIDI Song tracks.

- Keyboard tracks always use the effects of the FX B group.
- Pad tracks always use the effects of the FX A group.
- Standard MIDI Files and Karaoke files can only use the effects of the FX A group.
- Standard MIDI Files created on a Pa-Series instrument (in Sequencer mode) can use effects of the FX A and B groups.

Choosing and editing the effects is done in the dedicated Effect section (see "Effects > A/B FX Configuration" on page 177).

In case you do not want to hear the direct signal, just set the Dry parameter to Off (see the "Dry" parameter above).

You can assign to the Master FXs any kind of available effects, but we suggest you assign the effects based on this scheme:

- A-Master 1 Reverb processor for the Song tracks.
- A-Master 2 Modulating FX processor for the Song tracks.
- B-Master 1 Reverb processor for the Keyboard tracks.
- B-Master 2 Modulating FX processor for the Keyboard tracks.

Use the TRACK SELECT button to switch from Keyboard to Song tracks, and vice-versa.



**Note:** When you stop, then start the Song again, or select a different Song, the default Song track settings are selected again. You can, however, stop the Song, change the effects, then start the Song again. Edit the Song in Sequencer mode to permanently change the effects.

**Note:** Track FX setting can be saved as a general setting in the Global > Mode Preferences > Song & Sequencer page (see "Save Trk & FX" on page 259). This will help adapting the Pa3XLe's sound to personal taste for any Standard MIDI File (excluding those saved by a Pa-Series instrument, that may override the general preferences).

### Parameters

The parameters shown in this page are the same already seen for the Style Play mode. See "Mixer/Tuning > FX Send" on page 119 for details.

### Mixer/Tuning > EQ Gain

In this page you can set the three-band equalization (EQ) for each individual track.

Use the TRACK SELECT button to switch from the Keyboard to the Song tracks, and vice-versa.

SONG PLAY: Mixer/Tuning								
Trk:Upp	Trk:Upper 1 Grand Piano RX Fty-Piano 121.010.000							
144	145	144	Hi Gair	n EdB]	141	145	144	
101	- C)	- EC)	EO)	- C)	- EO)	- C)	- C)	
+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	
245	245	245	Hid Gai	in EdB]	245	245	245	
101	1 (O)	- (C)		- C)		1 (O)	- CO) -	
+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	
245	245	245	Low Ga	in EdBJ	245	245	245	
	1 (Q)	- C.)		1 (Q)		(Q)	- CO)	
+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	
Play	Play	Play	Play	Play	Play	Play	Play	
T01	T02	T03	T04	T05	T06	T07	T08	
Volume Pan	FX Send	EQ Gain	EQ Control	Tuning				

**Hint:** Track EQ can be saved as a general setting in the Global > Mode Preferences > Song & Sequencer page (see "Save Trk & FX" on page 259). This will help adapting the Pa3XLe's sound to personal taste for any Standard MIDI File you will ever play (excluding those saved by a Pa-Series instrument, that may override the general preferences). Need a lighter Bass track? Save the right equalization, and the Bass will stay light with all the subsequent Songs.

### Parameters

The parameters shown in this page are the same already seen for the Style Play mode. See "Mixer/Tuning > EQ Gain" on page 119 for details.

### **Mixer/Tuning > EQ Control**

This page lets you reset or bypass track equalization, programmed in the previous page.

Use the TRACK SELECT button to switch from the Keyboard to the Song tracks, and vice-versa.



#### Parameters

The parameters shown in this page are the same already seen for the Style Play mode. See "Mixer/Tuning > EQ Control" on page 120 for details.

### Mixer/Tuning > Tuning

Parameters in this page let you set various tuning settings. All parameters in this page are the same found in the Style Play mode. See "Mixer/Tuning > Tuning" on page 120 for details.



#### Parameters

The parameters shown in this page are the same already seen for the Style Play mode. See "Mixer/Tuning > Tuning" on page 120 for details.

**Note:** Song track values edited in this page are not saved, and are only intended for on-the-fly editing.

### Effects > A/B FX Configuration

This page allows you to select the effects for the A (Song) and B (Keyboard) FX groups. You can use the "FX A" and "FX B" side tabs to switch from one group to the other one. (Songs created in Sequencer mode on a Pa-Series instrument can also use the B FX group).

The effect types and the FX matrix are the same seen for the Style Play mode (see "Effects > A/B FX Configuration" on page 123),

SONG PLAY:	Effects		•	
Send:	MASTER FX1 On 71: Reverb Hall	L ⁄R	FX A FX B	FX grou
Send:	W/D:         28:80         M.T.:         Off           MFX2 to MFX1:         0           MASTER         FX2           On	1		
L	▼ 26: Stereo Chorus W/D: Wet M.T.: Off			
FX "A" Master1 Config. Reverb	Master2 Chorus			

**Note:** The default effect settings can be saved as a general setting in the Global > Mode Preferences > Song & Sequencer page (see "Save Trk & FX" on page 259).

**Note:** When you stop the Song, or select a different Song, the default effects are selected again. You can, however, stop the Song, change the effects, then start the Song again with the new effects. Edit the Song in Sequencer mode to permanently change the effects.

#### Parameters

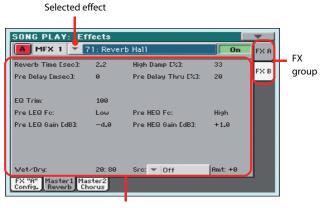
The parameters shown in this page are the same already seen for the Style Play mode. See "Effects > A/B FX Configuration" on page 123 for details.

#### M.T. (Modulating Track)

Source track for modulating MIDI messages. You can modulate an effect parameter with a MIDI message generated by an internal physical controller, or a MIDI message coming from a Song track.

### Effects > Master 1, 2

These pages contain the editing parameters for the effect processors. Here is an example of the FX A page, with the Reverb Hall effect assigned.



FX parameters

#### Parameters

The parameters shown in this page are the same already seen for the Style Play mode. See "Effects > Master 1, 2" on page 123 for details.

### Track Controls > Mode

These parameters let you set the Internal/External, and the Poly/ Mono status of Song tracks.

#### Parameters

The parameters shown in this page are the same already seen for the Style Play mode. See "Track Controls > Mode" on page 124 for details.

**Note:** These parameters can be saved as a general setting in the Global > Mode Preferences > Song & Sequencer page (see "Save Trk & FX" on page 259).

### Track Controls > Drum Edit

These parameters let you adjust the volume and edit the main parameters for each percussive instrument family.

#### **Drum Edit parameters**

The parameters shown in this page are the same already seen for the Style Play mode. See "Track Controls > Drum Edit" on page 125 for details.

**Note:** Song track values edited in this page are not saved, and are only intended for on-the-fly editing.

### **Track Controls > Easy Edit**

These parameters let you "fine-tune" edit parameters for Sounds assigned to the tracks.

#### **Easy Sound Edit parameters**

The parameters shown in this page are the same already seen for the Style Play mode. See "Track Controls > Easy Edit" on page 126 for details.

**Note:** Song track values edited in this page are not saved, and are only intended for on-the-fly editing.

### Keyboard/Ensemble > Key/Velocity Range

These parameters let you select a note and velocity range for the Keyboard tracks.

#### Parameters

The parameters shown in this page are the same already seen for the Style Play mode. See "Keyboard/Ensemble > Key/Velocity Range" on page 127 for details.

### Keyboard/Ensemble > Ensemble

This page lets you program the Ensemble function.

#### Parameters

The parameters shown in this page are the same already seen for the Style Play mode. See "Keyboard/Ensemble > Ensemble" on page 127 for details.

### Keyboard/Ensemble > Keyboard Control

These parameters let you set parameters for the Keyboard tracks.

#### Parameters

The parameters shown in this page are the same already seen for the Style Play mode. See "Keyboard/Ensemble > Keyboard Control" on page 128 for details.

### Pad/Switch > Pad

This page lets you select a different hit sound or sequence for each of the four PAD buttons.

#### Parameters

The parameters shown in this page are the same already seen for the Style Play mode. See "Pad/Switch > Pad" on page 129 for details.

### Pad/Switch > Assignable Switch

This page lets you select a different function for each of the ASSIGNABLE SWITCH buttons.

#### Parameters

The parameters shown in this page are the same already seen for the Style Play mode. See "Pad/Switch > Switch" on page 129 for details.

### **Jukebox Editor**

The Jukebox function lets you play a list of Songs (127 max), at the touch of a button. You can play a Jukebox file by assigning it to Player 1, after having selected it in the Song Select page, just as if it was an ordinary Song (see "Jukebox panel" on page 174).



In this page you can create, edit and save a Jukebox file. A Jukebox list can contain Standard MIDI Files, Karaoke[™] files, and MP3 files.

If a Jukebox file is already selected, you will enter this page with that file ready to be edited. Otherwise, you will enter this page with an empty list.

To create a new Jukebox file, touch Del All to remove all Songs from the current list. Add new Songs, then touch Save and enter a different name before confirming. A new Jukebox file will be saved to the storage device.

#### Move Up/Down

Use these button to move the selected item up or down in the list.

#### Add

Adds a Song at the end of the current list. You can add up to 127 Songs to a list. When this button is pressed, a standard file selector opens up in the display. **Note:** A Jukebox list can include only Songs contained in the same folder.

*Hint:* Instead of a single Song, you can select a Jukebox file, and add its whole content to the current Jukebox list.

#### Insert

Inserts a Song at the current position (i.e., between the selected item and the preceding one). All subsequent Songs are moved to the next higher-numbered slot. You can add up to 127 Songs to a list.

**Note:** A Jukebox list can include only Songs contained in the same folder.

*Hint:* Instead of a single Song, you can select a Jukebox file, and insert its whole content to the current Jukebox list.

#### Delete

This command lets you delete the selected Song from the list.

#### Del All

Select this command to delete the whole Jukebox list.

#### Save

Touch this button to save the Jukebox file. The Save Jukebox File dialog box appears, allowing you to edit the name and save your file.

Write JukeBo	ox File
Name:	
T NEWNAME	
Cancel	OK

Touch the **T** (Text Edit) button to open the Text Edit window, and edit the name.

If you are editing an existing list, and do not change its name, the old file is overwritten. If you change it, a new file will be created in the storage device.

If you are saving a new list, the "NEWNAME.JBX" name is automatically assigned, and you can edit it.

*Note:* You can save your "JBX" file only in the same folder as the Song files included in the list.

### Page menu

Touch the page menu icon to open the menu. Touch a command to select it. Touch anywhere in the display to close the menu without selecting a command.

Write Performance
Save Song Marker Ply. 1
Save Song Marker Ply. 2
Export Jukebox List
Solo Track
Copy FX
Paste FX
Easy Mode

#### Write Performance

Select this command to open the Write Performance dialog box, and save most of the current control panel settings to a Performance.

See "Write Performance dialog box" on page 132 for more information.

#### Save Song Marker Ply.1/2

Select this command to save the markers created in the corresponding Player (see "Markers page" on page 313).

#### **Export Jukebox List**

Only available when a Jukebox list is selected. Select this command to save the current Jukebox list as a text file to a storage device. Here is how it works.

- 1. While a Jukebox file is assigned to the player, select the Export Jukebox List command from the page menu.
- 2. A dialog box will appear, asking you to select either the internal disk or a storage device connected to one of the USB Host ports.

₩rite JukeB	lox List
DISK	
Cancel	<u>0K</u>

**3.** Select an option, and touch OK to confirm.

**Note:** When saved, the text file will be named after the selected Jukebox file. For example, a Jukebox file named "Dummy.jbx" will generate a "Dummy.txt" file. A new, unnamed Jukebox file will generate a "New_name.txt" file. If a file with the same name already exists on the target device, it will be overwritten without waiting for any confirmation.

*The list will include the progressive number assigned to each Song, the file names, the total number of files in the list.* 

For the correct display and printing of the list on a personal computer, use a fixed size (i.e., non-proportional) character in your text editor.

#### Solo Track

Select the track of the current Player to be soloed, and check this item. You will hear only the selected track, and the 'Solo' warning will flash on the page header.

Uncheck this item to exit the Solo function.

The Solo functions works in a slightly different way, depending on the selected track:

• *Keyboard track:* The selected Keyboard track is the only track you can hear when playing on the keyboard. All other Keyboard tracks are muted. Song tracks are left in play status.

• *Song track:* The selected track is the only Song track you can hear. All other Song tracks are muted. Keyboard tracks are left in play status.

**SHIFT** Keep the SHIFT button pressed and touch one of the tracks to solo it. Do the same on a soloed track to deactivate the Solo function.

#### Copy/Paste FX

Use this command to copy a single effect, or both effects of an FX group (A or B). See "Copy/Paste FX" on page 131 for detailed instructions.

#### Easy Mode

Easy Mode allows you to use the Style Play and Song Play modes with an easier-to-use user interface. It is recommended to beginners, and to professionals alike that do not want to deal with the extra parameters of the Advanced mode.

At any time, you can manually turn the Easy Mode on/off with the Easy Mode command in the page menu of the Style Play and Song Play modes.

## Sequencer

The Sequencer operating mode is the full-featured onboard sequencer, where you can create a Song from scratch, or edit it. You can also use this mode to edit the initial parameters of a Standard MIDI File, either made with an external sequencer or with Pa3XLe's own sequencer.

You can save the new or edited Song as a Standard MIDI File (SMF, i.e., a file with the ".MID" extension), and play it back either in Song Play or Sequencer mode – or on any external sequencer.

### **Transport controls**

To play back a Song, use the PLAYER 1 transport controls (i.e., the one on the left side of the PLAYER area). While in Sequencer mode, Player 2 controls are deactivated.

### **Standard MIDI Files and MP3**

#### The Songs and the Standard MIDI File format

The native Song format for Pa3XLe is the Standard MIDI File (".MID" file).

When saving a Song as a SMF, a setup measure is automatically inserted at the beginning of the Song. This measure contains various Song initialization parameters.

#### Sequencer mode and the MP3

While in Sequencer mode, you cannot load nor record MP3 files. This mode only allows for editing of the Standard MIDI Files.

### **Songs and Voice Processor Presets**

You can use the Voice Processor while in Sequencer mode. For this, just two settings are needed:

- Select the Song track where you are recording chords for the Voice Processor (see "Song Control" on page 272).
- Select the desired Voice Processor Preset.

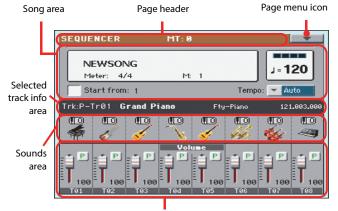
### Sequencer Play - Main page

Press the SEQUENCER button to access this page from another operating mode. In this page you can load a Song, and play it back using the PLAYER 1 transport controls.

**Note:** When switching from Style Play to Sequencer mode, the Sequencer Setup is automatically selected, and various track parameters may change.

To return to this page from any of the Sequencer edit pages, press the EXIT or SEQUENCER button.

To switch between Song tracks 1-8 and 9-16, use the TRACK SELECT button.



Track volume/status area

#### **Page header**

This line shows the current operating mode and transposition.

SEQUENCER	MT: 0
T I	T and the second se
Operating mode	Master Transpose (in semitones)

#### **Operating mode name**

Name of the current operating mode.

#### **Master Transpose**

Master transpose value in semitones. This value can be changed using the TRANSPOSE buttons on the control panel.

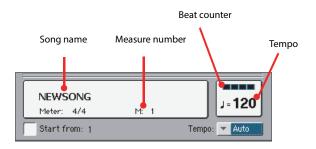
**Note:** Transpose may be automatically changed when loading a Standard MIDI File generated with an instrument of the Korg Pa-Series.

#### Page menu icon

Touch the page menu icon to open the menu. See "Page menu" on page 202 for more information.

#### Song area

This is where the Song name is shown, together with its tempo and meter (time signature) parameters, and the current measure.



#### Song name

Displays the name of the selected Song. "NEWSONG" means that a new (blank) Song is selected, and you can record it.

Touch the Song name to make the Song Select window appear, allowing for selection of a different Song (see "Song Select window" on page 107).

To select a Song, you can also press the SELECT button in the PLAYER 1 section of the control panel. Press SELECT a second time to select a Song by dialing in its ID number (see "Selecting a Song by its ID number" on page 108).

**Note:** Only Standard MIDI Files can be loaded. MP3 files cannot be loaded in Sequencer mode.

#### Meter

Current meter (time signature).

#### **Measure number**

Current measure number.

#### Tempo

Metronome Tempo. Select this parameter and use the TEMPO buttons to change Tempo. As an alternative, when a different parameter is selected, or you are in a different page, keep the SHIFT button pressed and use the DIAL to change Tempo for the sequencer.

#### Start from

When checked, the measure shown by this parameter is a temporary start point of the song, instead of measure 1. When you press the  $| \triangleleft |$  (HOME) button, or use the << (REWIND) button to go back to the beginning, the Song returns to this point.

#### Tempo (Tempo mode)

Use this menu to select the Tempo change mode.

- Manual In this mode, you can change Tempo by using the TEMPO buttons. The Song will be played back using the manually selected tempo.
- Auto Tempo recorded in the Song will be used.

#### Selected track info area

This line lets you see the Sound assigned to the selected track. Not only it is shown on the main page, but also in several edit pages.

Trk:P-Tr01	Grand	Piano	Fty-	-Piano	121.0	03.000
Track name			Sound	bank		
	Sound	d name		Program	Change sec	quence

#### Track name

Name of the selected track.

#### Sound name

Sound assigned to the selected track. Touch anywhere in this area to open the Sound Select window, and select a different Sound.

#### Sound bank

Bank the selected Sound belongs to.

#### **Program Change**

Program Change number sequence (Bank Select MSB, Bank Select LSB, Program Change).

#### Sounds area

This area lets you see the Sound Bank icon and octave transposition for the eight tracks currently displayed.

Song track octave transpose icon



Sound bank's icon

#### Song track octave transpose

*Non editable.* Octave transpose of the corresponding track. To edit the octave transpose, go to the "Mixer/Tuning > Tuning" edit page (see page 120 for programming information).

#### Sound bank's icon

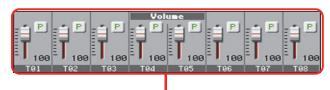
This picture illustrates the bank the current Sound belongs to. Touch an icon a first time to select the corresponding track (detailed information are shown on the Selected Track Info area, see above). Touch it a second time to open the Sound Select window.

#### Track volume/status area

This area is where you can set the volume of each Song track, and mute/unmute tracks.

#### Volume and virtual sliders

Drag the sliders to adjust the volume of the corresponding tracks. You can also change the volume by touching a slider and using the VALUE DIAL.



Virtual sliders

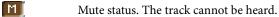
Use the TRACK SELECT button to switch between *Song Tracks 1-8* and *Song Tracks 9-16*,

#### **Track status icon**

Play/mute status of the current track. Select the track, then touch this area to change the track status. The status of Song tracks is saved when saving the Song.

P

Play status. The track can be heard.



#### **Track names**

Under the sliders, a label for each track is shown. Use the TRACK SELECT button to switch between tracks 1-8 and 9-16.

Abbreviation	Track
T01T16	Song tracks. Volume memorized into a Standard MIDI File. Play/mute status memorized into the Standard MIDI File as well, and can be read in Song Play mode.

### **Entering Record mode**

To enter Record mode, press the RECORD button while you are in Sequencer mode. The following dialog box will appear:

Current Song: NEWSONG	
<ul> <li>Multitrack Sequencer</li> </ul>	
O Backing Sequence (Quic	k Record)
Step Backing Sequence	
, Cancel	ОК

Select one of the three available recording options and touch OK (or Cancel if you don't want to enter Record mode).

#### Multitrack Sequencer

Full-featured sequencer. Select this option for classic multitrack recording. (See "Record mode > Multitrack Sequencer page" on page 184).

#### Backing Sequence (Quick Record)

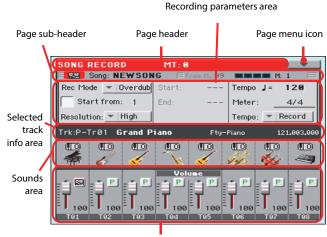
Easy way of recording. Just play with Styles, and record your realtime performance.

#### Step Backing Sequence

Step-record. Edit chords and controls for the Style. Very useful if you are not a keyboard player.

### Record mode > Multitrack Sequencer page

While in Sequencer mode, press the RECORD button and select the "Multitrack Sequencer" option. The Multitrack Sequencer page appears.



Tracks volume/status area

See "Multitrack recording procedure" on page 185 for information on the record procedure.

#### Page header

See "Page header" on page 181.

### Page menu icon

See "Page menu icon" on page 181.

### Page sub-header

This area shows some performing info on the Song.



#### Song name

Name of the Song in record.

#### Free memory %

Percentage of remaining memory available for recording.

#### **Beat counter**

This indicator shows the current beat inside the current measure.

#### **Measure number**

Current measure you are recording.

#### **Recording parameters area**

#### Rec mode (Recording mode)

Set this parameter before starting record, to select a recording mode.

Overdub	The newly recorded events will be mixed to any existing events.
Overwrite	The newly recorded events will replace any exist- ing events.
Auto Punch	Recording will automatically begin at the "Start" position, and stop at the "End" position.
	<b>Note:</b> The Auto Punch function will not work on an empty Song. At least one track must already be recorded.
PedalPunch	Recording will begin when pressing a pedal set to the "Punch In/Out" function, and will finish when pressing the same pedal again.
	<i>Note:</i> The Pedal Punch function will not work on an empty Song. At least one track must already be recorded.

#### Start from

When checked, the measure shown by this parameter is a temporary start point of the song, instead of measure 1. When you

press the  $\blacktriangleright/\blacksquare$  (PLAY/STOP) button to stop recording, or use the << (REWIND) button to go back to the beginning, the Song returns to this point.

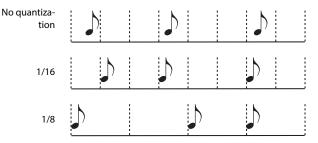
#### Resolution

Use this parameter to set the quantization during recording. Quantization is a way of correcting timing errors; notes played too soon or too late are moved to the nearest axis of a rhythmic "grid", set with this parameter, thus playing perfectly in time.

```
High No quantization applied.
```

#### (1/32)... (1/8)

Grid resolution, in musical values. For example, when you select 1/16, all notes are moved to the nearest 1/16 division. When you select 1/8, all notes are moved to the nearest 1/8 division.



#### Start/End

Start and End locators. These parameters area available only when the "Auto Punch" recording mode is selected. They set the starting and ending points of the Punch recording.

#### Tempo

Use the TEMPO buttons to set the Tempo value.

#### Meter

This is the basic meter (or time signature) of the Song. You can edit this parameter only when the Song is empty, i.e., before you begin recording anything. To insert a meter change in the middle of the Song, use the "Insert Measure" function (see page 200).

#### Tempo (Tempo mode)

This parameter sets the way tempo events are read or recorded.

- Manual Manual reading. The latest manual Tempo setting (made using the TEMPO buttons) is considered the current Tempo value. No Tempo change events will be recorded. This is very useful when you want to record the Song at a much slower speed than the actual Tempo.
- Auto Auto reading. The Sequencer plays back all recorded Tempo events. No Tempo change events are recorded.
- Record All Tempo changes made during recording will be recorded to the Master Track.

**Note:** Tempo is always recorded in overwrite mode (old data is replaced by the new data).

#### Selected track info area

This line lets you see the Sound assigned to the selected track. See "Selected track info area" on page 182 for more information.

#### **Sounds area**

This area lets you see Sound Bank icon and octave transposition for the eight tracks currently displayed. See "Sounds area" on page 182 for more information.

#### Track volume/status area

This area is where you can set the volume of each Song track, and change track status. See "Track volume/status area" on page 183.

#### **Track status icons**

Play/mute/record status of the current track. Select the track, then touch this area to change its status.

- P Play status. The track can be heard.
- Mute status. The track cannot be heard.
- Record status. After pressing ►/■ (PLAY/ STOP) to start recording, the track will receive notes from the keyboard and the MIDI IN or USB Device connector.

#### Multitrack recording procedure

Here is the general procedure to follow for the Multitrack Recording.

- 1. Press the SEQUENCER button to enter Sequence mode.
- Press the RECORD button, and select the "Multitrack Sequencer" option to enter the Multitrack Record mode. Now you can prepare your recording parameters. (For more details, see "Record mode > Multitrack Sequencer page" on page 184).
- **3.** Be sure the Overdub or Overwrite recording options is selected (see "Rec mode (Recording mode)" on page 184).
- 4. Set the Tempo. There are two ways of changing Tempo:
  - Use the TEMPO buttons to change the tempo

• Touch the "Tempo" parameter, and use the VALUE DIAL to change Tempo.

- 5. Use the TRACK SELECT button to switch between Song Tracks 1-8 and Song Tracks 9-16, and assign the desired Sound to each track (see "Sound bank's icon" on page 182).
- 6. Select the track to be recorded. Its status icon will automatically change to Record (see "Track status icons" on page 185).
- **7.** If this is a second-pass recording, use the "Start from" parameter to enter a measure where you want to start recording.
- **8.** Press the METRO button to turn the metronome on, and start practicing.
- 9. Press ►/■ (PLAY/STOP) to start recording. After a 1-bar precount, the recording actually begins.

• If you selected the Auto Punch recording mode, the recording will begin only when reaching the Start point.

• If you selected the Pedal Punch recording mode, press the pedal when you want to begin recording. Press it again to finish recording.

**Note:** The Punch functions will not work on an empty Song. At least one track must already be recorded.

- When finished recording, press ▶/■ (PLAY/STOP) to stop the sequencer. Select a different track, and go on recording the whole Song.
- **11.** When finished recording the new Song, either press the RECORD button, or select the "Exit from Record" command from the page menu (see page 203).

*Warning:* Save the Song to a storage device, to avoid losing it when the instrument enters standby.

**Note:** When exiting the Record mode, the Octave Transpose is automatically reset to "0".

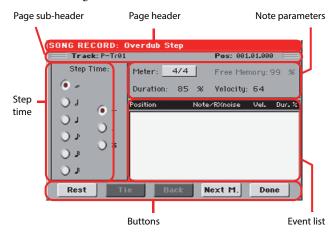
**12.** If you wish, edit the new Song, by pressing the MENU button, and selecting the various edit pages.

### Record mode > Step Record page

The Step Record allows you to create a new Song by entering single notes or chords to each track. This is very useful when transcribing an existing score, or needing a higher grade of detail, and is particularly suitable to create drum and percussion tracks.

To access this page, select the "Overdub Step Recording" or "Overwrite Step Recording" command from the page menu.

In Overdub Step Recording mode you will add to existing events, while in Overwrite Step Recording mode you will overwrite all existing events.



See "Step Record procedure" below, for information on the record procedure.

#### Page header

This line shows the current operating mode.

### Page sub-header

#### Track

Name of the selected track in record.

Tr01...Tr16 Song track.

#### Pos (Position)

This is the position of the event (note, rest or chord) to be inserted.

#### **Step Time area**

#### **Step Time**

Length of the event to be inserted.

æ 🖡	Note value.
Standard (-)	Standard value of the selected note.
Dot (.)	Augments the selected note length by one half of its value.
Triplet (3)	Triplet value of the selected note.

#### Note parameter area

#### Meter

Meter (Time Signature) of the current measure. This parameter cannot be edited. You can set a Meter change by using the Insert function of the Edit menu, and inserting a new series of measures with a different Meter (see "Song Edit > Cut/Insert Measures" on page 200).

#### **Free Memory**

Available memory for recording.

#### Duration

Relative duration of the inserted note. The percentage is always referred to the step value.

50%	Staccato.
85%	Ordinary articulation.
100%	Legato.

#### Velocity

Set this parameter before entering a note or chord. This will be the playing strength (i.e., velocity value) of the event to be inserted.

Kbd Keyboard. You can select this parameter, by turning the VALUE DIAL all counter-clockwise. When this option is selected, the playing strength of the played note is recognized and recorded.

1...127 Velocity value. The event will be inserted with this velocity value, and the actual playing strength of the note played on the keyboard will be ignored.

#### **Event list area**

#### List of inserted events

Previously inserted events. You may delete the last of these events, and make it ready for a new event, by touching the Back button in the display.

Position	Position where the event has been inserted. The
	value is shown in the "measure.beat.tick" format.

Note/RX Noise

Name of the inserted Note or RX Noise. When entering a chord, a series of dots is shown after the name of the root note.

Vel. Velocity of the inserted event.

Dur.% Percentage duration of the inserted event.

#### **Buttons**

#### Rest

Touch this button to insert a rest.

#### Tie

Touch this button to tie the note to be inserted to the previous one. A note with the same pitch, and the specified length, will be created, and tied to the previous one. Goes to the previous step, erasing the inserted event.

#### Next M. (Next Measure)

Goes to the next measure, and fills the remaining space with rests.

#### Done

Exits the Step Record mode.

#### **Step Record procedure**

Here is the general procedure to follow for the Step Recording.

- 1. Press the SEQUENCER button to enter Sequencer mode.
- Press the RECORD button, and select the "Multitrack Sequencer" option to enter the Multitrack Record mode. From the page menu, select the "Overdub Step Recording" or "Overwrite Step Recording" mode. At this point, the Step Record window will appear in the display.
- **3.** The next event will be entered at the position shown by the Pos indicator in the upper right corner of the display.

• If you don't want to insert a note at this position, insert a rest instead, as shown in step 5.

• To jump to the next measure, filling the remaining beats with rests, touch the Next M. button in the display.

- 4. To change the step value, use the Step Time parameters.
- 5. Insert a note, rest or chord at the current position.

• To insert a single note, just play it on the keyboard. The inserted note length will match the step length. You may change the velocity and relative duration of the note, by editing the Velocity and Duration parameters. See "Veloc-ity" and "Duration" on page 186.

• To insert a rest, just touch the Rest button in the display. Its length will match the step value.

• To tie the note to be inserted to the previous one, touch the Tie button in the display. A note will be inserted, tied to the previous one, with exactly the same pitch.

• To insert a chord or a second voice, see "Chords and second voices in Step Record mode" on page 187.

- **6.** After inserting a new event, you may go back by touching the Back button in the display. This will delete the previously inserted event, and set the step in edit again.
- When finished recording, touch the Done button in the display. A dialog box appears, asking you to either cancel, discard or save the changes.



If you touch Cancel, exit is canceled, and you can continue editing. If you choose No, changes are not saved, and the Step Record window is closed. If you choose Yes, changes are saved, and the Step Record window is closed.

- 8. From the main page of the Multitrack Recording mode, either select the "Exit from Record" command from the page menu, or press the RECORD button to exit the Record mode.
- 9. While in the main page of the Sequencer mode, you may press the ▶/■ (PLAY/STOP) button in the PLAYER 1 section to listen to the Song, or select the Save Song command from the page menu to save the Song to a storage device (see "Save Song window" on page 203).

# Chords and second voices in Step Record mode

You are not obliged to insert single notes in a track. There are several ways to insert chords and double voices. Lets look at some.

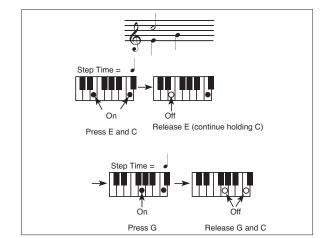
**Entering a chord.** Simply play a chord instead of a single note. The event name will be the first note of the chord you pressed, followed by the "…" abbreviation.

**Entering a chord made of notes with different velocity values.** You can make the upper or lower note of a chord, for example, louder than the remaining ones, to let the most important stand out from the chord. Here is how to insert a three-note chord:

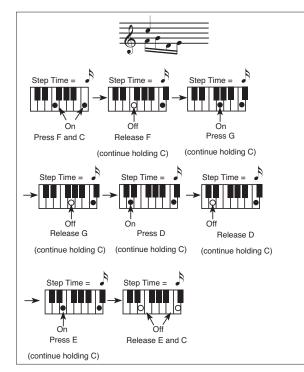
- 1. Edit the first note's Velocity value.
- 2. Press the first note and keep it pressed.
- 3. Edit the second note's Velocity value.
- 4. Press the second note and keep it pressed.
- 5. Edit the third note's Velocity value.
- 6. Press the third note, then release all notes.

**Entering a second voice.** You can insert passages where one note is kept pressed, while another voice moves freely.

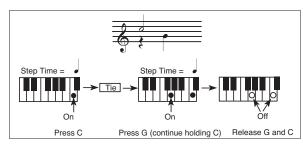
#### Ex. 1:



*Ex.2*:



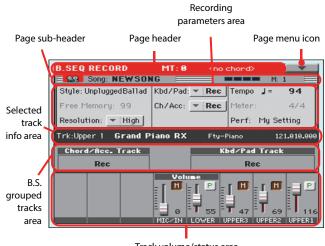
Ex.3:



# Record mode > Backing Sequence (Quick Record) page

Backing Sequence (Quick Record) mode allows you to quickly record your live performance with the backing of the Styles. To make things easier, just two grouped tracks are provided: *Kbd/Pad* (Keyboard and Pads) to record keyboard and pads, and *Ch/Acc* (Chords/Accompaniment) to record chords and the accompaniment provided by the Style.

While in Sequencer mode, press the RECORD button and select the "Backing Sequence (Quick Record)" option. The Backing Sequence (Quick Record) page appears.



Track volume/status area

See "Backing Sequence (Quick Record) recording procedure" on page 190 for information on the record procedure.

#### Page header

See "Page header" on page 181. Here, this line also shows the recognized chord.

#### Page menu icon

See "Page menu icon" on page 181.

#### Page sub-header

See "Page sub-header" on page 184.

#### **Recording parameters area**

#### Style

This parameter shows the selected Style. Either touch it, or press the STYLE button in the SELECTION section of the control panel to open the Style Select window and select a different Style (see "Style Select window" on page 104).

#### **Free memory**

Percentage of remaining memory for recording.

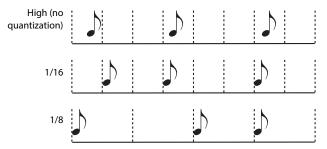
#### Resolution

Use this parameter to set the quantization during recording. Quantization is a way of correcting timing errors; notes played too soon or too late are moved to the nearest axis of a rhythmic "grid", set with this parameter, thus playing perfectly in time.

High No quantization applied.

#### (1/32)... (1/8)

Grid resolution, in musical values. For example, when you select 1/8, all notes are moved to the nearest 1/8 division. When you select 1/4, all notes are moved to the nearest 1/4 division.



#### Chord/Acc Track, Kbd/Pad Track

These parameters let you define grouped track status during recording. This status is reflected by the big status indicator above the track sliders.

- Play The Backing Sequence track is set to play. If there are recorded data, they will be heard while recording the other Backing Sequence track.
- Mute The Backing Sequence track is muted. If this tracks has already been recorded, it will not be heard during recording of the other Backing Sequence track.
- Rec The Backing Sequence track is in record. All previously recorded data will be deleted. After press-

ing  $\blacktriangleright/\blacksquare$  (PLAY/STOP) to start recording, the track will receive notes from the keyboard, the MIDI IN or the USB Device connector.

**Chord/Acc:** This Backing Sequence track groups all Style tracks, together with recognized chords and Style controls and Style Elements selection. After finishing recording, they will be saved as Song tracks 9-16, as in the following table:.

Chord/Acc track	Song track/Channel
Bass	9
Drum	10
Percussion	11
Accompaniment 1	12
Accompaniment 2	13
Accompaniment 3	14
Accompaniment 4	15
Accompaniment 5	16

**Kbd/Pad:** This Backing Sequence track includes the four Keyboard tracks and the four Pads. After finishing recording, they will be saved as Song tracks 1-8, as in the following table:

Kbd/Pad track	Song track/Channel
Upper 1	1
Upper 2	2
Upper 3	3
Lower	4
Pad 1	5
Pad 2	6
Pad 3	7
Pad 4	8

#### Tempo

Metronome Tempo. Select this parameter and use the VALUE DIAL to change Tempo. You can always change Tempo using the TEMPO buttons.

#### Meter

(*Non Editable*). This parameter shows the meter (or time signature) of the selected Style for reference.

#### PERF or STS (Performance or STS)

This parameter shows the selected Performance or STS (depending on the latest item selected).

To select a Performance, either touch it, or press one of the PER-FORMANCE buttons to open the Performance Select window and select a different Performance (see "Performance Select window" on page 106).

To select an STS (Single Touch Setting), use the four STS buttons under the display.

#### **Backing Sequence tracks area**

#### **Backing Sequence tracks status indicators**

These giant indicators show the status of the Backing Sequence tracks. They reflect the status of the Kbd/Pad and Ch/Acc parameters (see "Chord/Acc Track, Kbd/Pad Track" above).

#### Selected track info area

This line lets you see the Sound assigned to the selected track. See "Selected track info area" on page 182 for more information.

#### Track volume/status area

This area is where you can set the volume of each single Keyboard track, and mute/unmute tracks.

#### Sliders (track volume)

Graphical display of each track's volume.

#### Individual track status icons

While you can use the Kbd/Pad Backing Sequence track to change the status of all Keyboard tracks at once, you can also change the status of each separate track. Touch this icon to change the status of the corresponding individual track.

	-	Γ.
		 L

Play status. The track can be heard.

M

Mute status. The track cannot be heard.

#### **Track names**

Under the sliders, a label for each track is shown.

Abbreviation	Track	
MIC/IN	Microphone audio input	
UPPER13	Upper tracks.	
LOWER	Lower track.	

### **Backing Sequence (Quick Record) recording** procedure

Here is the general procedure to follow for the Backing Sequence (Quick) Recording.

- **1.** Press the SEQUENCER button to enter the Song mode.
- Press the RECORD button, and select the "Backing Sequence (Quick Record)" option to enter the Backing Sequence (Quick Record) mode. Now you can prepare your recording parameters. (For more details, see "Record mode > Backing Sequence (Quick Record) page" on page 188).
- **3.** The latest selected Style is currently selected. If it is not the right one, select a different Style to start recording with. (See "Style Select window" on page 104).
- 4. The latest selected Performance or STS is currently selected. If you prefer, select a different Performance or STS. (See "Performance Select window" on page 106, and "STS Select" on page 106).

5. Select the status of the Backing Sequence tracks, by using the Kbd/Pad and Ch/Acc parameters. (Kbd/Pad means Keyboard and Pads; Ch/Acc means Chord and Accompaniment, i.e. the Style tracks). To record all you play on the keyboard, plus the automatic accompaniment, leave their status to Rec (see "Track status icons" on page 185).

**Warning:** Tracks set to REC are automatically overwritten when starting recording. Set a track to the PLAY or MUTE status, when you don't want to delete it. For example, if you are recording a keyboard part on an existing Style track, set the Ch/Acc parameter to PLAY, and the Kbd/Pad track to REC.

6. Start recording by pressing the left ►/■ (PLAY/STOP) button (or the START/STOP button, if you want the Style to start immediately).

• By pressing the left  $\blacktriangleright/\blacksquare$  (PLAY/STOP) button (or the START/STOP button), you can record a keyboard intro with no Style playing. After a count-in, start recording.

Play a solo intro, then start the auto-accompaniment by pressing the START/STOP button.

• By pressing the START/STOP button you can start the Style right at the beginning of the Song.

Since you can use any Style control, you could start with the usual combinations (INTRO, ENDING...).

**Note:** While in Backing Sequence mode, you can't record the SYNCHRO, TAP TEMPO/RESET, MANUAL BASS, BAL-ANCE controls.

- **7.** Play your music. While recording you can even change the Style, or stop it by pressing START/STOP or one of the ENDINGs. While recording you can even start the style again, by pressing START/STOP.
- 8. When finished recording your performance, press the 
   ▶/■ (PLAY/STOP) button in the PLAYER 1 section. You will go back to the Sequencer Play Main page (see "Sequencer Play Main page" on page 181).

At this point, you may press the  $\blacktriangleright/\blacksquare$  (PLAY/STOP) button in the PLAYER 1 section to listen to the new Song.

You may also edit the Song by pressing the MENU button (see "Edit menu" on page 193).

9. Save the song to a storage device (see "Save Song window" on page 203).

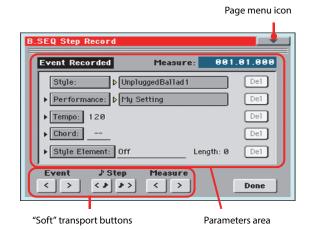
**Warning:** The recorded Song will be deleted when the instrument enters standby, switching to the Style Play or Song Play mode, or entering Record again. If you wish to preserve it, save the Song to a storage device.

### Record mode > Step Backing Sequence page

The Step Backing Sequence mode allows you to enter single chords, to create or edit the Style (Chord/Acc) part of a Song. This mode lets you enter chords even if you are not a keyboard player, or fix any error made playing chords or selecting Style controls, during a Backing Sequence (Quick Record) recording.

In this mode, you can only edit Songs created using the Backing Sequence (Quick Record) recording mode. When saving a Song created using the Backing Sequence (Quick Record) recording mode, all Chord/Acc data is preserved, and can be loaded later, to be edited again by using the Step Backing Sequence mode.

While in Sequencer mode, press the RECORD button and select the "Step Backing Sequence" option. The Step Backing Sequence window appears.



See "Step Backing Sequence procedure" on page 193 for information on the record procedure.

#### Page menu icon

Touch the page menu icon to open the menu. See "Step Backing Sequence page menu" on page 192 for more information.

#### **Parameters area**

#### Side arrow ()

The small arrow next to a parameter means that its value is effective at the current position. For example, if you are at the "003.01.000" position, and an arrow lights up next to the Chord parameter, this means that a chord change happens at the "003.01.000" position.

#### Measure

This parameter shows the current position of the Step Editor. To go to a different position within the Song, use one of the following systems:

- Select this parameter, then use the VALUE DIAL to go to a different measure.
- Use the Measure buttons in the display to move to a different measure. Use the Step buttons in the display to move in

steps of 1/8 (192 ticks). Use the Event buttons in the display to jump to the previous or next event.

The locator value is shown in the "measure.beat.tick" format.

Measure	Measure or bar number.
Beat	Divider in the Time Signature ratio (e.g., a quar- ter in a 3/4 time).
Tick	Smallest position value. Both Pa3XLe internal players feature a resolution of 384 ticks per quarter.

#### Style

This is the latest selected Style. To insert a Style change at the current position, touch the Style name to open the Style Select window, or follow the standard selecting procedure using the STYLE SELECT buttons.

**Note:** Any Style Change inserted after the beginning of the measure (i.e., to a position other than Mxxx.01.000) will be effective at the following measure. For example, if a Style Change event has been inserted at M004.03.000, the selected Style will be effectively selected at M005.01.000. (This works exactly as in Style Play mode).

**Note:** When inserting a Style Change, you may also insert a Tempo Change at the same position. A Style Change will not automatically insert the Style's Tempo.

#### Performance

This is the latest selected Performance. Select a Performance to recall the Style it links to. To insert a Performance change at the current position, touch the Performance name to open the Performance Select window, or follow the standard selecting procedure using the PERFORMANCE section.

**Note:** The STYLE CHANGE LED is automatically turned on when entering the Chord/Acc Step Mode. This means that selecting a Performance automatically selects the Style memorized in the Performance.

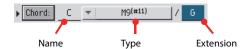
The STS MODE and STS buttons are automatically disabled, meaning that you can't change Keyboard tracks while in Chord/ Acc Step Mode.

#### Tempo

This is the Tempo Change parameter. To insert a Tempo Change event at the current position, select this parameter and use the VALUE DIAL to change its value.

#### Chord

The chord parameter is divided in four separate parts:



Select one of the parts, then use the VALUE DIAL to modify it. As an alternative, you can play a chord, and it will be automatically recognized. While recognizing a chord, the status of the Bass Inversion parameter will be considered.

The lack of a chord (--) means that the accompaniment will not play at the current position (apart for the Drum and Percussion tracks). To select the "--" option, select the Name part of the

Chord parameter, then use VALUE DIAL to select the very last value (C...B, Off).

Note: If you replace a chord with a different one, please remember that the Keyboard track (if recorded) will not be automatically changed, and may cause a dissonance against the accompaniment.

#### **Style Element**

This is the Style Element (i.e., a Variation, Fill, Intro, or Ending). The length of the selected Style Element is always shown by the "Length" parameter (see below).

"Off" means that the accompaniment will not play at the selected position - only Keyboard and Pad tracks will play.

Hint: Insert a Style Element Off event exactly where the automatic accompaniment must stop (at the end of the Song).

#### Length

This parameter will let you know where to place the following Style Element Change. For example, if you inserted an Intro event lasting for 4 measures, you can insert 4 empty measure after this event, and a Variation event at the end of the Intro, beginning at the 4th empty measure.

#### **Del (Delete) button**

When a side arrow () is shown next to a parameter, there is an event at the current position. You can touch the Del button next to it, to delete the event at the current position.

Hint: To delete all events starting from the current position, select the "Delete All from Selected" command from the page menu (see below).

#### "Soft" transport buttons

#### **Previous or Next Event** राज

Use these buttons to move to the previous or next recorded event.

#### **Previous or Next Step** $\langle \mathbf{v} | \mathbf{v} \rangle$

Use these buttons to go to the previous or next step (1/8, or 192 ticks). If an event is located before the previous or next step, the locator stops on that event. For example, if you are positioned on M001.01.000, and no event exists before M001.01.192, the > button moves to the M001.01.192 location. If an event exists on M001.01.010, the > button stops to the M001.01.010 location.

#### Previous or Next Measure

Use these buttons to move to the previous or following measure.

#### **Done button**

#### Done

Touch this button to exit the Step Backing Sequence mode. All changes will be saved to memory.

Hint: Save the Song to a storage device, by selecting the "Save Song" command from the page menu, to avoid losing it when the instrument enters standby.

#### Step Backing Sequence page menu

Touch the page menu icon to open the menu. Touch a command to select it. Touch anywhere in the display to close the menu without selecting a command.

Insert Measure
Cut Measure
Delete All from Selected
Delete All Styles/Perfs from Slected
Delete All Style Elements from Selected
Delete All Chords from Selected
Delete All Tempos from Selected

#### **Insert Measure**

Use this command to insert an empty measure starting from the current measure. All Chord/Acc events contained in the current measure will be moved to the following measure. The event at the Mxxx.01.000 position (i.e., exactly at the beginning of the measure, like a Time Signature or Style change) will not be moved.

#### Cut Measure

Use this command to delete the current measure. All Chord/Acc event contained in the following measures will be moved one measure back.

#### **Delete All from Selected**

Use this command to delete events of all types, starting from the current position.

Note: All events on the very first tick (M001.01.000), like Perf, Style, Tempo, Chord, Style Element selection, cannot be deleted.

#### **Delete All Styles/Perfs from Selected Delete All Styles Elements from Selected Delete All Chords from Selected Delete All Tempos from Selected**

Select one of these commands to delete all events of the corresponding type, starting from the current position to the end of the Song. To delete all events of the same type from the whole Song, go back to the M001.01.000 position, and select one of these commands.

Note: All events on the very first tick (M001.01.000), like Perf, Style, Tempo, Chord, Style Element selection, cannot be deleted.

#### **Step Backing Sequence procedure**

Here is the general Step Backing Sequence recording procedure.

**Hint:** Before entering Step Backing Sequence mode to edit an existing Song, select the "Save Song" command from the page menu, and save the Song to a storage device. This way, you will have a copy of the Song, in case you don't like the results of your editing.

- 1. While in Sequencer mode, press the RECORD button, and choose the "Step Backing Sequence" recording option.
- 2. Select the Measure parameter, and go to the desired position in the Song, by using the VALUE DIAL. Alternatively, you can move the locator using the "soft" transport buttons in the display. See ""Soft" transport buttons" on page 192.
- Select the parameter type (Style, Performance, Tempo...) to insert, edit or delete at the current position. If an arrow () appears next to a parameter, the shown event has been inserted at the current position.
- **4.** Use the VALUE DIAL to modify the selected event. Delete it by touching the Del button next to the event. When editing a parameter without the arrow (▶) next to it, a new event is inserted at the current position.
- **5.** Exit the Step Backing Sequence recording mode, by touching the Done button in the display.
- Press ▶/■ (PLAY/STOP) in the PLAYER 1 section to listen to the result of your editing. If it is fine, save the Song to a storage device.

### Edit menu

From any page, press the MENU button to open the Sequencer edit menu. This menu gives access to the various Sequencer edit sections.

When in the menu, select an edit section, or press EXIT to exit the menu.

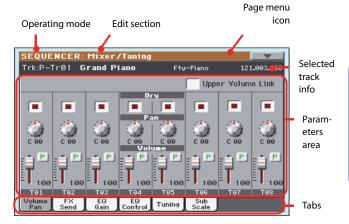
When in an edit page, press EXIT or the SEQUENCER button to go back to the main page of the Sequencer operating mode.

SEQUENCER Menu		
	Main Page	
Mixer Tuning	Effects	Track Controls
		_
Event Edit	Song Edit	

Each item in this menu corresponds to an edit section. Each edit section groups various edit pages, that may be selected by touching the corresponding tab on the lower part of the display.

### Edit page structure

All edit pages share some basic elements.



#### Operating mode

This indicates that the instrument is in Sequencer mode.

#### Edit section

This identifies the current edit section, corresponding to one of the items of the edit menu (see "Edit menu" on page 193).

#### Page menu icon

Touch this icon to open the page menu (see "Page menu" on page 202).

#### **Parameters** area

Each page contains various parameters. Use the tabs to select one of the pages. For detailed information on the various types of parameters, see sections starting below.

#### Tabs

Use tabs to select one of the edit pages of the current edit section.

### Mixer/Tuning > Volume/Pan

This page lets you set the volume and pan for each Song track. Use the TRACK SELECT button to switch between Song tracks 1-8 and 9-16.



#### Parameters

All parameters in this page are the same found in the same page of the Song Play mode (see "Mixer/Tuning > Volume/Pan" on page 176).

### Mixer/Tuning > FX Send

This page lets you set the level of the track's direct (uneffected) signal going to the Internal FX processors.

Use the TRACK SELECT button to switch between Song tracks 1-8 and 9-16, and vice-versa.

SEQUE	NCER:	Mixer	/Tuning				
Trk:P-1	P-Tr01 Grand Piano			Fty	-Piano	121	.003.000
			FX 6	roup			
- A	- A	- A	- A	- A	- A	- A	- A
			Mast	ec 1			
10	100					1	
40	49	dB	40	49	49	49	49
40	40	40	Hast	er 2	40	40	40
1 (O)	101	- C) -	1 CO 1	1 E (2)	101	- CO) -	10) I
0	0	0	9	0	0	0	0
Play	Play	Play	Play	Play	Play	Play	Play
T01	T02	T03	T04	T05	T06	T07	T08
Volume Pan	FX Send	EQ Gain	EQ Control	Tuning	Sub Scale		

#### **FX Groups**

Use this pop-up menu to select one of the two FX groups (A or B).

Pa3XLe includes two groups of effects (FX A and FX B). While in Song Play mode, the A group is reserved to the Song and Pad tracks, the B group to the Keyboard tracks.

However, Songs created in Sequencer mode could also assign the B group to the Song tracks.

#### Parameters

All parameters in this page are the same found in the same page of the Style Play mode (see "Mixer/Tuning > FX Send" on page 176).

### Mixer/Tuning > EQ Gain

In this page you can set the three-band equalization (EQ) for each individual track.

Use the TRACK SELECT button to switch between Song tracks 1-8 and 9-16, and vice-versa.



#### Parameters

All parameters in this page are the same found in the same page of the Song Play mode (see "Mixer/Tuning > EQ Gain" on page 176).

### **Mixer/Tuning > EQ Control**

This page lets you reset or bypass track equalization, programmed in the previous page.

Use the TRACK SELECT button to switch between Song tracks 1-8 and 9-16, and vice-versa.



#### Parameters

All parameters in this page are the same found in the same page of the Song Play mode (see "Mixer/Tuning > EQ Control" on page 177).

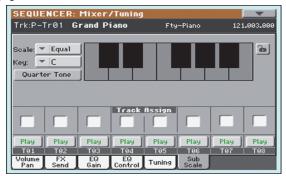
### **Mixer/Tuning > Tuning**

#### Parameters

All parameters in this page are the same found in Global mode. See "Mixer/Tuning > Tuning" on page 120).

### Mixer/Tuning > Sub Scale

This page lets you program an alternative scale for the selected tracks (via the "Track Assign" parameter). The remaining tracks (if any) use the basic scale set in Global mode (see "Main Scale" on page 263).



**Note:** Quarter Tone selection and activation of the Sub-Scale on each track of a Song, can be received by MIDI (i.e., by an external sequencer or controller). Conversely, selection of Quarter Tone settings, or activation of the Sub-Scale on each track of the Song, can be sent by the Pa3XLe to an external MIDI recorder as System Exclusive data.

#### Parameters

All parameters in this page are the same found in Global mode. See "Mixer/Tuning > Sub Scale" on page 121.

#### Track Assign

Check the parameter corresponding to each track where the Sub-Scale must be used.

#### Play/Mute icon

Track's play/mute status.

Play

Play status. The track can be heard.

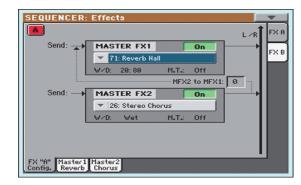


Mute status. The track cannot be heard.

### Effects > A/B FX Configuration

This page allows you to select the effects for the A (Song) and B (Keyboard) FX groups. You can use the "FX A" and "FX B" side tabs to switch from one group to the other one. Songs created in Sequencer mode on a Pa-Series instrument can also use the B FX group.

The effect types and the FX matrix are the same seen for the Style Play mode (see "Effects > A/B FX Configuration" on page 123).



**Note:** When you stop the Song, or select a different Song, the default effects are selected again. You can, however, stop the Song, change the effects, then start the Song again. Save the Song to permanently change the effects.

#### **FX Group**

Use these side tabs to choose the FX group (A or B) for the corresponding track.

Pa3XLe includes two groups of effects (FX A and FX B). While in Song Play mode, the A group is reserved to the Song and Pad tracks, the B group to the Realtime (Keyboard) tracks.

However, Songs created in Sequencer mode could also assign the B group to the Song tracks.

#### Parameters

All parameters in this page are the same found in the same page of the Song Play mode (see "Effects > A/B FX Configuration" on page 177).

### Effects > Master 1, 2

These pages contain the editing parameters for the effect processors. Here is an example of the FX A page, with the Reverb Hall effect assigned.

A MFX 1 💌	1:Rever	b Hall	On
Reverb Time Esec]:	2.2	High Damp [%]:	33
Pre Delay Emsec]:	0	Pre Delay Thru [%]:	20
Q Trim:	100		
Pre LEQ Fo:	Low	Pre HEQ Fo:	High
Pre LEQ Gain EdB3:	-4.0	Pre HEQ Gain EdB3:	+1.0
wet∕Dry:	20: 80	Src: 🔻 Off	Amt: +0

#### Selected effect

Select one of the available effects from this pop-up menu. This is equivalent to the "FX Group" parameters found in the "Effects > A/B FX Configuration" page (see above).

#### Parameters

The parameters shown in this page are the same already seen for the Style Play mode. See "Effects > Master 1, 2" on page 123 for details.

### Track Controls > Mode

#### Parameter

See "Track Controls > Mode" on page 124.

### Track Controls > Drum Edit

#### Parameter

See "Track Controls > Drum Edit" on page 125.

### Track Controls > Easy Edit

#### Parameter

See "Track Controls > Easy Edit" on page 126.

### **Event Edit > Event Edit**

The Event Edit is the page where you can edit each single MIDI event of the selected track. You can, for example, replace a note with a different one, or change its playing strength. See also "Event Edit procedure" on page 197 for more information on the event editing procedure.

	SEQUENCER: E	vent Edit				-	
	Event Edit	T: Track	1 ==				
	Position	Туре	Value1	Value2	Length		
	M:001.01.000	Ctrl	100	0		A	
	M:001.01.000	Ctrl	101	0		4	Scroll bar
	M:001.05.188	Note	A3	99	D:000.00.065		
	M:001.06.060	Note	B3	82	D:000.00.062		
	M:001.06.163	Bend	0			-	
	Track 1	6o/Cato	h	Insert	Delete		
Į	Event Filter						

#### Position

Position of the event, expressed in the form 'aaa.bb.ccc':

- 'aaa' is the measure
- 'bb' is the beat
- 'ccc' is the tick (each quarter beat = 384 ticks)

You can edit this parameter to move the event to a different position. You can edit a position in either of the following ways:

- (a) select the parameter, and use the VALUE DIAL to change the value, or
- (b) select the parameter, then touch it again; the numeric keypad will appear. Enter the new position by dialing in the three parts of the number, separated by a dot. Zeroes at the beginning can be omitted, as well as the least important parts of the number. For example, to enter position 002.02.193, dial "2.2.193"; to enter position 002.04.000 dial "2.4"; to enter position 002.01.000, simply dial "2".

#### Туре

Type of the event shown in the display. To edit it, select the parameter and use the VALUE DIAL to change its value.

This parameter also shows the (non editable) "End Of Track" marking, when the end of the track is reached.

#### Value 1 and 2

Values of the event shown in the display. Depending on the selected event, the meaning may change.

Here are the events contained in ordinary tracks (1-16).

Туре	First value	Second value
Note	Note name	Velocity
RX Noise	Note name	Velocity
Prog	Program Change number	-
Ctrl	Control Change number	Control Change value
Bend	Bending value	-
Aftt	Mono (Channel) Aftertouch value	-
PAft	Note to which the Aftertouch is applied	Poly Aftertouch value

And here are the events contained in the Master track.

Туре	First value	Second value
Tempo	Tempo change	-
Volume	Master Volume value	-
Meter	Meter (time signature) change ^(*)	_
KeySign	Key Signature ^(†)	-
Scale	One of the available preset Scales	Root note for the selected Scale
UScale (User Scale)	Altered note	Note alteration ^(‡)
QT (Quarter Tone)	Altered note	Note alteration (0, 50) ^(b)
QT Clear (Quarter Tone Clearing)	Reset of all Quarter Tone (QT) changes	-

(*). Meter changes can't be edited or inserted separately from a measure. To insert a Meter change, use the Insert function in the Edit section and insert a series of measures with the new meter. Existing data can then be copied or entered to these measures

(t). This is the key signature shown in the Score. If this event is missing, the Score will be shown as if it was in the key of C Major.

(‡). To edit User Scale and Quarter Tone settings, select the first value, then select the scale's degree to edit. Edit the second value to change the tuning of the selected note of the scale.

To edit the event Type and Values, select the parameter and use the VALUE DIAL to change their value. In case of numeric values, you can also press them twice to open the numeric keypad.

#### Length

Length of the selected Note event. The value format is the same as the Position value. Edit it in the same way.

**Note:** If you change a length of "000.00.000" to a different value, you can't go back to the original value. This rather uncommon zero-length value may be found in the drum and percussion tracks of Songs made in Backing Sequence mode.

#### Track

Use this pop-up menu to select the track to edit.

- Track 1...16 One of the ordinary tracks of the Song. These tracks contains musical data, like notes and controllers.
- Master This is a special track, containing Tempo changes, Meter changes, Scale and Transpose data, and the effect parameters.

#### Scrollbar

Use the scrollbar to browse the event through the list. You can also scroll by using the SHIFT + DIAL combination.

#### Go/Catch

This is a dual-function command.

• While the sequencer is not running, it works as a Go to Measure command. Touch it to open the Go to Measure dialog box:



When in this dialog box, select a target measure, and touch OK. The first event available in the target measure will be selected.

• While the sequencer is running, it works as a Catch Locator command. Touch it to show the event that is currently playing.

#### Insert

Touch the Insert button in the display to insert a new event at the current shown Position. The default values are Type = Note, Pitch = C4, Velocity = 100, Length = 192.

**Note:** You can't insert new events in an empty, non-recorded Song. To insert an event, you must first insert some empty measures by using the Insert Measure function (see "Song Edit > Cut/Insert Measures" on page 200).

#### Delete

Touch the Delete button in the display to delete the event selected in the display.

*Note:* The "End of Track" event cannot be deleted.

#### **Event Edit procedure**

Here is the general event editing procedure.

- While in the Event Edit page, press ▶/■ (PLAY/STOP) in the PLAYER 1 section to listen to the Song. Press it again to stop the Song.
- 2. Select the Filter page, and turn "Off" the filter for the event types you wish to see in the display (see "Event Edit > Filter" on page 198 for more information).
- 3. Return to the Event Edit page.
- 4. Use the "Track" pop-up menu to select the track to edit. The list of events contained in the selected track will appear in the display.

*For more information on the event types and their values, see above.* 

- **5.** Select the "Position" parameter. Use the VALUE DIAL (or touch the parameter again to open the numeric keypad) to change the event's position.
- 6. Select the "Type" parameter and use the VALUE DIAL to change the event type. Select the "Value 1 and 2" parameters and use the VALUE DIAL (or touch the parameter again to open the numeric keypad) to modify the selected value.

**7.** In the case of a Note event, select the Length parameter, and use the VALUE DIAL (or touch the parameter again to open the numeric keypad) to change the event's length.

• While the sequencer is not running, you may touch the Go/Catch button in the display to go to a different measure (see "Go/Catch" above)

• While the sequencer is running, you may use the Go/ Catch button in the display to see the currently playing event in the display (see "Go/Catch" above).

• Use the PLAYER 1 transport controls to listen to the Song.

- 8. Touch the Insert button in the display to insert an event at the Position shown in the display (a Note event with default values will be inserted). Touch the Delete button in the display to delete the selected event.
- **9.** When the editing is complete, you may select a different track (go to step 4).
- **10.** When finished editing the whole Song, select the Save Song command from the page menu to save the Song to a storage device. See "Save Song window" on page 203 for more information on saving a Song.

### **Event Edit > Filter**

This page is where you can select the event types to be shown in the Event Edit page.

SEQUENCER: Event Edi	t 🗾
Filter	
Note/RX Noise	After Touch
Program	Poly After Touch
Control	Pitch Bend
Tempo/Meter	Pa Controls
Event Edit Filter	

Turn On the filter for all event types you do not wish to see in the Event Edit page.

#### Note/RX Noise

	Notes and RX Noises.		
Program	Program Change events.		

Control Control Change events.

- Tempo/Meter Tempo and Meter (time signature) changes (Master Track only).
- After Touch Mono (Channel) Aftertouch events.

Poly After Touch

Poly Aftertouch events.

Pitch Bend Pitch Bend events.

Pa Controls Controls exclusive to Pa3XLe, like the Scale settings. These controls are recorded to the Master Track, and saved as System Exclusive data.

### Song Edit > Quantize

The quantize function corrects any rhythm error after recording.

SEQUENCER: Edit				
Quantize				
Track: 💌 Track 1				
Resolution: 🔻 🕽	1			
Start Tick: 001.01.000	, End Tick: 020.01.000			
Bottom Note: C-1				
Execute				
Play Play Play Play	Play Play Play Play			
<u>T01</u> T02 T03 T04	T05 T06 T07 T08			
Quantize Trans- Velocity Cut pose Velocity Insert	Delete Copy Move RX Conve			

After setting the various parameters, touch Execute to start the operation.

#### Track

Use this parameter to select a track.

All Quantize will apply to all tracks.

Track 1...16 Quantize will apply only to the selected track.

#### Resolution

This parameter sets the quantization value. For example, when you select a 1/8-note, all notes are moved to the nearest 1/8 division. When you select 1/4, all notes are moved to the nearest 1/4 division.



(1/32)... (1/4)

Grid resolution, in musical values. A "b...f" character added after the value means swing-quantization. A "3" means triplet.

#### Start / End Tick

Use these parameters to set the starting and ending points of the range to be quantized.

If you wish to select a four-measure sequence starting at the beginning of the Song, the Start will be positioned at 1.01.000, and the End at 5.01.000.

#### **Bottom / Top Note**

Use these parameters to set the bottom and top note of the keyboard range to quantize. If you select the same note as the Bottom and Top parameters, you can select a single percussive instrument in a Drum track.

**Note:** These parameters are available only when a Drum track is selected.

### Song Edit > Transpose

Here you can transpose the Song, a track or a part of a track.

SEQUENCER: Edit				
Transpose				
Track: Track 1				
Value: 0				
Start Tick: 001.01.000 End Tick: 020.01.000				
Bottom Note: C-1 Top Note: G9				
Execute				
Play         Play <th< th=""></th<>				
Quantize Trans- Pose Velocity Insert Delete Copy Move Convert				

After setting the various parameters, touch Execute to start the operation.

#### Track

Use this parameter to select a track.

All All tracks selected (apart for Drum tracks).

Track 1...16 Selected track.

#### Value

Transpose value (±127 semitones).

#### Start / End Tick

Use these parameters to set the starting and ending points of the range to transpose.

If you wish to select a four-measure sequence starting at the beginning of the Song, the Start will be positioned at 1.01.000, and the End at 5.01.000.

#### **Bottom / Top Note**

Use these parameters to set the bottom and top of the keyboard range to transpose. If you select the same note as the Bottom and Top parameters, you can select a single note, or a single percussive instrument in a Drum track.

### Song Edit > Velocity

Here you can change the Velocity value for the notes. An Advanced mode is available, allowing you to select a velocity curve for the selected range. This is useful to create fade-ins or fade-outs.

SEQUENCER: Edit	· · · · · · · · · · · · · · · · · · ·			
- Yelocity				
Track: Track 1				
Intensity: 100 %	Curve: 🔽 Curve 1			
Velocity Value: 🛛 🖉 🖇	End Vel. Value: 100 %			
Start Tick: 001.01.000	End Tick: 020.01.000			
Bottom Note: C-1	Top Note: G9			
Advanced Execute				
Play Play Play Play	Play Play Play Play			
T91 T92 T93 T94	T95 T96 T97 T98			
Quantize Pose Velocity Insert	Delete Copy Move Convert			

After setting the various parameters, touch Execute to start the operation.

#### Track

Use this parameter to select a track.

All All tracks selected.

Track 1...16 Selected track.

#### Value

Velocity change value.

#### Start / End Tick

Use these parameters to set the starting and ending points of the range to edit.

If you wish to select a four-measure sequence starting at the beginning of the Song, the Start will be positioned at 1.01.000, and the End at 5.01.000.

#### **Bottom / Top Note**

Use these parameters to set the bottom and top of the keyboard range to edit. If you select the same note as the Bottom and Top parameters, you can select a single percussive instrument in a Drum track.

#### Advanced

When this checkbox is checked, the "Intensity", "Curve", "Start Velocity Value" and "End Velocity Value" parameters can be edited.

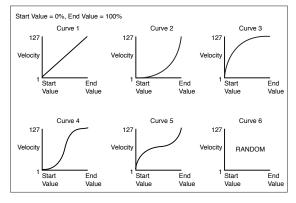
#### Intensity

(Only available in Advanced mode). Use this parameter to specify the degree to which the velocity data will be adjusted toward the curve you specify in "Curve".

0...100% Intensity value. With a setting of 0 [%], the velocity will not change. With a setting of 100 [%], the velocity will be changed the most.

#### Curve

(Only available in Advanced mode). Use this parameter to select one of the six curves, and to specify how the velocity will change over time.



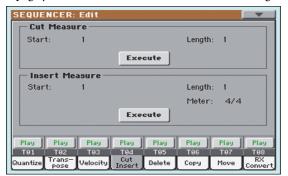
#### Start / End Vel. Value

(Only available in Advanced mode). Velocity change at the starting and ending ticks of the selected range.

0...100 Velocity change in percentage.

### Song Edit > Cut/Insert Measures

In this page you can cut or insert measures from the Song.



After selecting the Start and Length parameters, touch Execute to start the operation.

After the Cut, the following measures are moved back, to fill the cut measures.

After the Insert, the following measures are pushed forward to accommodate the inserted measures.

#### Start

First measure where to begin cutting/inserting.

#### Length

Number of measures to be cut/inserted.

#### Meter

Meter (time signature) of the measures to be inserted.

### Song Edit > Delete

This page is where you can delete MIDI events from the Song.

SEQUENCER:	Edit				
Delete					
Track:	▼ Track 1				
Event:	▼ A11				
Start Tick:	001.01.000	End Tick: 02	0.01.000		
Bottom Note:	C-1	Top Note: G9	)		
	Execute				
Play Play	Play Play	Play Play	Play Play		
T01 T02	T03 T04	T05 T06	T07 T08		
Quantize Trans-	Velocity Cut Insert	Delete Copy	Move RX Conver		

After setting the various parameters, touch Execute to start the operation.

#### Track

Use this parameter to select a track.

All	All tracks selected.
Track 116	Selected track.
Master	Master track. This is where the Tempo, Scale and Effect events are recorded.

#### Event

Type of MIDI event to delete.

All	All events. Measures will not be removed from the Song, and will remain empty.
Note	All notes in the selected range.
Dup.Note	All duplicate notes. When two notes with the

- Dup.Note All duplicate notes. When two notes with the same pitch are encountered on the same tick, the one with the lowest velocity is deleted.
- After Touch After Touch events.
- Pitch Bend Pitch Bend events.
- Prog.Change Program Change events, excluding the bundled Control Change #00 (Bank Select MSB) and #32 (Bank Select LSB).
- Ctl.Change All Control Change events, for example Bank Select, Modulation, Damper, Soft Pedal...

CC00/32...CC127

Single Control Change events. Double Control Change numbers (like 00/32) are MSB/LSB bundles.

#### Start / End Tick

Use these parameters to set the starting and ending points of the range to edit.

If you wish to select a four-measure sequence starting at the beginning of the Song, the Start will be positioned at 1.01.000, and the End at 5.01.000.

#### **Bottom / Top Note**

Use these parameters to set the bottom and top of the keyboard range to delete. If you select the same note as the Bottom and Top parameters, you can select a single note, or a single percussive instrument in a Drum track.

**Note:** These parameters are available only when the All or Note options are selected.

### Song Edit > Copy

#### Here you can copy tracks or phrases.

SEQUENCER: Edit				
Copy				
Mode: Merge				
From Track: 💌 All	To Track: 🔽 All			
Start Measure: 1	To Measure: 2			
End Measure: 1	Repeat Times: 1			
Execute				
Play Play Play Play T01 T02 T03 T04 Oursein Trans- United Cut	Play Play Play Play T05 T06 T07 T08			
Quantize Pose Velocity Insert	Delete Copy Move Convert			

After setting the various parameters, touch Execute to start the operation.

**Note:** If you copy too many events on the same "tick", the "Too many events!" message appears, and the copy operation is aborted.

#### Mode

Use this parameter to select the Copy mode.

- Merge Copied data are merged with the data at the target position.
- Overwrite Copied data replace all data at the target position. *Warning: Deleted data cannot be recovered!*

#### From Track... To Track

Use these parameters to select the source and target track to copy.

All All tracks. The target track cannot be selected.

Track 1...16 Selected source and target tracks.

#### Start Measure... End Measure

These parameters are the starting and ending measure to copy. For example, if From Measure=1 and To Measure=4, the first four measures are copied.

#### **To Measure**

This parameter is the first of the target measures.

#### **Repeat Times**

Number of times the copy must be executed. Copies will be consecutive.

### Song Edit > Move

Here you can shift a track forward or backward by just a few ticks or whole measures.

SEQUENCER:	Edit		
- Move			
Track:	▼ Track 1		
Start Tick.	001.01.000	To Tick:	001.01.192
Start Hok:	001.01.000	TO TICK:	001.01.192
End Tick:	001.01.192		
Execute			
Play Play	Play Play	Play Play	Play Play
T01 T02	T03 T04	T05 T06	T97 T98
Quantize Trans-		Delete Copy	Move RX Convert

After setting the various parameters, touch Execute to complete the operation.

#### Track

Use these parameters to select the track you want to move.

Track 1...16 Selected track.

#### Start / End Tick

These parameters set the starting and ending point of the range to move.

#### To Tick

This parameter allows you to set the target starting point of the moved track.

### Song Edit > RX Convert

You can use the RX Convert page to convert notes of the midifile into RX Noises, and vice-versa. This will help programming Songs on an external sequencer.



After having chosen a track to convert, touch Execute to complete the operation.

#### Track

Use these parameters to select the track containing the notes or RX Noises you want to convert.

#### **RX Note Velocity**

Use this parameter to adjust the volume level of the RX Noises in the selected track(s).

#### Add RX Noises to Guitar track

Use this parameter to automatically analyze the Standard MIDI File, and add RX Noises to Guitar tracks. This command scans a single track or the whole Standard MIDI File, looking for guitar strumming played by nylon, steel or electric guitars.

After scanning, a suitable Guitar sound will be automatically assigned to the relevant tracks, and RX Noises automatically added where needed.

#### **Convert RX Noises to MIDI Notes**

Use this parameter to convert the RX Noises contained in the selected track to ordinary MIDI Notes.

#### **Convert MIDI Notes to RX Noises**

Use this parameter to convert all the relevant MIDI Notes in the selected track to RX Noises.

#### Page menu

Touch the page menu icon to open the menu. Touch a command to select it. Touch anywhere in the display to close the menu without selecting a command.

Load Song	Delete Current Track		
Save Song	Solo Track		
Undo	Copy FX		
Overdub Step Recording	Paste FX		
Overwrite Step Recording	Exit from Record		
Delete Song			

#### Load Song

Select this command to open the Song Select window, and load a Song to the sequencer. (See "Song Select window" on page 203).

#### Save Song

Select this command to save the new or edited Song to a storage device as a Standard MIDI File. The file is automatically added the ".MID" extension. After selecting this command, the Save Song page appears (see "Save Song window" on page 203).

*Warning:* Turning the instrument off will delete the Song from memory. Save your Song to a storage device to avoid losing it.

**Warning:** The Song is also lost when switching from Sequencer to Style Play or Song Play mode, without previously saving the Song to a storage device.

#### Undo

When selecting this command, the latest operation is canceled, and data are reverted to the previous situation.

#### **Overdub Step Recording**

*Only available in Record mode.* Select this command to enter Overdub Step Record mode. This recording mode lets you enter events one at a time, adding events to the existing events. (See "Record mode > Step Record page" on page 186).

#### **Overwrite Step Recording**

*Only available in Record mode.* Select this command to enter Overwrite Step Record mode. This recording mode lets you enter events one at a time, overwriting all existing events. (See "Record mode > Step Record page" on page 186).

#### **Delete Song**

Select this command to delete the Song and create a new, blank Song.

#### **Delete Current Track**

Select this command to delete the track currently selected in the Track area (see "Track volume/status area" on page 185).

#### Solo Track

Select the track to be soloed, and check this item. You will hear only the selected track, and the 'Solo' warning will flash on the page header.

Uncheck this item to exit the Solo function.

**SHIFT** Keep the SHIFT button pressed and touch one of the tracks to solo it. Do the same on a soloed track to deactivate the Solo function.

#### Copy/Paste FX

Use this command to copy a single effect, or both effects of an FX group (A or B). See "Copy/Paste FX" on page 131 for detailed instructions.

#### **Exit from Record**

*Only available in Record mode.* Select this command to exit the Record mode, and go back to the Main page of the Sequencer Play mode (see "Sequencer Play - Main page" on page 181).

### Song Select window

This window appears when you select the "Load Song" command from the page menu, or press the SELECT button in the PLAYER 1 section of the control panel. See "Song Select window" on page 107 for details.

### Save Song window

The recorded Song is lost when the instrument enters standby. The Song is also lost when you overwrite it in Record mode, or if you confirm the warning message when switching to the Style Play or Song Play mode. You must save to a storage device any Song you wish to preserve.

This window appears when you select the "Save Song" command from the page menu.

Press EXIT to cancel saving and go back to the main page of the Sequencer operating mode.

	Directory				
	PLAYE	R Save Song			_
	Type	Name 🔺	Size	Date	
	MIDIP	Another MIDI Song	22K	23-09-03 14:59	-
	MIDIP	Canyon	25K	21-01-11 22:33	
	MIDI	LoveSong	22K	23-09-03 14:59	
	MIDI	My MIDI Song	22K	23-09-03 14:59	
Song	MIDI	Pinball	25K	21-01-11 22:32	-
path	-	G DISK]\MYSHOW\MIDI	_		=
putti	▼ DI9	6K Open Close	Locat	te Save	

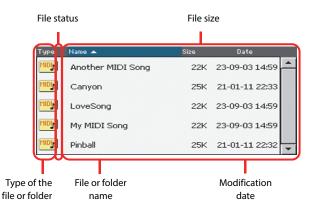
Storage device

#### Song path

This line shows the path of the location where you are saving the Song.

#### Directory

This is the list of the selected device's content.



Detailed information about this type of page can be read in "Song Select window" on page 107.

#### Storage device

Use this menu to select one of the available storage devices.

Device	Туре
DISK	Internal memory
SD Optional device inserted in the microSD slot	
USB	Optional device connected to the USB Host port

The actual name (label) of the device appears within square brackets ([]).

#### Open

Opens the selected folder (item whose icon looks like this: ____).

#### Close

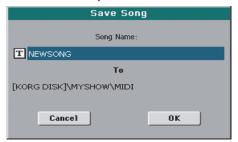
Closes the current folder, returning to the parent ("upper") folder.

#### Locate

Touch this button to see the Song assigned to the Sequencer. This is useful to quickly locate it, after you have browsed through long directories and "dug" into different folders.

#### Save

Touch this button to open the Save Song dialog box, and save the Song to the current directory.



• If no file has been selected in the display, prior to touching Save, the "NewSong" default name will be automatically assigned to the Song.

**Note:** If a file is selected, just touch the storage device name to deselect it.

• If a file has been selected in the display, prior to touching Save, the name of the selected file will be automatically assigned to the Song.

In any of the above situations, touch the **T** (Text Edit) button to edit the Song name.

**Warning:** If a file with the same name is already in the current directory, a message will warn you. If you confirm, the existing file will be overwritten. Select a file before saving only if you want to overwrite it (i.e., in case you are saving changes to an existing file).

#### Empty measure at the beginning of the Standard MIDI File

When saving a Song as a Standard MIDI File, an empty measure is automatically inserted to the beginning of the Song. This measure contains various Song initialization parameters.

#### Play/Mute status saved with the Song

When saving a Song, the Play/Mute status is saved with the Song. This status is preserved also when playing back the same Song in Song Play mode.

#### Master Transpose saved with the Song

When saving a Song, the Master Transpose value is saved with the Song. Since this value is saved as System Exclusive data, it is preserved also when playing back the Song in Song Play mode.

**Hint:** Since the Master Transpose is a global parameter, loading a Song with a non-standard transposition may result in unwanted transposing when loading other Songs that do not contain their own transposition data. To transpose a Song it is advisable to use the Transpose function in the Edit section of the Sequencer mode (see "Song Edit > Transpose" on page 199).

*You may also lock the Master Transpose, to avoid unwanted transposition. See "General Controls > Lock" on page 255 of the Global chapter.* 

As a general rule, you should use the Master Transpose (TRANS-POSE buttons on the control panel) when you need to transpose Keyboard tracks together with the Song. You should use the Edit mode Transpose function (see "Song Edit > Transpose" on page 199) when only the Song has to be transposed.

**Note:** The Master Transpose value is always shown on the page header:



#### Save Song procedure

- 1. If you are in Record mode, stop the sequencer and exit from the Record mode. Then go back to the main page of the Sequencer Play mode (see "Sequencer Play Main page" on page 181).
- 2. Select the Save Song command from the page menu. The Save Song page appears.
- **3.** Select the folder where you want to save the Song into. Use the Open and Close commands to browse open or close folders. Use the scrollbar to browse through the files.
- **4.** When you are in the directory where you want to save your Song to, touch the Save button in the display.

• To **overwrite** an existing file, select it before touching Save.

• To **create** a new file, do not select any file before touching Save. The "NewSong" ("NEWSONG.MID" on a storage device) name will be automatically assigned to the Song.

- **5.** After touching the Save button, the Save Song dialog box will appear.
- 6. If you like, touch the **T** (Text Edit) button to edit the name.
- **7.** Touch OK to confirm saving, or Cancel to stop the Save operation.

# Sound

The Sound operating mode is where you can listen to individual Sounds, and edit them. In this mode, the selected Sound can always be played across the full keyboard range.

Details on how to select a Sound are included in the "Selecting elements" chapter (see "Sound Select window" on page 105).

While in a different operating mode, you can easily select the Sound to be edited when switching to the Sound mode. Just select the track the Sound to be edited is assigned to, then keep the SHIFT button pressed while pressing the SOUND button.

### **The MIDI channel**

In Sound mode, Pa3XLe receives and transmits on the same channel of the Upper 1 track. If the Global channel is assigned, notes can also be received on this channel. See "MIDI > MIDI In Channels" on page 266 and "MIDI > MIDI Out Channels" on page 267 for more information.

### How to select oscillators

While in an edit page requiring an oscillator to be selected for editing, use the vertical row of buttons on the right (1...24 max) to select one of the available oscillators. The number of available oscillators depends on the "Oscillators Count" parameter (see page 209).

If you cannot see the desired oscillator, touch the scroll arrow, until the hidden oscillator is shown in the display.

When oscillators cannot be select, since the parameter contained in the current page are global and valid for the whole Sound, these buttons are greyed out, and cannot be selected.

### Sounds, Drum Kits, Digital Drawbars

Pa3XLe features three different types of Sounds:

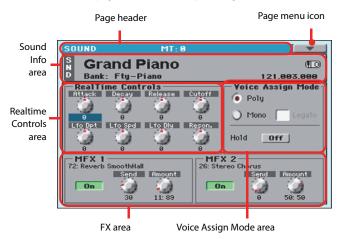
- Ordinary Sounds. These are normal instrument Sounds, like pianos, strings, basses.
- Drum Kits. These are drum and percussion kits, where each note of the keyboard is a different percussive instrument. You can find Drum Kits in the Drum & SFX and User Dk banks.
- Digital Drawbars. These are Sounds with a very complex structure, and a special usage, whose settings are saved into a Performance. See "Digital Drawbars page" on page 207 for more information.

Before pressing MENU to access the edit pages, you should select a Sound of the type you wish to edit or create.

**Note:** Notes pointing to special Drum Kit features are marked by the DRUM icon.

### Main page

Here is the main page of the Sound operating mode.



#### Page header

This line shows the current operating mode and transposition.

SOUND	MT: 0	
T	T	
Operating mode	Master Transpose (in semitones)	

#### **Operating mode name**

Name of the current operating mode.

#### **Master transpose**

Master transpose value in semitones. This value can be changed using the TRANSPOSE buttons on the control panel.

#### Page menu icon

Touch the page menu icon to open the menu. See "Page menu" on page 231 for more information.



#### Sound Info area

This is where basic details for the Sound are shown. Touch anywhere in this area to open the Sound Select window.

#### Sound name

Name of the Sound assigned to the corresponding Keyboard track.

#### Bank

Bank the current Sound belongs to.

#### 206 Sound Main page

#### Bank Select / Program Change sequence

Bank Select MSB / Bank Select LSB / Program Change numbers, in the form "CC00.CC32.PC".

- CC00 This section shows the value of the Control Change (CC) 00 message (or Bank Select MSB) for the selected Sound.
- CC32 This section shows the value of the Control Change (CC) 32 message (a.k.a. Bank Select LSB) for the selected Sound.
- PC This section shows the value of the Program Change (PC) message for the selected Sound. Values are in the standard 0-127 MIDI numbering format.

**Note:** Some manufacturers could use the 1-128 numbering system; when connecting your Pa3XLe to an instrument of this kind, increment the PC value by 1 unit.

#### **Octave Transpose icon**

Octave transpose value. Use the UPPER OCTAVE buttons to change this value.

#### **Realtime Controls area**

Controls in this area allow you to edit the main parameters of the Sounds assigned to each track. Touch one of them, and modify its value by using the VALUE DIAL controls (or moving your finger).

*Note:* All values refer to the original values of the Sound.

**Note:** When selecting the Write Sound command from the page menu, current parameter values, after editing the Realtime Controls, are saved with the Sound. After saving, Realtime Controls are set back to the default position.

**Note:** After selecting a different Sound, Realtime Control values are automatically set to zero.

- Attack Attack time. This is the time during which the sound goes from zero (at the moment when you strike a key) to it's maximum level.
- Decay Decay time. Time to go from the final Attack level to the beginning of the Sustain.
- Release Release time. This is the time during which the sound goes from the sustaining phase, to zero. The Release is triggered by releasing a key.
- Cutoff Filter cutoff. This sets the sound brightness.
- LFO Depth Intensity of the Vibrato (LFO).
- LFO Speed Speed of the Vibrato (LFO).
- LFO Delay Delay time before the Vibrato (LFO) begins, after the sound starts.
- Resonance Use the Filter Resonance to boost the cutoff frequency.

#### **Voice Assign Mode**

#### Poly

The Sound will play polyphonically, allowing you play chords.

#### Mono

The Sound will play monophonically, producing only one note at a time.

#### Legato

This parameter is available when the Mono option is selected.

*Note:* If "Legato" is On, certain multisamples or keyboard locations may produce an incorrect pitch.

On Legato is on. When multiple note-on's occur, the first note-on will retrigger the sound, and the second and subsequent note-on's will not retrigger.

> When legato is on, multiple note-on's will not retrigger the voice. If one note is already on and another note is turned on, the first voice will continue sounding. The oscillator sound, envelope, and LFO will not be reset, and only the pitch of the oscillator will be updated. This setting is effective for wind instrument sounds and analog synth-type sounds.

Off Legato is off. Notes will always be retriggered when note-on occurs.

When legato is off, multiple note-on's will retrigger the voice at each note-on. The oscillator sound, envelope, and LFO will be reset (and retriggered) according to the settings of the Sound.

#### Hold

Use this parameter to keep the notes sustained even after releasing the keys.

**Note:** Please remember the Hold must be On before playing the note to be held.

#### **FX** Area

In Sound mode, two Master effect processors (MFX1 and MFX2) are available.

#### On/Off

Use this button to turn on or off the corresponding effect.

#### Selected Effect

*Non editable.* This shows the effect assigned to the corresponding FX processor. To select a different effect, see "Effects > "B" FX Config" on page 230.

#### Send

Use this knob to adjust the level of the dry sound sent to the corresponding effect.

#### Amount

Volume of the effect that is added to the dry (non-effected) signal.

### **Digital Drawbars page**

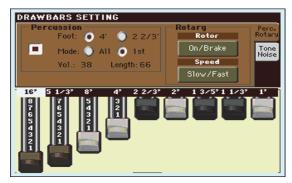
DIGITAL DRAWBARS are different from ordinary Sounds. Their parameters are not saved as a new Sound, but can be saved to a Performance. Therefore, when entering the Digital Drawbars page, the MENU button is disabled.

**Note:** In Style Play and Backing Sequence mode, only a Digital Drawbar Sound is available for the Keyboard tracks, and one for the Style tracks. Save them to a Performance (see "Write Performance dialog box" on page 132).

*Note:* In Song Play mode, there is a Digital Drawbars Sound for the Keyboard tracks, one for Song tracks 1-8, another one for Song tracks 9-16.

**Note:** In Sequencer mode there is a Digital Drawbars Sound for Song tracks 1-8 and one for Song tracks 9-16.

When you select the special DRAWBARS Sound in the Organ Sound bank, the Drawbars Setting page appears, and the current setting is assigned to the selected track.



To edit the Drawbars, drag the virtual sliders in the display. As an alternative, touch a slider and drag it on the display, or use the VALUE DIAL controls to change its value.

Each foot refers to the pipe length in a pipe organ, in which the sound is produced by pipes of different length. Longer pipes mean a lower sound; therefore, the 16' drawbar produces the lowest pitched sound, while the 1' drawbar produces the highest pitched sound.

### **Percussion/Rotary tab**

Percussion adds a percussive sound to the attack segment of the organ sound. Rotary adds the effect of a rotating speaker.



#### On/Off

Use this parameter to turn percussion on or off.

#### Foot

Use this parameter to select a percussion register.

4'	Percussion added to the 4' foot.
$2^{2}/_{3}$	Percussion added to the $2^2/_3$ foot.

#### Mode (Percussion Mode)

This parameters lets you decide if the percussion sound has to be triggered on the first note of a group of held notes, or to all notes.

- All The percussive attack is played on all notes of a chord.
- 1st The percussive attack is played only on the first note of a chord or a group of held notes. Release all notes to trigger the percussion again.

#### Volume (Percussion Volume)

Level of the percussive sound.

0...99 Level.

#### Length (Percussion Length)

Decay speed of the percussive sound.

0...99 Decay time.

#### Rotor On/Brake

Touch this button to start or stop the rotating speaker.

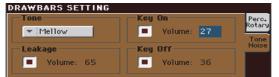
#### Speed Slow/Fast

Touch this button to switch the rotating speaker's speed (from slow to fast, or vice-versa).

**Note:** The "Rotor On/Brake" and "Speed Slow/Fast" parameters are only available when a Rotary effect has been assigned to one of the FX slots (effects #63 or #133).

#### Tone/Noise tab

Tone is the timbre of the sound. Noises are mechanical noises from the keyboard and the tonewheels.



#### Wave (Drawbar Wave)

#### Tone

Waveshape of the drawbars, producing the base timbre.

Mellow	A mellow-sounding synthetic wave.
Hard	A harder-sounding synthetic wave.

#### Leakage

Leakage from adjacent tonewheels, making the sound richer.

#### Key On

Noise of the keypress.

#### Key Off

Noise of the key release.

### **Edit menu**

From any page, press the MENU button to open the Sound edit menu. This menu gives access to the various Sound edit sections.

When in the menu, select an edit section, or press EXIT or SOUND to exit the menu and return to the main page. To return to the main page, you can also select the Main Page menu item.

When in an edit page, press EXIT or the SOUND button to return to the main page of the Sound operating mode.

• When an ordinary Sound is selected:



When a Drum Kit is selected, the "Basic" section is replaced by the "DrumKit" section:



Each item in this menu corresponds to an edit section. Each edit section groups various edit pages, that may be selected by touching the corresponding tab on the lower part of the display.

### **Edit page structure**

All edit pages share some basic elements.

		Pagemenu	
Operating mode Edi	it section	icon	
SOUND: Basic MT	1:0		
Oscillators Count	Yoice Assign Mode     Poly Single Trigger     Mono Legato	Select oscilla	
Low priority: 5 Transpose Range Top Key: C9	Priority: 💌 Last	Paran ters a	
Bottom Key: C-1	Hold		
Legato as OSC Trigge Max Time: 200 ms	er Max Range: 5 st		
Sound OSC Vel-Key Da Basic Basic Zone M	mper Damper EQ 1ode Trigger EQ	Tabs	

#### **Operating mode**

This indicates that the instrument is in Sound mode.

#### **Edit section**

This identifies the current edit section, corresponding to one of the items of the edit menu (see "Edit menu" on page 208).

#### Page menu icon

Touch this icon to open the page menu (see "Page menu" on page 231).

#### Selected oscillator

Use these buttons to select the oscillator to edit.

#### **Parameters area**

Each page contains various parameters. Use the tabs to select one of the available pages. For detailed information on the various types of parameters, see sections starting from page 208.

#### Tabs

Use tabs to select one of the edit pages of the current edit section.

### **Basic > Sound Basic**

Here you can make basic settings for the Sound, such as basic oscillator settings, the oscillator count, and the polyphonic mode.

SOUND: Basic M	T: 0
Coscillators Count	Voice Assign Mode
	💿 Poly 🦳 Single Trigger 🖳
15	O Mono 🗌 Legato
Low priority: 5	Priority: 🔽 Last
-Transpose Range-	Priority: Last
	3
Top Key: C9	
Bottom Key: C-1	Hold
	4
Legato as OSC Trigg	
Max Time: 200 ms	Max Range: 5 st
	amper Damper EQ Mode Trigger EQ

#### **Oscillator Count**

#### **Oscillators Count**

Use this box to specify the number of oscillators (up to 24) the Sound is based on.

The total amount of polyphony varies depending on the number of oscillators used by the Sound (a maximum of 128 with only 1 oscillator per voice).

Note: When editing the Grand Piano sound, keep in mind Oscillators 10~15 can only be heard when the Damper pedal is depressed.

#### Low priority

Use this parameter to decide if the highest-numbered oscillators must be turned off when more polyphony voices are needed. Keep in mind that, with a dense polyphony, missing oscillators might not even be heard.

- 0 No oscillator will be turned off in any case.
- 1 The highest-numbered oscillator will be turned off, if needed.
- 2 The two highest-numbered oscillators can be turned off, one after the other, if needed.
- [n]...24 The n-numbered oscillators (up to 24) can be turned off, one after the other, if needed.

#### **Transpose Range**

#### **Top/Bottom Key**

Use these parameters to set a range for transposition. Inside this range notes are transposed. Outside this range, they are not transposed. This is useful to avoid RX Sounds being transposed when transposing a Sound.

Note: Set these (general) values so that all RX Noises assigned to any Oscillator fall out of the Transpose Range. For example, if you assigned an RX Noise to a G7 on OSC1, and an RX Noise to an A7 on OSC2, set the "Top Key" value no higher than F#7 (just below the lowest RX Noise).

#### **Voice Assign Mode**

#### Poly/Mono

This is the polyphony mode of the Sound.

- Poly The Sound will play polyphonically, allowing you to play chords.
- Mono The Sound will play monophonically, producing only one note at a time.

#### Single Trigger

This parameter is available when the selected mode is Poly.

- On When the same note is played repeatedly, the previous note will be silenced before the next note is sounded, so that the notes do not overlap.
- Off vious note will not be silenced before the next note is sounded.

#### Legato

This parameter is only available when the selected mode is Mono. It is the same found on the main page of the Sound mode.

See "Legato" on page 206 for information on this parameter.

#### Priority

This parameter is available when the selected mode is Mono. It specifies which note will be given priority to play when two or more notes are played simultaneously.

Low	Lowest note will take priority.
High	Highest note will take priority.
Last	Last note will take priority.

#### Hold

Use this parameter to keep the notes sustained even after releasing the keys.

#### Legato as OSC Trigger

The parameters included in this section are to be considered when a note is played 'legato', i.e., with no gap with the previous note. These parameters are valid for the whole Sound (all oscillators).

#### **Max Time**

This delay allows notes to be considered Legato, even if there is a small gap before them. This is useful to avoid some notes in a chord are played Legato, and some others Staccato.

Notes played with a small gap are still considered 1...999 ms Legato notes. A value of approx. 15 ms is usually considered effective when playing chords.

#### Max Range

This is the range (in semitones) within the Legato is considered. If you play a wider interval, the note is considered Staccato. This is typical of some acoustic instruments, where legato is only possible within a small interval, but not on wider ones.

As an example, please try the Sound "Nylon Guitar DNC", where the Max Range is 5 semitones. Play legato with intervals smaller than 5 semitones, and you will hear how smoother legato notes will become. Play legato with wider intervals, and legato smoothing will be lost.

1...127 st Max range in semitones.

### **Basic > OSC Basic**

The multisample(s) on which the Sound will be based can be selected here for each of the sixteen oscillators. Each oscillator can use 1 or 2 multisamples, each one assigned to the High or Low layer.

SOUND: Basic MT: 0	-
OSC Multisample	
High: 🔻 ROM Offset: 💌 Off Rev	Ľ
0 GrandPiano_L Level: 127	
Low: TROM Offset: TOff Rev	2
560 Empty Level: 115	Ó
Oct: 0 Transpose: 0 Offset Int. by AMS: 0	3
Tune:0 Vel SW L->H:1 AMS: Velocity	0
OSC Trigger Mode	4
Mode: 💌 Normal Delay: 0000ms	$\mathbf{O}$
OSC Off when Sound Controllers are On	Ŧ
Sound OSC Vel-Key Damper Damper EQ Basic Zone Mode Trigger EQ	

#### **OSC Multisample**

#### High/Low Bank/Num

Use these parameters to select a different multisample for each of the High and Low layers. You can use velocity to switch between the two multisamples. Offset and Level can be adjusted independently for the High and Low multisamples.

The High and Low pop-up menus is where you select the bank (ROM or RAM), while the numeric field under it is for selecting the multisample inside the selected bank. The Sound name appears on its right.

The multisample you select for the High layer will be triggered by velocities higher than the value of the "Velocity Multisample Switch Low-High" parameter (see page 210). If you do not wish to use velocity switching, set the switch to a value of 001, and select only the High multisample.

- ROM The Factory bank. The Factory area of the internal memory contains 834 different multisamples (preset multisamples), supplied by Korg as standard.
- RAM RAM multisample, read from the RAM. These are user-loaded multisamples.

**Note:** If you create a new Sound based on a RAM multisample, the RAM samples must be loaded from the internal memory or from a connected USB pen driver.

In case samples are not loaded, no sound will be heard, even if the Sound can be selected and its name appears in the display.

**Note:** Each multisample has an upper note range limit, and cannot produce sound when played above that limit.

#### Offset

These parameters specify the point where the multisample(s) will begin to play. For some multisamples this parameter will not be available.

Off The sound will start from the beginning of the multisample waveform.

- 1st...6th The sound will begin from the offset location predetermined for each sample.
- No Attack The initial portion of the multisample is ignored.
- AMS Activates the Alternate Modulation Source (see below).

#### PseudoRandom

(Only works when more than one Offset point is available in the multisample). Randomly selects one of the available Offset points (including Attack and Off).

#### Level

These parameters specify the level of each multisample.

0...127 Multisample level.

**Note:** Depending on the multisample, high settings of this parameter may cause the sound to distort when a chord is played. If this occurs, lower the level.

#### Octave

Use this parameter to adjust the pitch of the selected oscillator in octave units. The normal octave of the multisample is "0".

-2...+1 Octave transposition.

#### Transpose

Use this parameter to adjust the pitch of the selected oscillator in semitone steps over a range of  $\pm 1$  octave.

-12...+12 Transposition in semitones.

#### Tune

Use this parameter to adjust the pitch of the sample in one-cent steps (a semitone is 100 cents) over a range of  $\pm 1$  octave.

-1200...+1200

Fine-tune value in cents.

#### **Velocity Multisample Switch Low-High**

This is the velocity value dividing the High and Low layers for the selected oscillator. Notes struck harder than this value will be played by the High multisample.

#### AMS / Offset Intensity by AMS

(Only available when the AMS option is selected in the "Offset" parameter.) Alternate Modulation Source for the Offset. See "AMS (Alternate Modulation Source) list" on page 233.

When the "Offset Intensity by AMS" parameter has a positive value, the selected Offset point will depend on the AMS value. For example, if the selected AMS is the Velocity, when playing softly you will select the Off or 1st Offset, when playing loudly you will select the 6th or No Attack Offset.

When the "Offset Intensity by AMS" parameter has a negative value, the selection will happen in reverse (higher-numbered Offsets will be selected before the lowest-numbered ones).

#### **OSC Trigger Mode**

OSC Trigger parameters are used to set the condition to trigger the selected Oscillator. For example, a Normal Oscillator will always play, while a Legato Oscillator will only play when a note is played Legato.

#### Mode

This is the trigger that allows the selected Oscillator to play.

Normal The Oscillator always plays when a key is pressed (unless the "OSC Off when Sound Controllers are On" parameter is checked).

- Legato The Oscillator only plays when the note is played 'legato'. The delay and pitch interval from the previous note are also to be considered, as set in the Sound > Basic page (see "Legato as OSC Trigger" above).
- Staccato The Oscillator only plays when the note is NOT played legato (it is the opposite of the above choice).

Sound Controller 1

The Oscillator only plays after a switch or footswitch programmed as the Sound Controller 1 has been pressed. Press and release it, and the next note will also trigger the selected Oscillator. If you keep it pressed, the Oscillator will continue to be triggered until you release the controller.

**Note:** In Sequencer and Sound mode, the Assignable Switch 1 is automatically assigned to Sound Controller 1.

*Hint:* This (like the following Sound Controllers) is especially useful to enable a different nuance to the following note(s).

Sound Controller 2

As the above, but with a switch or footswitch programmed as the Sound Controller 2.

**Note:** In Sequencer and Sound mode, the Assignable Switch 2 is automatically assigned to Sound Controller 2.

Sound Controller Y+

As the above, but with the Joystick, assigned as the Sound Controller, pushed at least half-way forward (value 64). The controller is turned off when the Joystick is released. This control is equivalent to a CC#01 (Modulation) Control Change message.

Sound Controller Y-

As the above, but with the Joystick, assigned as the Sound Controller, pulled at least half-way back (value 64). The controller is turned off when the Joystick is released. This control is equivalent to a CC#02 (Breath Controller) Control Change message.

Cycle 1 All Oscillators with this same trigger mode assigned will play in cycle. For example, if Oscillators 1, 2 and 4 are assigned the Cycle 1 trigger mode, the following note will trigger Oscillator 1, then 2, then 4, then 1 again.

*Hint:* This is especially useful to trigger different sound nuances or create vector-like sound sequences.

- Cycle 2 As the above, for use with a different (and parallel) group of Oscillators. Having two Cycle Trigger Modes allows for cycling stereo multisamples.
- Random As the above, but with a random selection of Oscillators within the assigned group.

After Touch Trigger On

The Oscillator starts playing when an After Touch message with a value of at least 90 is received. The Velocity value is the same as the latest Note On message. The Oscillator will stop playing when the After Touch value falls back to zero.

*Hint:* This (like the following Triggers) is especially useful to trigger harmonics or growls when a note is already playing.

Y+ Trigger On

As the above, but with the Joystick, assigned as the Sound Controller, pushed at least half-way forward (value 64). The controller is turned off when the Joystick is released. This control is equivalent to a CC#01 (Modulation) Control Change message.

Y- Trigger On

As the above, but with the Joystick, assigned as the Sound Controller, pulled at least half-way back (value 64). The controller is turned off when the Joystick is released. This control is equivalent to a CC#02 (Breath Controller) Control Change message.

- Legato Up Like Legato, but is only activated when the second note is out of the "Max Range" value (see page 209) and it is higher than the first one.
- Legato Down Like Legato, but is only activated when the second note is out of the "Max Range" value (see page 209) and it is lower than the first one.

#### Delay

This parameter sets a delay time from the note-on to the real beginning of the sound. With a setting of KeyOff, the sound will begin when note-off occurs. This is useful to create sounds such as the "click" that is heard when a harpsichord note is released. In this case, set the "Sustain" parameter to 0 (see page 224).

- 0...5000ms Delay time in milliseconds.
- Key Off The sound will begin when the note is released. The note velocity is read from the Key On Velocity.
- Key Rel Key Release. The sound will begin when the note is released. The note velocity is read from the Key Off Velocity.
- Nat Rel Natural Release. The sound will begin when the note is released. The note starts from the current volume of the sound. If the sound's volume is already at zero, this oscillator is not retriggered.

#### **OSC Off when Sound Controllers are On**

This 'mirrors' the way Sound Controllers work. With this parameter checked, the current Oscillator will not play when one of the Sound Controllers (Sound Controller 1, Sound Controller 2, Sound Controller Y+, Sound Controller Y-) is activated. It should be applied to Oscillators with Normal, Legato, Staccato, Cycle 1, Cycle 2, Random, After Touch Trigger On, Y+ Trigger On, Y- Trigger On, Legato Up and Legato Down trigger modes, that can be turned off by using a switch, footswitch, or the Joystick, programmed as a Sound Controller.

### **Basic > Vel/Key Zone**

Here you can set a note and velocity range "window" for the selected oscillator.

SOUND: Basic	MT: 0		
- Yelocity Zone	·		
Top:	127		ιĻ
Bottom:	104		
- Keyboard Ran	ge		2
Top Key:	D#9		- lô
Bottom Key:	C-1		3
- Scaled Veloc	i ty		
Top:	127		4
Bottom:	104		
			+
Sound OSC V Basic Basic	el/Key Damper Da Zone Mode Tr	mper EQ	

#### **Velocity Zone**

Here you can specify the velocity range for the selected oscillator.

**Note:** You cannot set the Bottom Velocity higher than the Top Velocity, nor the Top Velocity lower than the Bottom Velocity.

0...127 Assigned velocity.

#### **Keyboard Range**

Here you can specify the note range for the selected oscillator.

**Note:** You cannot set the Bottom Key higher than the Top key, nor the Top Key lower than the Bottom key.

C-1...G9 Assigned note.

#### **Scaled Velocity**

Use these parameters to scale velocity values received by the oscillator. By using the "Velocity Zone" function (see above), an oscillator may be limited to a restricted range (say, 10 to 20), that may result in weak dynamics when the associated sample is triggered.

By assigning a different value to these parameters, the restricted range will be converted to a wider range (for example, the lowest range value of 10 may be converted to a Scaled Velocity value of 0, and the highest range value of 20 may be converted to a Scaled Velocity value of 127). All values included between the minimum and maximum value are scaled accordingly.

As a consequence, you can create an RX Sound of guitar, by assigning the guitar fret noise to the 10~20 velocity range. When a dynamics value between 10~20 is received, the real velocity value is scaled to the Scaled Velocity values, and plays louder.

0...127 Assigned velocity value.

### **Basic > Damper Mode**

Here you can program how the Damper pedal works, the Resonance/Halo effect, and the range within the Note Off message is not sent to the selected Oscillator:

Damper Mode: 💌 Repedaling	
Resonance/Halo	
Attack time: Ø Release time: Ø	2
Volume scaling: 100 %	
	3
No Note Off Range:	
From Note: G6	4
	2

#### **Damper Mode**

Here you can program the Damper Mode for each Oscillator.

#### **Damper Mode**

This parameter determines how the Damper pedal works.

- Normal The Damper pedal works as usual: by keeping it pressed, the note decay is lengthened, to simulate the longer note decay of an acoustic piano.
- Damper Off The Damper pedal is deactivated for the selected Oscillator.

**Hint:** Set the Damper to Damper Off, if you plan to use the selected Oscillator in the Damper Trigger page to trigger sounds. Check the Sound "Harmonica DNC", and see how the Damper Trigger is used.

#### Resonance/Halo

The Damper pedal enables a multisample, normally used for the Piano Resonance/Halo effect. If the pedal is pressed when the note is already playing, the speed at which the multisample appears and disappears, and the volume it can reach, depend on the "Resonance/Halo" parameters programmed below.

**Hint:** This Damper mode is much more realistic than the Normal mode, but also 'steals' more notes from the overall polyphony, and is especially suggested for solo piano playing.

**Note:** Half-pedaling, as well as Damper messages received via MIDI (as Control Change #64), control the level of the Resonance/Halo effect.

Repedaling This mode acts as the Normal mode, but also enables the Damper pedal effect when the pedal is pressed after the note has been released (Note Off). In this case, the Damper effect starts from the current Release level, and decays slowly.

### **Resonance/Halo**

Here you can program the Resonance/Halo effect that is enabled by the "Resonance/Halo" Damper Mode (see above). These parameters only affect the Resonance/Halo that is enabled when pressing the Damper pedal down when a note is already playing.

#### **Attack Time**

Time needed to the Resonance/Halo to reach the maximum level after the Damper pedal has been pressed.

0...99 Attack time as a value relative to the current Amp Env Attack value.

#### **Release Time**

Time needed to the Resonance/Halo to extinguish after the Damper pedal has been released.

0...99 Release time as a value relative to the current Amp Env Release value.

#### **Volume Scaling**

Volume of the Resonance/Halo effect, relative to the current level of the sound (as determined by the sum of the Multisample Volume, Velocity value and current Amp Env value).

- 0% No volume at all.
- 1...100% Volume expressed as a percentage of the current sound level.

### **No Note Off Range**

#### **From Note**

Like in an acoustic piano, the dampers can only dampen strings up to a certain pitch. Starting from that pitch, it is as if the Damper was always pressed down.

**Note:** This parameter only affects the Normal Damper mode. It has no effect on the Resonance/Halo mode.

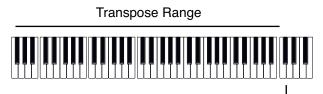
C#-1...G9 Note starting from which the Damper is always pressed down. In an acoustic piano, this is usually set to G6.

# **Basic > Damper Trigger**

Here you can set the notes triggered by pressing and releasing the Damper Pedal. The parameters in this page have effect on the Sound as a whole, and not on a single Oscillator.

1
0
3
X
C
Ī

As warned by the message on the lower area of the display, these parameters have no effect if the assigned note falls inside of the Transpose Range programmed in the "Basic > Sound Basic" page (see "Transpose Range" on page 209). Please either choose a note out of that range, or modify the Transpose Range, so that the note is either higher or lower than that range.



Damper Trigger Sample

### **Damper On Trigger**

Pressing down the Damper pedal (Damper On) can play a special sample assigned to a particular note (for example, pedal down squeaking in the Sound "Grand Piano RX", breathing in the Sound "Harmonica DNC" ...).

#### Note

Note where the special Damper On sample is located.

#### Velocity

Fixed velocity of the special Damper On sample.

#### Note Off on Damper Off

If checked, the special Damper On sample stops playing when the Damper pedal is released.

## **Damper Off Trigger**

Releasing the Damper pedal (Damper Off) can play a special sample assigned to a particular note (for example, Damper pedal release noise in the Sound "Grand Piano RX").

#### Note

Note where the special Damper Off sample is located.

#### Velocity

Fixed velocity of the special Damper Off sample.

# Basic > EQ

In this page, you can set the semi-parametric three-band equalizer for the selected oscillator.

SOUND: Basic	MT: 0			-
-Oscillator E	qualizer ——			
Enable			T 🕗	Ļ
			Ř 🍛 M 99	
Low Gain EdB3	Mid Gain EdB]	/Freg [Hz]	Hi Gain [dB]	
		<u></u>	<u></u>	2
1			<u></u>	
+0.0 dB	+0.0 dB	2.50 KHZ	+0.0 dB	3
				4
				0
Sound OSC V Basic Basic	Vel∕Key Damper Zone Mode	Damper Trigger	EQ J	

#### Enable

Check this box to activate the equalizer on the selected oscillator.

#### TRIM

This knob allows you to limit the level of the signal passing through the equalizer. Extreme equalization values can overload the audio circuits and lead to distortion. This control lets you set equalization as desired, and at the same time avoid overloading.

0...99 Limiting value. The higher, the most effective it is.

#### Low Gain

Low frequencies equalization. This is a shelving curve filter. Values are shown in decibels (dB).

-18...+18dB Low gain value in decibels.

#### Mid (Middle) Gain

Middle frequencies equalization. This is a bell curve filter. Values are shown in decibels (dB).

-18...+18dB Middle gain value in decibels.

#### Mid (Middle) Freq

Centre frequency of the middle frequencies equalization.

-0.100...+10 kHz

Centre frequency in kHz.

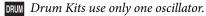
#### Hi (High) Gain

High frequencies equalization. This is a shelving curve filter. Values are shown in decibels (dB).

-18...+18dB High gain value in decibels.

# DrumKit > Sample Setup (Drum Kits)

This page appears when you edit a Drum Kit. Here you can select a different percussive sample for each key and layer.



	SOUND: DrumKit MT: 0
	KEY: C-1 Layers: 🔽 1 📕 Assign
Selected	
Layer	Lauer Selector & Yelocitu Sample Switch
Velocity	$001 \rightarrow 127 \rightarrow 127 \rightarrow 127 \rightarrow 127 \rightarrow 127 \rightarrow 127 \rightarrow 127$
Switches	Drum Sample       ▼ ROM     Rev Ofs: ▼ Off       AMS     ▼ Velocity
	328 SD Wood2 pp (Stereo) Level: -65
	Attack:0 Decay: +17 Transpose:0 Amb.Level:-75
	Cutoff:0 Resonance:0 Tune: 0 Time: +10
	Sample EQ Voice Setup EQ Mixer

# Key

#### Key

Key in edit. To select a key, you can press a key on the keyboard while this parameter is selected.

#### Layers

Number of layers assigned to the selected key. Depending on the number of selected layers, you can have a different number of velocity switches.

#### Assign

Use this parameter to turn the sample on/off.

On	The sample is assigned to the selected key.
Off	The sample is not assigned. The sample assigned
	to the next highest assigned key is used instead.

# Layer Selector & Velocity Sample Switch

#### Selected Layer

Use these radio buttons to select the layer to edit. The available layers depends on the "Layers" parameter.

#### **Velocity Switches**

Each of these values separates the two adjacent layers for the selected sample/key. Notes stricken harder than a velocity switch will be played by the layer on the right, while notes stricken softer are played by the layer on the left.

The first and last values are not editable, and are always 001 and 127 (respectively).

# **Drum Sample**

#### Bank/Num/Name

Use these parameters to select a different Drum Sample for each layer. You can use velocity to switch between the available samples. Offset and Level can be adjusted independently for the various drum samples. The pop-up menu is where you select the bank (ROM or RAM), while the numeric field under it is for selecting the sample inside the selected bank. The sample name appears on its right.

The sample you select for the current layer will be triggered by velocities higher than the value of the "Velocity Switches" parameter (see page 214). If you do not wish to use velocity switching, assign just one layer to the selected key, and assign a sample only to Layer 1.

ROM The Factory bank. The internal Factory area of the Flash-ROM memory contains 1065 different samples (preset samples), supplied by Korg as standard.

RAM RAM sample, read from the RAM. These are user-loaded samples.

**Note:** If you create a new Drum Kit based on RAM samples, the RAM samples must be loaded from the internal memory or from a device connected to the USB Host port.

In case samples are not loaded, no sound will be heard, even if the Drum Kit can be selected and its name appears in the display.

**Note:** Each sample has an upper note range limit, and may not produce sound when played above that limit.

#### **Rev (Reverse)**

The sample will be played in reverse. In the case of Factory (Flash-ROM) or User (RAM) samples that were originally specified to loop, the sample will be played back in "one-shot" reverse mode. If the sample was originally set to reverse, it will playback without change.

- On The sample will playback in reverse.
- Off The sample will play back normally.

#### Ofs (Offset)

These parameters specify the point where the sample will begin to play. For some samples this parameter will not be available.

- Off The sound will start from the beginning of the sample.
- 1st...6th The sound will begin from the offset location pre-determined for each sample.
- NoAtk The initial portion of the multisample is ignored.
- AMS Activates the Alternate Modulation Source (see below).

#### PseudoRandom

(Only works when more than one Offset point is available in the multisample). Randomly selects one of the available Offset points (including Attack and Off).

### AMS / Int(ensity)

(Only available when the AMS option is selected in the "Offset" parameter.) Alternate Modulation Source for the Offset. See "AMS (Alternate Modulation Source) list" on page 233.

When the "Intensity" parameter has a positive value, the selected Offset point will depend on the AMS value. For example, if the selected AMS is the Velocity, when playing softly you will select the Off or 1st Offset, when playing loudly you will select the 6th or No Attack Offset.

When the "Intensity" parameter has a negative value, the selection will happen in reverse (higher-numbered Offsets will be selected before the lowest-numbered ones).

#### Level

This parameter specifies the level of the sample. For more information, see "Level" on page 210.

#### Attack

This parameter is an offset to the selected sample's EG Attack.

#### Decay

This parameter is an offset to the selected sample's EG Decay.

#### Cutoff

This parameter sets the cutoff frequency for the filter applied to the selected sample.

#### Resonance

This parameter sets the resonance for the filter applied to the selected sample.

#### Transpose

This parameter transposes the selected sample. Use it to change the pitch of the selected key.

0 No transposition applied	•
----------------------------	---

-64...+63 Transpose value in semitones.

#### Tune

Use this parameter to fine-tune the assigned sample.

0	Original tuning.
---	------------------

-99...+99 Fine-tuning value in cents (1/100 of a semitone).

#### Amb Level / Time

(*These parameters are only available if the selected Drum sample is of the "Ambient" type.*) When these parameters are available, "Level" control the volume of the direct (dry) sounds, while "Amb. Level" and "Time" control the volume and length of the ambience respectively.

# DrumKit > EQ (Drum Kits)

This page appears when you edit a Drum Kit. In this page, you can set the semi-parametric three-band equalizer for the selected key, layer and Drum sample.

SOUND: DrumKit	t MT:0		
KEY: 0-1	Layers: 🔻	1	Assign
-Layer Selecto	r & Yelocity	j Sample S⊮i	itch
010	2 🔾 З	$\bigcirc 4 \bigcirc \bigcirc$	5 0 6
001 → 127 →	127 → 12	7 → 127 →	127 → 127
Drum Sample	Equalizer —		т 200
Enable			Ř 🥥 I 99
Low Gain EdB3	Mid Gain EdB	]/Freq [Hz]	Hi Gain EdB]
	- Ø	0	- 🕗 📋
+0.0 dB	+0.0 dB	2.50 KHZ	+0.0 dB
	oice ixer		

# Key

See "Key" on page 214.

# Layer Selector & Velocity Sample Switch

See "Layer Selector & Velocity Sample Switch" on page 214.

# **Drum Sample Equalizer**

#### Enable

Check this box to activate the equalizer on the selected oscillator.

#### TRIM

This knob allows you to limit the level of the signal passing through the equalizer. Extreme equalization values can overload the audio circuits and lead to distortion. This control lets you set equalization as desired, and at the same time avoid overloading.

0...99 Limiting value. The higher, the most effective it is.

#### Low Gain

Low frequencies equalization. This is a shelving curve filter. Values are shown in decibels (dB).

-18...+18dB Low gain value in decibels.

#### Mid (Middle) Gain

Middle frequencies equalization. This is a bell curve filter. Values are shown in decibels (dB).

-18...+18dB Middle gain value in decibels.

#### Mid (Middle) Freq

Centre frequency of the middle frequencies equalization.

-0.100...+10 kHz

Centre frequency in kHz.

#### Hi (High) Gain

High frequencies equalization. This is a shelving curve filter. Values are shown in decibels (dB).

-18...+18dB High gain value in decibels.

# DrumKit > Voice Mixer (Drum Kits)

This page appears when you edit a Drum Kit. Here you can set various parameters for the different percussive sample assigned to the selected key and layer.

SOUND: DrumKit MT: 0	
KEY: C-1 Layers: 💌	1 Assign
- Yoice Assign Mode	Mixer
Single Trigger	Pan: C 00
Exclusive Group: <mark>Off</mark>	Send to MFX1:127
Enable Note On Receive	Send to MFX2:127
Enable Note Off Receive	
Sample EQ Voice Setup EQ Mixer	

# Key

See "Key" on page 214.

# **Voice Assign Mode**

#### **Single Trigger**

Use this parameter to set the sample as a single-triggered one.

On	When the same key (note) is played repeatedly, the previous note will be stopped before the new note is triggered, so that they will not overlap.
Off	When the same key (note) is played repeatedly, the previous note will not be stopped before the new note is triggered.

#### **Exclusive Group**

Exclusive Groups are sets of mutually exclusive keys, stopping each other. For example, if the Open Hi-Hat and Closed Hi-Hat are assigned the same Exclusive Group, playing an Open Hi-Hat will stop the Closed Hi-Hat playing.

None No Exclusive Group assigned. The selected key will not be stopped by any other key.

1...127 Exclusive Groups assigned to the selected key. When you play this key, all other keys assigned to the same Exclusive Group will be stopped, and this key will be stopped by other keys assigned to the same Exclusive Group.

#### **Enable Note On Receive**

Use this parameter to enable/disable the reception of the Note On (Key On) message.

On	The Note On message is normally received.
----	-------------------------------------------

Off The Note On message is not received. Therefore, the corresponding key is muted.

#### **Enable Note Off Receive**

Use this parameter to enable/disable the reception of the Note Off (Key Off) message.

On The sound will stop as soon as you release the key.

Off

The sound will continue playing up to the end of the sample. The Note Off message is ignored.

### Mixer

#### Pan

This parameter sets the position in the stereo panorama of the selected key.

#### Send to MFX1, MFX2

These parameters set the MFX1 or MFX2 send level for the selected key.

# Pitch > Pitch Mod

Here you can make pitch settings for each oscillator. These settings specify how keyboard location will affect the pitch of each oscillator, and select the controllers that will affect the oscillator pitch and specify the depth of control. You can also specify the amount of pitch change produced by the Pitch EG and by LFO1 and LFO2, switch portamento on/off and specify how it will apply.

SOUND: Pitch	MT: 0		-
Pitch Ditch Pitch Slope: +1	0 JS(+X):+2	AMS: - Off	┓┣
▼ Normal	JS(-X):-2	Intensity: +12.00	1
Ribbon To Pitch	: 0		
Velocity Intensi	ty: +12.00   AM	S: 🔻 Off	
	Inte	ensity: +00.00	3
Enable	LF01/12	0 AMS: 🔻 Off	٦Ŏ
Fingered	JS+Y: +00.1	5 Intensity: +00.00	4
Time: 32		10 AMS: - Off 10 Intensity: +00.00	
Pitch Pitch		1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
Mod EG			

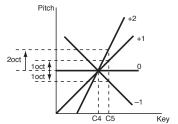
### **Pitch**

#### **Pitch Slope**

Normally you will leave this parameter at +1.0. Positive (+) values will cause the pitch to rise as you play higher notes, and negative (-) values will cause the pitch to fall as you play higher notes.

With a value of 0, there will be no change in pitch, and the C4 pitch will sound regardless of the keyboard location you play.

The diagram shows how the Pitch Slope and pitch are related:



-1.0...+2.0 Pitch slope value.

#### **Pitch Bend Mode**

The Pitch Bend can work in different ways, depending on the selected option.

Normal Linear bending.

Fixed Scale When this parameter is turned on on an oscillator, Pitch Bend and Sub Scale have no effect on its tuning. The relevant parameters are greyed out and non-selectable. This is useful when assigning to the oscillator a noise (like the breath noise of a reed) with a fixed frequency, that must not change on different notes and different pitches.

Highest Pitch Bend only

On this oscillator, Pitch Bend is only activated on the highest note currently playing on the keyboard.

#### Lowest Pitch Bend only

On this oscillator, Pitch Bend is only activated on the lowest note currently playing on the keyboard.

#### **Ribbon to Pitch**

Pitch Bend range assigned to the Ribbon Controller message (CC#16). The Ribbon Controller message can be received from MIDI or contained in a Standard MIDI File.

-12...0...+12 Maximum bending, when touching the extreme left or right of the Ribbon Controller.

#### JS (+X)

This parameter specifies how the pitch will change when the joystick is moved all the way to the right. A setting of 12 produces 1 octave of change.

For example if you set this to +12 and move the joystick all the way to the right, the pitch will rise one octave above the original pitch.

-60...+12 Maximum pitch change in semitones.

#### JS (–X)

This parameter specifies how the pitch will change when the joystick is moved all the way to the left. A setting of 12 produces 1 octave of change.

For example, if you set this to -60 and move the joystick all the way to the left, the pitch will fall five octaves below the original pitch. This can be used to simulate the downward swoops that a guitarist produces using the tremolo arm.

-60...+12 Maximum pitch change in semitones.

#### **AMS (Alternate Modulation Source)**

This parameter selects the source that will modulate the pitch of the selected oscillator. See "AMS (Alternate Modulation Source) list" on page 233.

#### Intensity

This parameter specifies the depth and direction of the effect produced by "AMS". With a setting of 0, no modulation will be applied. With a setting of 12.00, the pitch will change up to one octave.

For example, if you set "AMS" to After Touch and apply pressure to the keyboard, the pitch will rise if this parameter is set to a positive (+) value, or fall if this parameter is set to a negative (-) value. The range is a maximum of one octave.

-12.00...+12.00

Parameter value.

### **Pitch EG**

The Pitch EG (Envelope Generator) is unique to all oscillators.

#### **Velocity Intensity**

This parameter specifies the depth and direction of the modulation that the pitch EG specified on "Pitch > Pitch EG" will apply to the pitch. With a setting of 12.00, the pitch will change a maximum of  $\pm 1$  octave. -12.00...+12.00

Parameter value.

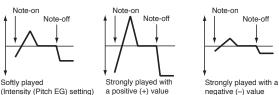
#### **Pitch EG AMS (Alternate Modulation Source)**

This parameter selects the source that will modulate the pitch EG of the selected oscillator. See "AMS (Alternate Modulation Source) list" on page 233).

#### **Pitch EG Intensity**

This parameter specifies the depth and direction of the effect that "AMS" will have. For example, if you set "AMS" to Velocity and set this value to +12.00, the velocity will control the range of pitch change produced by the pitch EG in a range of  $\pm 1$  octave. As you play more softly, the pitch change will draw closer to the pitch EG levels.

Pitch change (level)



**Note:** "Intensity" (Pitch EG) and AMS will be added to determine the depth and direction of the pitch modulation applied by the pitch EG.

### Portamento

#### Enabled

This parameter turns the portamento effect (smooth change in pitch from one note to the next) on/off, and specifies how it will be applied.

*Note:* Portamento will also be switched when CC#65 (Portamento SW) is received.

On Portamento will be applied.

Off Portamento will not be applied.

#### Fingered

This parameter specifies whether the portamento effect restarts or not with each note played.

On	Portamento will restart with each note.

Off Portamento will not restart with each note.

#### Time

This parameter sets the portamento time. Increasing the value will produce a slower change in pitch.

000...127 Portamento time in MIDI value.

### LFO 1/2

#### LFO1/2 Int

Intensity of the corresponding LFO.

-12...0...+12 Parameter value. Negative values invert the LFO shape.

#### JS+Y

Intensity of the corresponding LFO when the joystick is pushed forward.

-12...0...+12 Parameter value. Negative values invert the LFO shape.

#### AMS / Intensity

Alternate Modulation Source for the LFO. See "AMS (Alternate Modulation Source) list" on page 233. Use the "Intensity" parameter to set the intensity of the modulation.

# Pitch > Pitch EG

Here you can make settings for the pitch EG, which creates timevariant changes in the pitch of the oscillators. The depth of pitch change produced by these EG settings on the oscillators is adjusted by the "Intensity (AMS1/2 Intensity)" parameter (see page 220).

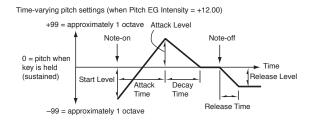
SOUND: Pitch MT: @	
L	
Start:0 Attack:0	Release: Ø
Attack:39 Decay:0	Release: 20
AMS1: V Off	Time Modulation
Intensity: 0 St: 0 At: 0	Intensity: 0 At: 0 Dc: 0 🔏
AMS2: 💌 Velocity	0
Intensity: 0 St: 0 At: 0	+
Pitch Pitch EG	

#### Diagram

The diagram on top of the page shows the Pitch envelope line.

#### Level

These parameters specify the amount of pitch change. The actual amount of pitch change will depend on the "Intensity (AMS1/2 Intensity)" parameter (see below). For example, with an "Intensity" setting of +12.00, a "Level" setting of +99 would raise the pitch one octave, and a "Level" setting of –99 would lower the pitch one octave.



#### Start Level

Specifies the amount of pitch change at note-on.

-99...+99 Parameter value.

#### Attack Level

Specifies the amount of pitch change when the attack time has elapsed.

-99...+99 Parameter value.

#### **Release Level**

Specifies the amount of pitch change when the release time has elapsed.

-99...+99 Parameter value.

#### Time

These parameters specify the time over which the pitch change will occur.

See diagram above.

#### Attack Time

Specifies the time over which the pitch will change from note-on until it reaches the pitch specified as the attack level.

0 99 Parameter value.

#### **Decay Time**

Specifies the time over which the pitch will change after reaching the attack level until it reaches the normal pitch.

0...99 Parameter value.

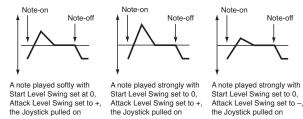
#### **Release Time**

Specifies the time over which the pitch will change from note-off until it reaches the pitch specified as the release level.

0...99 Parameter value.

#### Level Modulation

Pitch EG change (level) (AMS=JS-Y/Velocity, Intensity= positive (+) value



#### AMS1/2 (Alternate Modulation Source 1/2)

These parameters select the source that will control the pitch EG "Level" parameters ("AMS (Alternate Modulation Source) list" on page 233).

#### Intensity (AMS1/2 Intensity)

These parameters specify the depth and direction of the effect applied by "AMS1". With a setting of 0, the levels specified by "Level" will be used.

For example, if "AMS1" is Joystick Y+, moving the Joystick in the upper direction to turn it on will change the "Level" parameters of the Pitch EG. As the absolute value of "Intensity" is increased, the pitch EG levels will change more when the Joystick is released. The direction of the change is specified by "St (Start Level Swing)" and "At (Attack Level Swing)". When the Joystick is released, the pitch EG levels will return to their own settings.

If "AMS1" is set to Velocity, increasing the absolute value of "Intensity" will produce increasingly wider change in pitch EG levels for strongly-played notes. The direction of the change is specified by "St (Start Level Swing)" and "At (Attack Level Swing)". As you play more softly, the pitch change will draw closer to the pitch EG levels.

-99...+99 Parameter value.

#### St (Start Level Swing)

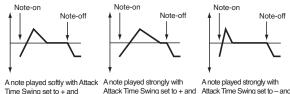
This parameter specifies the direction of change in "Start Level" caused by "AMS1/2". If "Intensity" is a positive (+) value, a setting of + will raise the EG level, and a setting of - will decrease it. With a setting of 0 there will be no change.

#### At (Attack Level Swing)

This parameter specifies the direction of change in "Attack Level" caused by "AMS1/2". If "Intensity" is a positive (+) value, a setting of + will raise the EG level, and a setting of - will decrease it. With a setting of 0 there will be no change.

### **Time Modulation**

Pitch EG changes (Time) (AMS = Velocity, Intensity = positive (+) value)



Time Swing set to + and Decay Time Swing set to + Decay Time Swing set to -

Attack Time Swing set to - and Decay Time Swing set to

#### AMS (Alternate Modulation Source)

This parameter selects the source that will control the "Time" parameters of the pitch EG (see "AMS (Alternate Modulation Source) list" on page 233).

#### Intensity (AMS Intensity)

This parameter specifies the depth and direction of the effect that "AMS" will have on the "Time" parameters. With a setting of 0, the pitch EG times will be just as specified by the "Time" settings.

The alternate modulation value at the moment that the EG reaches each point will determine the actual value of the EG time that comes next.

For example, the decay time will be determined by the alternate modulation value at the moment that the attack level is reached.

When this parameter is set to values of 16, 33, 49, 66, 82, or 99, the specified EG times will speed up as much as 2, 4, 8, 16, 32, or 64 times respectively (or slowed down to 1/2, 1/4, 1/8, 1/16, 1/32, or 1/64 of the original time).

For example if "AMS" is set to Velocity, increasing the absolute value of "Intensity" will allow strongly-played notes to increase the changes in pitch EG "Time" values. The direction of the change is specified by "At (Attack Time Swing)" and "Dc (Decay Time Swing)". As you play more softly, the pitch EG times will more closely approach the actual settings of the pitch EG.

-99...+99 Parameter value.

#### At (Attack Time Swing)

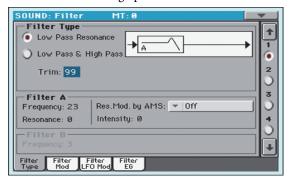
This parameter specifies the direction in which "AMS" will affect the "Attack Time" parameter. With positive (+) values of "Intensity", a setting of + will cause the time to be lengthened, and a setting of - will cause the time to be shortened. With a setting of 0 there will be no change.

#### Dc (Decay Time Swing)

Specify the direction in which "AMS" will affect the "Decay Time". With positive (+) values of "Intensity", a setting of + will cause the time to be lengthened, and a setting of - will cause the time to be shortened. With a setting of 0 there will be no change.

# Filter > Filter Type

Here you can make settings for the filters that will be used by the oscillators. You can select either a 24 dB/octave low pass filter with resonance, or a series connection of a 12 dB/octave low pass filter and a 12 dB/octave high pass filter.

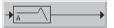


#### **Filter Type**

This parameter selects the type of filter (Low Pass Resonant, Low Pass & High Pass) for the selected oscillator.

Low Pass Resonance

When the Low Pass filter type is selected, only filter A will be activated.



Low Pass & High Pass

When the Low Pass & High Pass filter type is selected, the filter B will be activated.



#### Trim

Use this parameter to adjust the level at which the audio signal output from the selected oscillator is input to filter A.

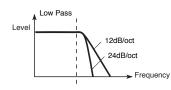
**Note:** If this value is raised, the sound may distort if Resonance is set to a high value or when you play a chord.

00...99 Trim level.

### **Filter A**

#### **Frequency (Cutoff Frequency A)**

This parameter specifies the cutoff frequency of filter A.



This is a filter that cuts the high-frequency region above the cutoff frequency. This is the most common type of filter, and is used to cut part of the overtone components, making an originally bright timbre sound more mellow (darker). When the "Filter Type" is Low Pass Resonance, the cutoff will have a steeper slope.

00...99 Cutoff frequency value.

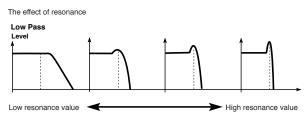
#### **Resonance (Resonance A)**

The resonance emphasizes the overtone components that lie in the region of the cutoff frequency specified by "Frequency", producing a more distinctive sound. Increasing this value will produce a stronger effect.

00...99 Resonance value.

#### Res. Mod. by AMS (Resonance modulated by AMS)

Selects the source that will control the "Resonance" level. See "AMS (Alternate Modulation Source) list" on page 233.



#### Intensity (AMS Intensity)

This parameter specifies the depth and direction of the effect that "Res. Mod. by AMS (Resonance modulated by AMS)" will have on the resonance level specified by "Resonance (Resonance A)".

For example if Velocity has been selected, changes in keyboard velocity will affect the resonance.

With positive (+) values, the resonance will increase as you play more strongly, and as you play more softly the resonance will approach the level specified by the "Resonance" setting.

With negative (-) values, the resonance will decrease as you play more strongly, and as you play more softly the resonance will approach the level specified by the "Resonance" setting.

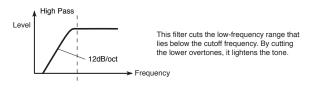
The resonance level is determined by adding the "Resonance" and "Intensity (AMS Intensity)" values.

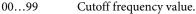
-99...+99 Parameter value.

### **Filter B**

#### Frequency (Cutoff Frequency B)

This parameter specifies the cutoff frequency of filter B. This parameter will be displayed when "Filter Type" is set to Low Pass & High Pass.





# Filter > Filter Mod

These settings let you apply modulation to the cutoff frequency ("Frequency") of the filter for the selected oscillator to modify the tone.

SOUND: Filter	MT: 0			T
Keyboard Track Key Low: B3 k	k Key High: B3	Intensit	y to A: +28	
Ramp Low: +48 F	Ramp High: −3	9   Intensit		
Filter EG Velocity to A:+50	Int to A:+26	AMS: 🔻 01	ĩ	2
Velocity to B:0	Int to B:0	Int to A:0		
-Filter A Modul				3
AMS1: 🔻 Off	AM I	152: 🔻 Off		
Intensity: 0	Int	ensity: 0		ĬĂ
Filter B Modul		152: 🔽 Cha	nnel AT	
Intensity: 0	Int			4
Filter Filter Filt Type Mod LFO				

When "Filter Type" is Low Pass Resonance, parameters for filter B will not be editable (greyed out).

# **Keyboard Tracking**

#### Key Low/High

These settings specify keyboard tracking for the cutoff frequency of the filter for the selected oscillator. The way in which the cutoff frequency is affected by the keyboard location you play can be specified by the "Key Low", "Key High", "Ramp Low" and "Ramp High" parameters.

Keyboard tracking will apply to the range below the specified Low note number, and above the specified High note number.

C–1...G9 Lowest/Highest note in the range.

#### Ramp Low/High

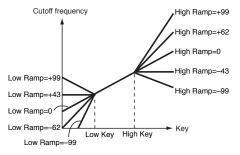
These parameter specifies the angle of keyboard tracking.

If "Intensity to A" and "Intensity to B" are set to +50, "Ramp Low" is set to -62 and "Ramp High" is set to +62, the angle of the change in cutoff frequency will correspond to the keyboard location (pitch). This means that the oscillation that occurs when you increase the "Resonance (Resonance A)" will correspond to the keyboard location.

If you set "Ramp Low" to +43 and "Ramp High" to -43, the cutoff frequency will not be affected by keyboard location. Use this setting when you do not want the cutoff frequency to change for each note.

-99...+99 Angle value.

Here is how cutoff frequency is affected by keyboard location and the Ramp setting ("Intensity to A" and "Intensity to B" = +50):



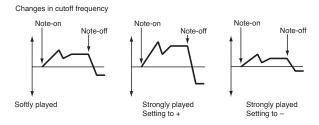
#### Tracking to A/B

These parameters specify the note numbers at which keyboard tracking will begin to apply, and set the "Intensity to A" and "Intensity to B" parameters to specify the depth and direction of the change applied to filters A and B.

For the range of notes between "Key Low" and "Key High", the cutoff frequency will change according to the keyboard location (pitch).

-99...+99 Parameter value.

### **Filter EG**



#### Velocity to A

This parameter specifies the depth and direction of the effect that velocity will have on the time-varying changes created by the filter EG (as set on "Filter > Filter EG") to control the filter A cutoff frequency.

With positive (+) values, playing more strongly will cause the filter EG to produce greater changes in cutoff frequency. With negative (-) values, playing more strongly will also cause the filter EG to produce greater changes in cutoff frequency, but with the polarity of the EG inverted.

99...+99 Value of the Velocity to A parameter.

#### Velocity to B

This parameter specifies the depth and direction of the effect that velocity will have on the time-varying changes created by the filter EG to control the filter B cutoff frequency (see "Velocity to A").

99...+99 Value of the Velocity to B parameter.

#### Int to A (Intensity to A)

Specifies the depth and direction of the effect that the time-varying changes created by the filter 1 EG will have on the filter A cutoff frequency.

With positive (+) settings, the sound will become brighter when the EG levels set by Filter EG "Level" and "Time" parameters are in the "+" area, and darker when they are in the "-" area.

With negative (-) settings, the sound will become darker when the EG levels set by Filter EG "Level" and "Time" parameters are in the "+" area, and brighter when they are in the "-" area.

-99...+99 Parameter value.

#### Int to B (Intensity to B)

Specifies the depth and direction of the effect that the time-varying changes created by the filter EG will have on the filter B cutoff frequency (see "Int to A (Intensity to A)").

-99...+99 Parameter value.

#### AMS (EG Alternate Modulation Source)

Selects the source that will control the depth and direction of the effect that the time-varying changes produced by the filter EG will have on the cutoff frequency of filters A and B. See "AMS (Alternate Modulation Source) list" on page 233.

#### Int to A (Intensity to A)

Specifies the depth and direction of the effect that "AMS" will have on filter A. For details on how this will apply, refer to "Int to A (Intensity to A)".

#### Int to B (Intensity to B)

Specifies the depth and direction of the effect that "AMS" will have on filter B. For details on how this will apply, refer to "Int to A (Intensity to A)".

*Note:* The sum of the settings for "Velocity to A/B", "Intensity to A/ B", and "(AMS) Intensity to A/B" will determine the depth and direction of the effect produced by the filter EG.

### **Filter A/B Modulation**

#### AMS1 (Alternate Modulation Source 1 for filter A/B)

Selects the source that will control modulation of the filter A cutoff frequency. See "AMS (Alternate Modulation Source) list" on page 233.

Note: The filter B parameters will be displayed when "Filter Type" on page 221 is Low Pass & High Pass.

#### Intensity (Intensity to AMS1)

Specifies the depth and direction of the effect that "AMS1" will have.

When "AMS1" is JS X, a positive (+) value for this parameter will cause the cutoff frequency to rise when the joystick is moved toward the right, and fall when the joystick is moved toward the left. With a negative (-) value for this parameter, the opposite will occur.

This value is added to the setting of the Filter A "Frequency".

#### AMS2 (Alternate Modulation Source 2 for filter A/B)

Selects the source that will control modulation of the filter A cutoff frequency (see "AMS (Alternate Modulation Source) list" on page 233).

#### Intensity (Intensity to AMS2)

Specifies the depth and direction of the effect that the selected source will have (see "Intensity (Intensity to AMS1)" on page 223).

# Filter > Filter LFO

Here you can use the filter LFO to apply cyclic modulation to the cutoff frequency of the filter (for the selected oscillator) to create cyclical changes in tone.

-LE0 1		
Intensity to A:	0	AMS: 💌 Off
Intensity to B:	0	Intensity to A: 0
JS-Y Intensity to A:	0	Intensity to B: 0
JS-Y Intensity to B:	0	2
_LF0 2		3
Intensity to A:	0	AMS: 👻 Off
Intensity to B:	0	Intensity to A: 0
JS-Y Intensity to A:	0	Intensity to B: 0
JS-Y Intensity to B:	0	, i i i i i i i i i i i i i i i i i i i
Filter Filter Filter Type Mod LFO M		

### **LFO 1**

#### Intensity to A

Specifies the depth and direction of the modulation that LFO1 (set on "LFO > LFO1") will have on the cutoff frequency of filter A. Negative (-) settings will invert the phase.

> Change in cutoff Low setting



-99...+99 Parameter value.

#### Intensity to B

Specify the depth and direction of the modulation that LFO1 will have on the cutoff frequency of filter B (see "Intensity to A").

-99...+99 Parameter value.

#### JS (Joystick) -Y Intensity to A

By moving the joystick in the Y direction (toward yourself), you can control the depth at which LFO1 modulates the cutoff frequency of filter A. This parameter specifies the depth and direction of the control.

Higher settings of this parameter will produce greater increases in the effect of LFO1 on the filter when the joystick is moved toward yourself.

-99...+99 Parameter value.

#### JS (Joystick) -Y Intensity to B

By moving the joystick in the Y direction (toward yourself), you can control the depth at which LFO1 modulates the cutoff frequency of filter B. This parameter specifies the depth and direction of the control (see "JS (Joystick) -Y Intensity to A").

#### AMS (Filter LFO1 Alternate Modulation Source)

Select a source that will control the depth and direction of cutoff frequency change for both filters A and B. See "AMS (Alternate Modulation Source) list".

#### Intensity to A

Specifies the depth and direction of the effect that "AMS" will have on filter A.

For example if "AMS" is Joystick Y+, higher settings of this parameter will allow greater change to be applied to LFO1 when you move the Joystick up in the Y axis.

-99...+99 Parameter value.

#### Intensity to B

Specifies the depth and direction of the effect that "AMS" will have on filter B (see "Intensity to A").

### LFO 2

Adjusts the depth of the cyclic modulation applied by LFO2 (set on "LFO > LFO2") to the cutoff frequency of filters A and B. For more information on the parameters see "LFO 1" above.

# Filter > Filter EG

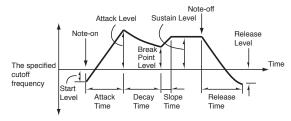
Here you can make settings for the EG that will produce timevarying changes in the cutoff frequency of filters A and B for the selected oscillator. The depth of the effect that these settings will have on the filter cutoff frequency is determined by the "Velocity" and "Intensity" parameters.

SOUND: Filter MT: 0	4
	<b>1</b>
	1
Level	$\bullet$
Time	2
Attack: 73 Decay: 98 Slope: 99 Release: 88	$\odot$
AMS T Off	3
	$\circ$
Intensity: +5	4
St: 0 At: 0 Br: + AMS2: - Off	$\odot$
Int:-22 At:+ Dc:+ S1:0 R1:0	₽
Filter Filter Filter Type Mod LFO Mod EG	

#### Diagram

The diagram on top of the page shows the Filter envelope line.

### **Filter envelope**



### Level

These are the envelope segment levels. The result will depend on the filter that was selected in "Filter Type". For example, with the Low Pass Resonance filter, positive (+) values of EG Intensity will cause the tone to be brightened by positive (+) levels, and darkened by negative (-) levels.

#### Start

This parameter specifies the change in cutoff frequency at the time of note-on.

-99...+99 Level value.

#### Attack

This parameter specifies the change in cutoff frequency after the attack time has elapsed.

-99...+99 Level value.

#### **Break (Break Point)**

This parameter specifies the change in cutoff frequency after the decay time has elapsed.

-99...+99 Level value.

#### Sustain

This parameter specifies the change in cutoff frequency that will be maintained from after the slope time has elapsed until noteoff occurs.

-99...+99 Level value.

#### Release

This parameter specifies the change in cutoff frequency that will occur when the release time has elapsed.

-99...+99 Level value.

#### Time

These parameters specify the time over which the filter change will occur.

#### Attack

This parameter specifies the time over which the level will change from note-on until the attack level is reached.

0...99 Time value.

#### Decay

This parameter specifies the time over which the level will change from the attack level to the break point level.

0...99 Time value.

#### Slope

This parameter specifies the time over which the level will change after the decay time has elapsed until the sustain level is reached.

0...99 Time value.

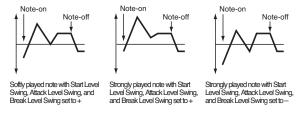
#### Release

This parameter specifies the time over which the level will change after note-on occurs until the release level is reached.

0...99 Time value.

# **Level Modulation**

Filter 1 EG changes (level) (AMS = Velocity, Intensity = a positive (+) value)



#### **AMS (Alternate Modulation Source)**

This parameter selects the source that will control the "Level" parameters of the filter EG ("AMS (Alternate Modulation Source) list" on page 233).

#### Intensity (AMS Intensity)

This parameter specifies the depth and direction of the effect applied by "AMS". With a setting of 0, the levels specified by "Frequency (Cutoff Frequency A)" will be used.

For example, if "AMS" is Velocity, and you set "St (Start Level Swing)", "At (Attack Level Swing)" and "Br (Break Level Swing)" to + and set "Intensity" to a positive (+) value, the EG levels will rise as you play more strongly. If "Intensity" is set to a negative (-) values, the EG levels will fall as you play more strongly.

-99...+99 Intensity value.

#### St (Start Level Swing)

This parameter specifies the direction in which "AMS" will affect "Start". When "Intensity" has a positive (+) value, a setting of + for this parameter will allow "AMS" to raise the EG level, and a setting of – will allow "AMS" to lower the EG level. With a setting of 0 there will be no change.

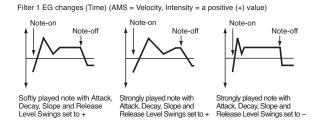
#### At (Attack Level Swing)

This parameter specifies the direction in which "AMS" will affect "Attack". When "Intensity" has a positive (+) value, a setting of + for this parameter will allow "AMS" to raise the EG level, and a setting of – will allow "AMS" to lower the EG level. With a setting of 0 there will be no change.

#### Br (Break Level Swing)

This parameter specifies the direction in which "AMS" will affect "Break (Break Point)". When "Intensity" has a positive (+) value, a setting of + for this parameter will allow "AMS" to raise the EG level, and a setting of – will allow "AMS" to lower the EG level. With a setting of 0 there will be no change.

### **Time Modulation**



#### AMS1/2

Use this parameter to select the source that will control the "Time" parameters of the filter EG. See "AMS (Alternate Modulation Source) list" on page 233.

#### Int (AMS Intensity)

This parameter specifies the depth and direction of the effect that "AMS1/2" will have.

For example, if "AMS1/2" is set to FltKTr +/+, the EG "Time" parameters will be controlled by the Keyboard Tracking settings. With positive (+) values of this parameter, positive (+) values of "Ramp Low/High" will lengthen the EG times, and negative (-) values of "Ramp Low/High" will shorten the EG times. The direction of change is specified by "At (Attack Time Swing)", "Dc (Decay Time Swing)", "Sl (Slope Time Swing)", and "Rl (Release Time Swing)".

With a setting of 0, the times specified by "Frequency (Cutoff Frequency A)" will be used.

If "AMS1/2" is set to Velocity, positive (+) values of this parameter will cause EG times to lengthen as you play more strongly, and negative (-) values will cause EG times to shorten as you play more strongly.

-99...+99 Intensity value.

#### At (Attack Time Swing)

This parameter specifies the direction in which "AMS1/2" will affect the attack time. With positive (+) values of "Intensity", setting this parameter to + will allow AMS to lengthen the time, and setting this parameter to – will allow AMS to shorten the time. With a setting of 0 there will be no change.

#### Dc (Decay Time Swing)

This parameter specifies the direction in which "AMS1/2" will affect the decay time. With positive (+) values of "Intensity", setting this parameter to + will allow AMS to lengthen the time, and setting this parameter to – will allow AMS to shorten the time. With a setting of 0 there will be no change.

#### SI (Slope Time Swing)

This parameter specifies the direction in which "AMS1/2" will affect the slope time. With positive (+) values of "Intensity", setting this parameter to + will allow AMS to lengthen the time, and setting this parameter to – will allow AMS to shorten the time. With a setting of 0 there will be no change.

#### **RI (Release Time Swing)**

This parameter specifies the direction in which "AMS1/2" will affect the release time. With positive (+) values of "Intensity", setting this parameter to + will allow AMS to lengthen the time,

and setting this parameter to – will allow AMS to shorten the time. With a setting of 0 there will be no change.

# Amp > Amp Level/Pan

These parameters control the volume and pan of the selected oscillator.

SOUND: Amp Amp Level	MT: 0	
Amp Level: 102 Pan Pan: L-63	AMS: V Off	
	Intensity: +13	2
		0 4
Amp Amp Am Lvi/Pan Mod Ei	ip G	

#### **Amp Level**

Volume of the selected oscillator.

**Note:** The volume of a Sound can be controlled by CC#7 (volume) and #11 (expression). The resulting level is determined by multiplying the values of CC#7 and #11. The Global MIDI channel is used for control.

0...127 Volume level.

#### Pan

Pan (stereo position) of the selected oscillator.

- **DRUM** This parameter is not available when editing a Drum Kit. Use the individual Pan control for each key (see "Pan" on page 217).
- Random The sound will be heard from a different location at each note-on.
- L001 Places the sound at far left.
- C064 Places the sound in the center.
- R127 Places the sound to far right.

**Note:** This can be controlled by CC#10 (panpot). A CC#10 value of 0 or 1 will place the sound at the far left, a value of 64 will place the sound at the location specified by the "Pan" setting for each oscillator, and a value of 127 will place the sound at the far right. This is controlled on the global MIDI channel.

### **Pan modulation**

#### **AMS (Alternate Modulation Source)**

Selects the source that will modify pan – see "AMS (Alternate Modulation Source) list" on page 233. This change will be relative to the "Pan" setting.

#### Intensity

Specifies the depth of the effect produced by "AMS". For example, if "Pan" is set to C064 and "AMS" is Note Number, positive (+) values of this parameter will cause the sound to move toward the right as the note numbers increase beyond the C4 note (i.e.,

as you play higher), and toward the left as the note numbers decrease (i.e., as you play lower). Negative (-) values of this parameter will have the opposite effect.

-99...+99 Parameter value.

# Amp > Amp Mod

These settings allow you to apply modulation to amp (for each oscillator) to modulate the volume.

SOUND: Amp M	T: 0
Keyboard Track Key Low: F4 Key	y High: C5
Ramp Low: +10 Rai	mp High: 0
- Amp Modulation	
Velocity Intensity: +80	AMS: 🔻 Off 🛛 🛛 2
	Intensity: Ø
_LF0 1/2	3
LF01 Intensity: 0	AMS: 🔻 Off
	Intensity: 0 4
LF02 Intensity: 0	AMS: - Off
	Intensity: 0
Suc. Suc. Suc.	
Amp Amp Amp Lvl/Pan Mod EG	

# **Keyboard Tracking**

These parameters let you use keyboard tracking to adjust the volume of the selected oscillator. Use the "Key" and "Ramp" parameters to specify how the volume will be affected by the keyboard location that you play.

#### Key Low/High

These settings specify the note number at which keyboard tracking will begin to apply. The volume will not change between "Key Low" and "Key High".

Keyboard tracking will apply to the range below the specified Low note number, and above the specified High note number.

C–1...G9 Lowest/Highest note in the range.

#### Ramp Low/High

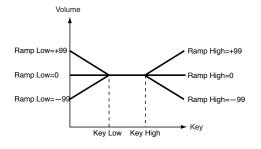
These parameters specify the angle of keyboard tracking.

With positive (+) values of the "Ramp Low" parameter, the volume will increase as you play notes below the "Key Low" note number. With negative (-) values, the volume will decrease.

With positive (+) values of the "Ramp High" parameter, the volume will increase as you play notes above the "Key High" note number. With negative (-) values, the volume will decrease.

```
-99...+99 Angle value.
```

Here is an example of volume changes produced by keyboard location and "Ramp" settings:

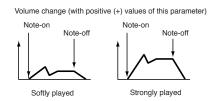


# **Amp Modulation**

These parameters specify how the volume of the selected oscillator will be affected by velocity.

#### **Velocity Intensity**

With positive (+) values, the volume will increase as you play more strongly. With negative (-) values, the volume will decrease as you play more strongly.



-99...+99 Intensity value.

#### **AMS (Alternate Modulation Source)**

Selects the source that will control the volume of the amp for the selected oscillator (See "AMS (Alternate Modulation Source) list" on page 233). "Velocity" cannot be selected.

#### Intensity

This parameter specifies the depth and direction of the effect that "AMS" will have. The actual volume will be determined by multiplying the value of the changes produced by the amp EG with the values of Alternate Modulation etc., and if the levels of the amp EG are low, the modulation applied by Alternate Modulation will also be less.

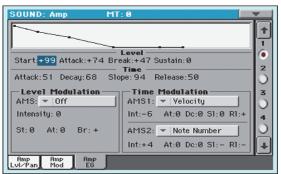
For example, if "AMS" is set to Joystick Y+, positive (+) values of this parameter will cause the volume to increase when you move the Joystick up in the Y axis. However if the EG settings etc. have already raised the volume to its maximum level, the volume cannot be increased further.

With negative (-) values of this parameter, the volume will decrease when pressure is applied to the keyboard.

-99...+99 Intensity value.

# Amp > Amp EG

These parameters let you create time-varying changes in the volume of the selected oscillator.

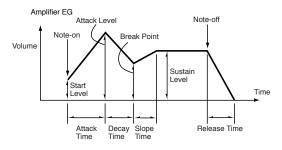


### Diagram

The diagram on top of the page shows the Amplitude envelope line.

### Level

These parameters are the level of the envelope segment.



#### Start

This parameter specifies the volume level at note-on. If you want the note to begin at a loud level, set this to a high value.

0...99 Level value.

#### Attack

This parameter specifies the volume level that will be reached after the attack time has elapsed.

0...99 Level value.

#### Break

This parameter specifies the volume level that will be reached after the decay time has elapsed.

0...99 Level value.

#### Sustain

This parameter specifies the volume level that will be maintained from after the slope time has elapsed until note-off occurs.

0...99 Level value.

### Time

These parameters specify the time over which the volume change will occur.

#### Attack

This parameter specifies the time over which the volume will change after note-on until it reaches the attack level. If the start level is 0, this will be the rise time of the sound.

0...99 Time value.

#### Decay

This parameter specifies the time over which the volume will change from when it reaches the attack level until it reaches the break point level.

0...99 Time value.

#### Slope

This parameter specifies the time over which the volume will change from when it reaches the break point level until it reaches the sustain level.

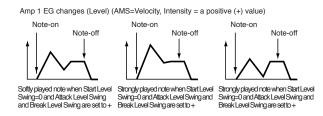
0...99 Time value.

#### Release

This parameter specifies the time over which the volume will change after note-off until it reaches 0.

0...99 Time value.

### **Level Modulation**



#### AMS (Alternate Modulation Source)

This parameter specifies the source that will control the "Level" parameters of the amp EG. See "AMS (Alternate Modulation Source) list" on page 233.

#### Intensity

This parameter specifies the depth and direction of the effect that "AMS" will have. For example, if "AMS" is Velocity, setting "St (Start Level Swing)", "At (Attack Level Swing)" and "Br (Break Point Level Swing)" to + and setting "Intensity" to a positive (+) value will cause the amp EG volume levels to increase as you play more strongly. Setting "Intensity" to a negative (–) values will cause the amp EG volume levels to decrease as you play more strongly. With a setting of 0, the levels will be as specified on "Amp > Amp EG".

-99...+99 Intensity value.

#### St (Start Level Swing)

This parameter specifies the direction in which "AMS" will change "Start". If "Intensity" is set to a positive (+) value, setting this parameter to + will allow AMS to increase the EG level, and setting this parameter to - will allow AMS to decrease the EG level. With a setting of 0, no change will occur.

#### At (Attack Level Swing)

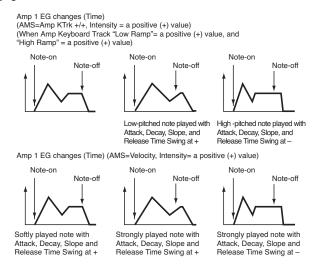
This parameter specifies the direction in which "AMS" will change "Attack". If "Intensity" is set to a positive (+) value, setting this parameter to + will allow AMS to increase the EG level, and setting this parameter to – will allow AMS to decrease the EG level. With a setting of 0, no change will occur.

#### Br (Break Point Level Swing)

This parameter specifies the direction in which "AMS" will change "Break". If "Intensity" is set to a positive (+) value, setting this parameter to + will allow AMS to increase the EG level, and setting this parameter to - will allow AMS to decrease the EG level. With a setting of 0, no change will occur.

### **Time Modulation**

These parameters let you use an alternate modulation source to modify the amp EG times that were specified in "Time" on page 227.



#### AMS1 (Alternate Modulation Source 1 - Time)

This parameter specifies the source that will control the "Time" parameters of the amp EG (see "AMS (Alternate Modulation Source) list" on page 233). With a setting of Off, there will be no modulation.

#### Intensity

This parameter specifies the depth and direction of the effect that "AMS1" will have. For example, if "AMS1(T)" is Amp KTrk +/+, the (Amp) Keyboard Track settings (see "Keyboard Tracking" on page 226) will control the EG "Time" parameters. With positive (+) values of this parameter, positive (+) values of "Ramp (Ramp Setting) will cause EG times to be lengthened, and negative (-) values of "Ramp (Ramp Setting)" will cause EG times to be shortened. The direction of the change is specified by "At (Attack Time Swing)", "Dc (Decay Time Swing)", "Sl (Slope Time Swing)", and "Rl (Release Time)".

When "AMS1(T)" is Velocity, positive (+) values will cause EG times to lengthen as you play more strongly, and negative (-) values will cause EG times to shorten as you play more strongly. With a setting of 0, the EG times will be as specified by the "Level" parameters (see page 227).

#### At (Attack Time Swing)

This parameter specifies the direction of the effect that "AMS1" will have on "Attack". With positive (+) values of "Intensity", setting this parameter to + will allow AMS1 to lengthen the time, and setting it to – will allow AMS1 to shorten the time. With a setting of 0 there will be no effect.

#### Dc (Decay Time Swing)

This parameter specifies the direction of the effect that "AMS1" will have on "Decay". With positive (+) values of "Intensity", setting this parameter to + will allow AMS1 to lengthen the time, and setting it to – will allow AMS1 to shorten the time. With a setting of 0 there will be no effect.

#### SI (Slope Time Swing)

This parameter specifies the direction of the effect that "AMS1" will have on "Slope". With positive (+) values of "Intensity", setting this parameter to + will allow AMS1 to lengthen the time, and setting it to – will allow AMS1 to shorten the time. With a setting of 0 there will be no effect.

#### RI (Release Time)

This parameter specifies the direction of the effect that "AMS1" will have on "Release". With positive (+) values of "Intensity", setting this parameter to + will allow AMS1 to lengthen the time, and setting it to – will allow AMS1 to shorten the time. With a setting of 0 there will be no effect.

#### AMS2 (Alternate Modulation Source 2)

This is another alternate modulation source for the Amp EG. See above "AMS1" parameters.

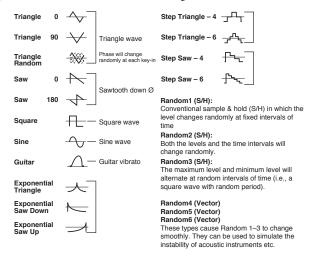
# LFO > LFO1

In this and the next page you can make settings for the LFO that can be used to cyclically modulate the Pitch, Filter, and Amp of each oscillator. There are two LFO units for each oscillator. By setting the LFO1 or LFO2 Intensity to a negative (–) value for Pitch, Filter, or Amp, you can invert the LFO waveform.

SOUND: LFO MT: 0			
LF01			
Waveform: 🔻 Triangle Ø			
Frequency: 65 Offset: 0			
📕 Key Sync. 🛛 Fade: 9	Delay: 0 2		
Frequency Modulation			
AMS1: V Off	AMS2: 🔻 Off 3		
Intensity: 0	Intensity: Ø		
Frequency MIDI /Temp	o Sync. 4		
MIDI/Tempo Sync.	Base Note: 🔽 🕽		
	Times: 1		
LFO 1 LFO 2			

#### Waveform

This parameter selects the LFO waveform. The numbers that appear at the right of some of the LFO waveforms indicate the phase at which the waveform will begin.



#### Frequency

Set the LFO frequency. A setting of 99 is the fastest.

00...99 Frequency rate.

#### Offset

This parameter specifies the central value of the LFO waveform. For example, with a setting of 0 as shown in the following diagram, the vibrato that is applied will be centered on the note-on pitch. With a setting of +99, the vibrato will only raise the pitch above the note-on pitch, in the way in which vibrato is applied on a guitar.

When "Waveform" is set to Guitar, the modulation will occur only in the positive (+) direction even if you set "Offset" to 0.

Here are offset settings and pitch change produced by vibrato:



-99...+99 Offset value.

#### Key Sync

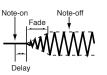
This parameter specifies if the LFO is synchronized to key strokes.

- On The LFO will start each time you play a note, and an independent LFO will operate for each note.
- Off The LFO effect that was started by the firstplayed note will continue to be applied to each newly-played note. (In this case, Delay and Fade will be applied only to the LFO when it is first started).

#### Fade

This parameter specifies the time from when the LFO begins to apply until it reaches the maximum amplitude. When "Key Sync." is Off, the fade will apply only when the LFO is first started.

Here is how "Fade" affects the LFO (when "Key Sync" is On):



00...99 Fade rate.

#### Delay

This parameter specifies the time from note-on until the LFO effect begins to apply. When "Key Sync" is Off, the delay will apply only when the LFO is first started.

0...99 Delay time.

#### **Frequency Modulation**

You can use two alternate modulation sources to adjust the speed of the LFO1 for the selected oscillator.

#### AMS1 (Alternate Modulation Source1)

Selects the source that will adjust the frequency of the selected oscillator LFO1 (see "AMS (Alternate Modulation Source) list" on page 233). LFO1 can be modulated by LFO2.

#### Intensity (AMS1 Intensity)

This parameter specifies the depth and direction of the effect that "AMS1(F)" will have. When this parameter is set to a value of 16, 33, 49, 66, 82, or 99, the LFO frequency being can be increased by a maximum of 2, 4, 8, 16, 32, or 64 times respectively (or decreased by 1/2, 1/4, 1/8, 1/16, 1/32, or 1/64 respectively).

For example, if "AMS1(F)" is Note Number, positive (+) values of this parameter will cause the oscillator LFO to speed up as you play higher notes. Negative (-) values will cause the oscillator LFO to slow down as you play higher notes. This change will be centered on the C4 note.

If "AMS1(F)" is set to JS +Y, raising the value of this parameter will cause the oscillator LFO1 speed to increase as the joystick is moved away from yourself. With a setting of +99, moving the joystick all the way away from yourself will increase the LFO speed by approximately 64 times.

-99...+99 Intensity value.

#### AMS2 (Alternate Modulation Source2) Intensity (AMS2 Intensity)

Make settings for a second alternate modulation source that will adjust the frequency of the oscillator LFO1 (see above "AMS1 (Alternate Modulation Source1)" and "Intensity (AMS1 Intensity)").

# Frequency MIDI/Tempo Sync

#### **MIDI/Tempo Sync**

This parameter enables/disables the LFO synchronization with Sequencer 1 Tempo.

On The LFO frequency will synchronize to the tempo (MIDI Clock) of Sequencer 1. In this case, the values you specified for "Frequency" (see page 229) and "Frequency Modulation" (see page 229) will be ignored.

#### **Base Note**

When "MIDI/Tempo Sync" is On, these parameters set a note length relative to "q (Tempo)" and the multiple ("Times") that will be applied to it. These parameters will determine the frequency of the LFO1. For example if "Base Note" is q (quarter note) and "Times" is 04, the LFO will perform one cycle every four beats.

Even if you change the "q (Tempo)" setting of Sequencer 1, the LFO will always perform one cycle every four beats.

**DRUM** This parameter is not available when editing a Drum Kit.

#### Times

**DRUM** This parameter is not available when editing a Drum Kit.

1...16 Beats before restarting the cycle.

# LFO > LFO2

Here you can make settings for the LFO2, which is the second LFO that can be applied to the selected oscillator. See "LFO > LFO1" for more information on the parameters value.

However in "Frequency Modulation", the LFO cannot be selected as a modulation source in "AMS1" or "AMS2."

# Effects > "B" FX Config

This page allows you to select the effects for the Sound (B Group). The effect types and the FX matrix are the same seen for the Style Play mode (see "Effects > A/B FX Configuration" on page 123 of the User's Manual).

SOUND: Effec	ts MT:0	
B		L ZR
Send: 30 🗩	MASTER FX1 On	
	▼ 72: Reverb SmoothHall	
	₩ZD: 11:89	
L	MFX2 to M	1FX1: 0
Send: 0	MASTER FX2 On	
	💌 26: Stereo Chorus	
	₩ZD: 50:50	
Dry		
📕 🔲 On		
FX "B" Master1	Master2	
FX "B" Master1 Config. Reverb	Chorus	

#### FX Name

Use this pop-up menu to choose one of the available effects. For a list of the available effects, see "Effects" on page 364.

#### **FX parameters**

All other parameters in this page are the same seen for the Style Play mode (see "Effects > A/B FX Configuration" on page 123 in the User's Manual).

#### Send to Master

Use these parameters to set the level of the Sound signal going from the Insert FX to the Master FXs.

0...127 Level of the sent signal.

#### Dry

Use this checkbox to mix the dry, direct Sound signal to the effects.

Note Note value.

# Effects > Master 1 / Reverb

In this page you can edit the effect assigned to the Master FX 1 effect processor (usually Reverb). See "Effects" on page 364 for more information.

# Effects > Master 2 / Chorus

In this page you can edit the effect assigned to the Master FX 2 effect processor (usually Chorus). See "Effects" on page 364 for more information.

# Page menu

Touch the page menu icon to open the menu. Touch a command to select it. Touch anywhere in the display to close the menu without selecting a command.

<b>_</b>
Write Sound
Solo Oscillator
Swap LF0
Copy Oscillator
Copy DrumKit
Copy FX
Paste FX
Init. Sound
Compare

### Write Sound

Select this command to open the Write Sound dialog box, and save all editing parameters to a Sound.

See "Write Sound dialog box" on page 232 for more information.

#### Solo Oscillator

Select this command to solo the selected oscillator, and mute the other oscillators. Select it again to unmute the other oscillators.

When this function is activated, the "Solo OSC [n]" indicator (n = oscillator number) blinks on the page header. While in this situation, you can select a different oscillator to be soloed.

#### Swap LFO

Select this command to replace LFO1 with LFO2, and vice-versa.

#### **Copy Oscillator**

Select this command to copy all settings between oscillators. See "Copy Oscillator dialog box" on page 232 for more information.

#### Copy/Paste FX

Use this command to copy a single effect, or both effects of an FX group (A or B). See "Copy/Paste FX" on page 131 for detailed instructions.

#### **Copy Drum Kit**

Select this command to copy the Drum Kit from a different Drum Kit. See "Copy Drum Kit dialog box" on page 232 for more information.

#### Init Sound

Select this command to delete all parameters, and set them to a default value.

#### Compare

When this command is checked, original Sound parameter values are temporarily recalled, to compare them with edited parameters. You cannot edit the Sound while you are in Compare mode.

While this function is on, the Compare indicator blinks on the page header.

# Write Sound dialog box

Open this window by selecting the Write Sound item from the page menu. Here, you can save all Sound parameters to a Sound location in memory.

**Warning:** If you write over an existing Sound, the Sound will be deleted and replaced by the one you are saving ("overwrite"). Please save on a storage device any User Sound you don't want to lose.

**Note:** Drum Kits cannot be written over standard Sounds, nor vice versa.

**Note:** To save over a Factory Sound location, unckeck the "Factory Sound Protect" command in the Global > Mode Preferences > Media page (see page 260).

Warning: When replacing a Factory Sound, please be warned that all Performance, STSs, Styles and Songs making use of it will be modified as well. Use this feature with great care!

To restore the original data, please use the "Factory Restore" command in the Utility page of the Media mode (see page 297 for more information).

₩rite Sound		
Name:	T Grand Piano RX	
	To	
Sound Bank:	Usr-User 1	Select
Sound:	01 – <empty></empty>	
Cancel OK		

#### Name

Name of the Sound to be saved. Touch the **T** (Text Edit) button next to the name to open the Text Edit window.

#### Sound Bank

Target bank of Sounds. Use the VALUE controls to select a different bank.

#### Sound

Target Sound location in the selected bank. Use the VALUE controls to select a different location.

### Select...

Touch this button to open the Sound Select window, and select a target location.

# **Copy Oscillator dialog box**

Open this window by selecting the Copy Oscillator item from the page menu. Here, you can copy all settings between oscillators.

Copy Oscillator	
From Sound: Grand Piano RX	
From Oscillator: 1	
To Oscillator: 1	
Cancel OK	

#### **From Sound**

Touch this button to open the Sound Select window, and select the source Sound.

#### **From Oscillator**

Select the source oscillator to copy from.

#### **To Oscillator**

Target oscillator where to copy the source settings to.

# **Copy Drum Kit dialog box**

Open this window by selecting the Copy Drum Kit item from the page menu. Here, you can copy settings from a range of keys of a Drum Kit.



#### From Drum Kit

Touch this button to open the Sound Select window, and select the source Drum Kit.

#### From Key

Select the source range of keys to copy from.

#### To Key

Target key. Settings are copied starting from this key, and upwards.

# AMS (Alternate Modulation Source) list

Off	Do not use Alternate Modulation
Pitch EG	Pitch EG
Filter EG	Filter EG within the same oscillator
Amp EG	Amp EG within the same oscillator
LFO1	LFO1 within the same oscillator
LFO2	LFO2 within the same oscillator
Flt KTrk +/+ (Filter Keyboard Track +/+)	Filter keyboard tracking within the same oscillator
Flt KTrk +/- (Filter Keyboard Track +/)	Filter keyboard tracking within the same oscillator
Flt KTrk 0/+ (Filter Keyboard Track 0/+)	Filter keyboard tracking within the same oscillator
Flt KTrk +/0 (Filter Keyboard Track +/0)	Filter keyboard tracking within the same oscillator
Amp KTrk +/+ (Amp Keyboard Track +/+)	Amp keyboard tracking within the same oscillator
Amp KTrk +/ (Amp Keyboard Track +/)	Amp keyboard tracking within the same oscillator
Amp KTrk 0/+ (Amp Keyboard Track 0/+)	Amp keyboard tracking within the same oscillator
Amp KTrk +/0 (Amp Keyboard Track +/0)	Amp keyboard tracking within the same oscillator
Note Number	Note number
Velocity	Velocity
Poly AT (Poly After Touch)	Polyphonic After Touch (received/transmitted via MIDI or contained in Standard MIDI Files)
Channel AT (Channel After Touch)	After Touch (Channel After Touch) (received/transmitted via MIDI or contained in Standard MIDI Files)
Joystick X	Joystick X (horizontal) axis
Joystick +Y	Joystick +Y (vertical upward) direction (CC#01)
Joystick Y	Joystick Y (vertical downward) direction (CC#02)
JS+Y & AT/2 (Joy Stick +Y & After Touch/2)	Joystick +Y (vertical upward) direction and After Touch (received/transmitted via MIDI or contained in Stan- dard MIDI Files)
JS-Y & AT/2 (Joy Stick Y & After Touch/2)	Joystick Y (vertical downward) direction and After Touch (received/transmitted via MIDI or contained in Standard MIDI Files)
Assign. Pedal	Assignable foot pedal (CC#04)
Ribbon Ctl.	Ribbon controller (CC#16) (received/transmitted via MIDI or contained in Standard MIDI Files)
CC#18	CC#18
CC#17	CC#17
CC#19	CC#19
CC#20	CC#20
CC#21	CC#21
Damper	Damper pedal (CC#64)
CC#65	Portamento switch (CC#65)
Sostenuto	Sostenuto pedal (CC#66)
CC#80	CC#80
CC#81	CC#81
CC#82	CC#82
CC#83	CC#83
Тетро	Tempo (tempo data from Sequencer 1 clock or external MIDI clock)
Velocity Plus	Key On and Key Off Velocity are used
Velocity Exp	Velocity with Exponential curve (higher velocity notes are even louder)
Velocity Log	Velocity with Logarithmic curve (higher velocity notes are weaker than with the linear Velocity)

Flt KTrk +/+ (Filter Keyboard Track +/+)

Flt KTrk +/- (Filter Keyboard Track +/-)

Flt KTrk 0/+ (Filter Keyboard Track 0/+)

Flt KTrk +/0 (Filter Keyboard Track +/0)

Amp KTrk +/+ (Amp Keyboard Track +/+)

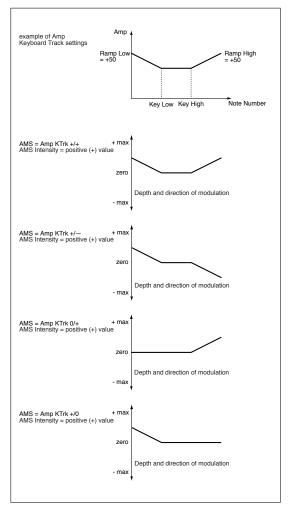
Amp KTrk +/- (Amp Keyboard Track +/-)

### Amp KTrk 0/+ (Amp Keyboard Track 0/+)

#### Amp KTrk +/0 (Amp Keyboard Track +/0)

+/+ The direction of the effect will be determined by the sign (positive or negative) of the "Ramp Low" or "Ramp High" setting.
+/- The direction of the effect will be determined by the sign of the "Ramp Low" setting, and by the opposite sign of the "Ramp High" setting (50 for a setting of +50, and +50 for a setting of 50).

- 0/+ "Ramp Low" will have no AMS effect. The sign of the "Ramp High" setting will determine the direction of its effect.
- +/0 The sign of the "Ramp Low" setting will determine the direction of its effect. "Ramp High" will have no AMS effect.



#### JS +Y & AT/2 (Joy Stick +Y & After Touch/2)

The effect will be controlled by the joystick +Y (vertically upward) and by after touch. In this case, the effect of after touch will be only half of the specified intensity.

### JS Y & AT/2 (Joy Stick –Y & After Touch/2)

The effect will be controlled by the joystick Y (vertically downward) and by after touch. In this case, the effect of after touch will be only half of the specified intensity.

# Sampling

Pa3XLe includes a full-featured sampler, that allows you to create new Samples, new Multisamples and new synced Audio Grooves. In addition, you can load Samples, Multisamples, Sounds and banks of Sounds from various formats.

Sampling allows you to create new sounds, by recording from an external source (e.g., a microphone or a CD player) connected to Pa3XLe's Audio Inputs, or by loading files from a storage device. Pa3XLe can read common file formats, like WAV, AIFF and SF2 files, and load data from Korg Trinity and Triton files.

To be used, Samples must be assigned to a Multisample or a Drum Kit. A Multisample allows you to arrange samples into separate zones of the keyboard. Drum Kits allows you to assign a different sample to each note of the keyboard, with up to six dynamic layers per note.

Multisamples can then be assigned to Sounds. Sounds created with this function can be used as any ordinary Sound, and assigned to any track.

Another powerful feature of the Sampling mode is the Time Slice, that lets you add realism to MIDI tracks by creating Audio Grooves.

**Warning:** When loading a ".SET" folder containing User PCM Samples, all existing User PCM Samples are deleted from memory. Save them before loading the folder, by selecting the "PCM" option during a Save All operation (see "Saving the memory content" on page 291 of the User's Manual).

*To see if a ".SET" folder contains User PCM Samples, open it and look for a "PCM" folder.* 

**Hint:** If you want to load new User PCM Samples without deleting the ones already contained in memory, load single Sounds instead of a ".SET" folder.

# **Entering and exiting the Sampling mode**

• While in Sound mode, press the RECORD button to enter in Sampling mode.

• While in Sampling mode, press the RECORD button to exit the Sampling mode, and return to the Sound mode.

# The Record (Sampling) procedure

Here is a short overview of a typical sampling procedure.

# **Preparing to record**

First of all, you will set the recording levels for sampling.

1. With the MASTER VOLUME control set to zero, connect the source to be sampled (e.g., a microphone or a CD player) to the relevant Audio Input(s) on the rear of the Pa3XLe. When the source has been connected, raise the MASTER VOLUME control to a position other than zero.

- Go to the "Audio & Video > Audio In" page of the Global mode to set the signal routing for the input source.
- **3.** Press the SOUND button to access the Sound mode, then press RECORD and touch the Record tab to access the Record page.
- **4.** Choose the input source, by using the "Record Mode" parameter.
- 5. Adjust the source's volume. If you are recording with a microphone, use the MIC GAIN knob of the Pa3XLe. If you are sampling from a line source (like a CD player or another instrument), set the source's own output level. If possible, set the output level of the source to be sampled to the maximum.

Watch at the meters in the display to check the input level. Red means distortion (signal clipping), so ideally, the LED bar should never go to red.

Also, check the microphone level with the AUDIO IN LED in the MIC SETTING section on the control panel. They should never go to red, and stay to orange (green means too low an input signal).

**6.** Use the "Record Mode" parameter to select the audio input to be sampled.

# Recording

Next, you'll record the source sound or audio groove.

1. If you can, first start the source to be recorded, then touch the Record button in the display to start recording.

As an alternative, touch the Record button in the display, and immediately start the source to be recorded.

2. Touch the Record button in the display again to stop recording. When the memory is full, the sampling automatically stops. A maximum of 21.8 seconds is allowed for each Sample.

**Note:** Stereo and Mono samples have the same sampling time. This apply only to the editor; memory needed for saving depends on the actual size of the sampled data.

- **3.** Select a page (tab) different from Record, and play the keyboard to listen to the sampled sound.
- 4. If you are not satisfied with the recorded sound, return to the Record page and touch the Record button in the display again, to repeat recording. Touch Record again to stop recording. A new Sample will be automatically created.
- **5.** When finished sampling your sound, you can save it and create a Sound or Drum Kit. If it is an Audio Groove, continue editing it with the Time Slice function.

# **Creating new Sounds from the Samples**

You can save the Samples, and create a Multisample and a Sound to use them.

1. After having recorded a new Sample, select the Write command from the page menu to save it. The Write Sample dialog box will appear (see "Write Sample dialog box" on page 249). Assign a name to the new Sample, and confirm saving.

*Note:* The PCM area can contain up to 192MB of Samples.

- **2.** After saving, you can repeat the recording procedure to create other Samples.
- **3.** When you have recorded and saved all the needed Samples, press the MENU button and go to the "MultiSample" section, to assign the Sample(s) to a Multisample. Assign each Sample to a different keyboard zone of the Multisample.
- 4. When finished editing the Multisample, select the Write command from the page menu. The Write Multisample dialog box will appear (see "Write MultiSample dialog box" on page 249). Assign a name to the new Multisample, and save it to the internal memory.
- **5.** Press RECORD to exit the Sampling mode and return to the Sound mode.
- **6.** Select an ordinary Sound similar to the one you want to create.
- Press MENU and go to the "Basic > OSC Basic" page (see page 210). Select one of the available layers, then select the RAM bank of Multisamples. Finally, select the new Multisample.
- **8.** Select the Write Sound command from the page menu, and save the Sound to an empty User location.
- **9.** If you want so, assign the new Sound to a track, then select the "Write Performance", "Write Current Style Settings" or "Write STS" command from the page menu, to save the Sound to a Performance, Style Settings or STS.

# **Creating new Drum Kits from the Samples**

You can save the Samples, and create a Drum Kit to use them.

1. After having recorded a new Sample, select the Write command from the page menu to save it. The Write Sample dialog box will appear (see "Write Sample dialog box" on page 249). Assign a name to the new Sample, and confirm saving.

*Note:* The PCM area can contain up to 192MB of Samples.

- 2. After saving, you can record other files to create additional Samples.
- **3.** When you have recorded and saved all the needed Samples, press RECORD to exit the Sampling mode and return to the Sound mode.
- 4. Select a Drum Kit similar to the one you want to create.
- 5. Press MENU and go to the "DrumKit > Sample Setup (Drum Kits)" page (see page 214). Select a key and a layer, then select the RAM bank of Samples. Finally, select the new Samples.
- **6.** Select the Write Sound command from the page menu, and save the Drum Kit to an empty User DK location.
- 7. If you want so, assign the new Drum Kit to a track, then select the "Write Performance", "Write Current Style Settings" or "Write STS" command from the page menu, to save the Drum Kit to a Performance, Style Settings or STS.

*Hint:* Drum Kits are better suited for the Drum or Percussion track. Assign them to the Style Settings.

# Creating new Sounds from an Audio Groove

# **Creating an Audio Groove**

After recording an Audio Groove, you must "slice" it to create a series of separate percussive Samples, a Multisample and a MIDI Groove.

- **1.** Go to the Time Slice page. After creating a series of slices, use the Extend function to refine your groove.
- 2. Select the Write command from the page menu, to save the sliced Samples, a Multisample, a Sound and the MIDI Groove. Choose one of the User Sound locations. The Sound, Multisample, MIDI Groove and sliced Samples are saved to the internal memory.
- **3.** Press RECORD to exit the Sampling mode and return to the Sound mode.

# Assigning an Audio Grooves to a Sound

You can use the new Multisample and sliced Samples generated from the Audio Groove in a new User Sound.

- 1. To access the new Multisample for use in a Sound, go to the Sound mode.
- 2. Select an ordinary Sound. Press MENU and go to the "Basic > OSC Basic" page (see page 210). Select one of the available layers, then select the RAM bank of Multisamples. Finally, select the new Multisample.
- **3.** Select the Write Sound command from the page menu, and save the Sound to an empty User location.

# Assigning the Audio Groove to Styles or Pads

Sounds based on the Audio Groove can be used in Styles or Pads.

- Assign the new Sound to a Style track (preferably, the Drum or Percussion track) or to a Pad track, then select the "Write Current Style Settings" or "Write Pad" command from the page menu, to save the Style Settings or the Pad.
- 2. Use the "Import > Import Groove" function in the Style/ Pad Record mode (see page 161) to import the generated MIDI Groove to the Style track you assigned the new Sound to. By playing this MIDI Groove with the new Sound, you'll be able to play the original audio groove on the keyboard.

**Warning:** Generated MIDI Grooves will be deleted when turning the instrument off. Import them to a Style or Pad track before turning the instrument off.

# **Edit menu**

From any page of the Sampling mode, press the MENU button to open the Sampling edit menu. This menu gives access to the various Sampling edit sections.

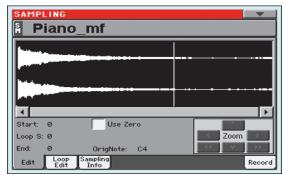
When in the menu, select an edit section, or press EXIT to exit the menu and return to the Sample Edit page. To return to this page, you can also select the Sample Edit menu item.

SAMPLING Menu	
	Sample Edit
Time Slice	Multi Sample

Each item in this menu corresponds to an edit section. Each edit section groups various edit pages, that may be selected by touching the corresponding tab on the lower part of the display.

# Sample Edit > Edit

This page allows you to cut, trim or normalize a sample, as well as edit the loop points. The sample can be played over the full keyboard.



# SM (Sample)

Selected sample.

# Waveform display

This is the graphical display of the selected sample waveform, i.e., the one you can hear when playing the keyboard. The area included between the Start and End points is highlighted (dark background).

### **Parameters**

#### Start (Sample Start)

This is the sample start point (in samples). You may edit this point, as well as the End point, to shorten the sample. Changing the Sample Start cuts out the attack portion of the sound.

**Note:** When moving the "Start" point forward, and reach the "Loop Start" point, this latter is also moved forward.

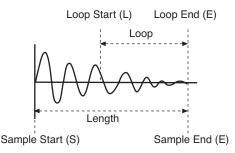
*Warning:* When saving the edited sample (Write Sample operation), the segments exceeding the Start and End points are permanently removed.

#### Loop Start

**Note:** This parameter has no effect, unless you don't turn the loop on. Use the "Loop On" parameter on the "Sample Edit > Loop Edit" page to turn the loop on (see page 239).

Use this parameter to adjust the Loop Start point. When you adjust this parameter, an audible click may appear, due to a pitch and/or level mismatch between the starting and ending points of the loop. Move the Loop Start and Loop/Sample End point, so that the click can no longer be heard.

When editing audio grooves, the Loop Start should match the Sample Start point. This parameter usually differs from the Sample Start in ordinary sounds (i.e., a guitar, a piano, a voice...).



### End (Sample/Loop End)

This is the sample and loop end point (in samples). You may edit this point, to shorten the sample.

**Warning:** When saving the edited sample (Write Sample operation), the segments exceeding the Start and End points are permanently removed.

#### Use Zero

If this parameter is turned on, when you move the Start, Loop Start and End points, the selection fall on the nearest zero-crossing point (i.e., points where the waveform crosses the x-axis, and goes from negative to positive, or from positive to negative values). This will make loops more accurate, and will reduce the risk of "clicks".

#### **OrigNote (Original Note)**

Original pitch of the sampled note. While this parameter has no effect on sound, it will be useful to identify the original pitch of the sample and when assigning a sample to the multisample.

For example, if you sample a C4, set this parameter to "C4". When the sample will be assigned to a keyboard zone of the multisample, it will be transposed (if needed) according to this parameter, to avoid a change of the original pitch.

### Zoom

Use these buttons to change the size of the waveform shown in the diagram. When a button is greyed-out, it means the maximum or minimum value has been reached.

$\square$	Increase the vertical size.
$\Box$	Decrease the vertical size.
	Increase the horizontal size.
$\overline{}$	Decrease the horizontal size.
$\supset$	Full zoom in.
	Full zoom out.

# Changing the sample length and finding good-sounding loop points

To adjust the sample length and loop points, check the "Loop On" parameter, then use the "Start", "Loop Start" and "End" parameters to create a fine sounding cycling loop.

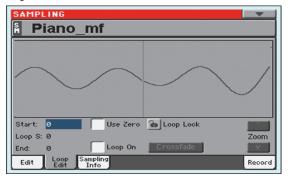
For example, you may have sampled an audio groove of an exceeding length. Use the "End" parameter to cut the exceeding portion at the end of the sample, and adjust the starting point of the loop using the "Start" or "Loop Start" parameters.

Usually, checking the "Use Zero" parameter is a big help, to avoid the loop clicks due to level mismatches.

# Sample Edit > Loop Edit

The loop is a cycling portion of a sampled sound. It is a technique used to reduce the sampling time, cycling a portion of the sound to create the sustain phase of the sound. After the attack stage, most sounds repeat the same waveform during their sustain stage. You may adjust the Loop Start point with the "Loop Start" parameter, and the Loop End point (always matching the Sample End point) using the "End" parameter.

This page lets you fine tune the loop points, by watching at the Loop End and Loop Start points matching at the center of the diagram. A good-sounding loop is shown as a continuous, nonbreaking line.



# SM (Sample)

Selected sample.

# Loop diagram

This diagram shows the "End" (Loop End) point on the left half, and the "Loop Start" point on the right half of the screen. Use the "End" and "Loop Start" parameters to adjust the loop.

### **Parameters**

#### Start

See "Start (Sample Start)" on page 238.

#### Loop Start

See "Loop Start" on page 238.

#### End

See "End (Sample/Loop End)" on page 238.

# Use Zero

See "Use Zero" on page 238.

### Loop Lock

This fixes the length of the loop being edited.

- Off The "Loop S." and "End" parameters can be edited separately.
- On When the "Loop S." or "End" parameter is edited, the other one will be automatically adjusted so that the distance between them (i.e., the loop length) does not change. This is convenient when you are creating a rhythm loop to match a specific tempo.

### Loop On

Use this parameter to turn the loop on or off.

On The loop is turned on, and the portion of sound included between the Loop Start and Loop End points will cycle until a key is kept pressed. If the "Loop Start" point matches the "Start" point, the whole sample is cycled.

When the loop is turned on, a vertical yellow line, showing the loop point, appears in the waveform display.

Off The loop is turned off. The sound will play from the Sample Start to the Sample End point only once, even if you keep a key pressed on the keyboard.

# Crossfade

When looping the pitched sample of a complex sound such as strings or woodwinds to make the sound sustain, it is necessary to create a long loop to preserve the rich character of the sound. Crossfade Loop can be used to minimize the difference in pitch and level between the beginning and ending of the loop region, to create a natural-sounding loop. In order to solve such problems, Crossfade Loop causes the sound to change gradually from the end to the beginning of the loop.

In practice, here is how it works. A specific length (the "Crossfade Length" value) of the waveform immediately before the beginning of the loop is taken and mixed with the end portion. At this time, the waveform level of the portion immediately before the end (the length specified by "Crossfade Length") will gradually decrease, and the waveform level immediately before the beginning of the loop will gradually increase as the two are mixed.

When the "Loop On" parameter is checked, and the "Start" and "Loop S." parameters have different values, the "Crossfde" button becomes available.

When you touch the Crossfade button, the Crossfade Loop dialog box appears:

Crossfade	Loop
Crossfade length: 500	50 %
Curve 💿 Linear	O Power
Cancel	OK

#### **Crossfade Length**

In "Crossfade Length," specify the length of the sample that you wish to crossfade. You can enter it either as the number of samples, or a percentage (%). If you set this as a percentage, the number of samples will be calculated automatically.

If you set this to 50%, crossfade will be performed on the second half of the region between loop start and loop end.

The "Crossfade Length" cannot be greater than the smaller length between the Sample Start – Loop Start points, or the Loop Start – Sample End points.

#### Curve

Set "Curve" to specify how the volume will change in the cross-faded region.

Linear The volume will change linearly.

Power The volume will change non-linearly. Sometimes a setting of Linear will produce the impression that the volume has dropped in the middle of the crossfade curve. In such cases, use Power.

# Sample Edit > Sampling Info

Use this page to see detailed info on the sample in edit. General information for the RAM memory is also available.

SAMPLING Sempty>	
Sampling Info Samples: 1 Drum Samples: 1 MultiSamples: 0	Available Memory RAM Bank: Mono Time: 34:57 m:s Bytes: 192.00 MB Largest block: 192.00 MB
Sample Info ——	]
Selected samples:	0
Samples:	0
Sampling Frequency:	48000
Edit Loop Sampling Edit Info	Record

# SM (Sample)

Selected sample.

# **Sampling Info**

#### Samples

Number of samples in memory.

#### **Drum Samples**

Number of drum samples in memory.

#### **Multisamples**

Number of multisamples in memory.

# **Available Memory**

#### **RAM Bank**

Pa3XLe comes with 192MB of Sample RAM. This is the maximum amount of Sample data that can be loaded or recorded.

#### Mono Time

Remaining sample memory (in seconds). This value is given for mono samples. With stereo samples, this time has to be halved.

#### Bytes

Remaining memory for sampling (in Bytes). This value is given for mono samples. With stereo samples, this time has to be halved.

# Sample Info

#### **Selected Samples**

Size of the selected sample (in samples).

#### Samples

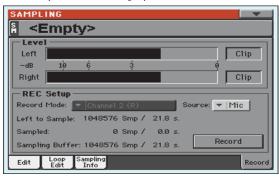
Total size of the samples in memory (in samples).

#### **Sampling Frequency**

Sampling frequency of the selected sample (in Hertz).

# Sample Edit > Record

This page allows you to record a 16-bit, 48kHz stereo or mono sample. While in this page, you will be able to monitor the input signal. The keyboard will not play.



Record page with the Mic source selected

SAMPLING
Empty>
Level
Left Clip
-dB 10 6 3 0
Right Clip
REC Setup Record Mode:   Channel 18/2 (Stereo) Source:  Line
Left to Sample: 1048576 Smp / 21.8 s.
Sampled: 0 Smp / 0.0 s.
Sampling Buffer: 1048576 Smp / 21.8 s. Record
Edit Loop Sampling Edit Info Record

Record page with the Line source selected

# SM (Sample)

Touch this area to open the Choose Sample window, and select one of the available samples to be loaded in the editor.



The window will be automatically closed after selecting.

### Level

Use these meters to see the level of the entering signal. When the CLIP indicator turns red, the signal is too hot. Lower it by reducing the source output level, or by using the MIC GAIN knob on the rear panel of the Pa3XLe.

## **REC Setup**

#### Source

Use this parameter to choose either a microphone or a line source as the input.

- Line You can connect a mono or stereo line source to the Left and/or Right audio inputs. Use the "Record Mode" mode parameter (see below) to choose one or both inputs.
- Mic You can connect a microphone to the Right Audio Input. Use the MIC GAIN knob to set the input level.

#### **Record Mode**

Use this parameter to choose between the mono or stereo sampling mode, by selecting one or both audio inputs (Left or Right) on the back of the Pa3XLe.

- Channel 1 (L) Only the Left Input is selected. A mono sample will be produced.
- Channel 2 (R) Only the Right Input is selected. A mono sample will be produced.
- Channel 1&2 (Stereo)

Both inputs will be selected. A stereo sample will be produced.

#### Left to Sample

*Non editable*. Remaining memory (in samples/seconds) for sampling. The maximum space available for samples is 1,048,576 (mono or stereo) samples, or 21.8 seconds.

#### Sampled

Non editable. Used memory (in samples/seconds) for sampling.

#### **Sampling Buffer**

*Non editable.* Available memory (in samples/seconds) for sample editing.

#### Record

Touch this button to start recording. Touch it again to stop recording. Recording will automatically stop when the maximum available space will end.

**Note:** Pa3XLe always samples at the maximum quality (16 bit, 48,000Hz). Samples of a different quality may be loaded (8 or 16 bit, 11,025Hz to 48,000Hz).

# **Time Slice**

The Time Slice function lets you transform a rhythm audio groove in a series of single percussive samples, to be assigned to the Drum or Percussion track of a Style or a Song.

SAMPLING		
1	++	
 Metronome info	ormation	
Meter: 4/4	Measures: 1	BPM: 120
Time Slice —		
Release: 4	Attacks: Ø	
Threshold: 10	Slices: 0	Slice
- Extend		
By:0 % M	lode: 🔻 Normal	Extend
L		

# How timeslice works

Analyzing and processing. This function detects the attacks (e.g., kick and snare) inside a rhythm audio groove (a sample that loops a drum pattern), and automatically divides the audio groove into individual percussive samples.

The divided percussive samples will be automatically assigned to different keys in a multisample, and the multisample to a Sound.

Within the generated multisample, a separate sample is assigned to a different note on the keyboard, starting from C#3. By playing an ascending chromatic scale with this multisample, you could recreate the original audio groove.

A MIDI Groove will also be created, containing a sequence of notes triggering the sliced percussive samples in the same order as in the original audio groove (i.e., it plays an ascending chromatic scale starting from C#3).

When you will import this MIDI Groove to the percussive track of a Style (see "Import > Import Groove" on page 161 of the User's Manual), this sequence will let you adjust the groove's tempo without affecting the pitch of the percussive samples.

In addition to changing the groove's tempo without affecting its pitch, this lets you do the following:

- change the order in which notes are played
- change the timing
- edit the pattern notes to freely recreate a new rhythm loop.

Saving. After the slicing, you can select the Write command from the page menu, to save the Sound based on sliced samples, and the MIDI Groove containing the corresponding MIDI sequence.

• The Sound will be saved to the selected location in the User area of the internal memory. You will be able to select it as an ordinary Sound, and assign it to the Drum or Percussion track of a Style.

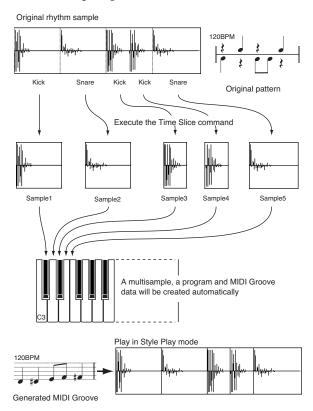
• The Multisample will be automatically saved to the next free available location.

• Samples will be permanently saved to the internal memory.

• The MIDI Groove will be temporarily saved to the internal memory, and will be available only when using the Import function of the Style Record mode (see "Import > Import Groove" on page 161).

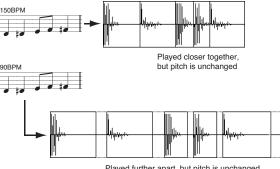
Warning: All MIDI Grooves will be deleted each time the Pa3XLe is turned off.

#### Ex.1 - Generating samples and MIDI Groove data:



Note: Sliced samples and MIDI data are saved with a Write operation.

#### Ex.2 - Varying the groove's tempo

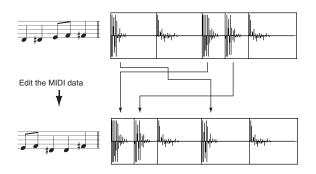


Played further apart, but pitch is unchanged

Note: To vary the groove's tempo, you must first import the generated MIDI data into the Percussion track (Import function of the Style and Pad Record mode), and assign the new generated Sound to the Percussion track.

Gaps between sliced samples, when slowing down the tempo, can be automatically filled by the Extend function, smoothing each sample's tail

Ex.3 - Recombining MIDI notes and samples



**Note:** To recombine notes inside the generated MIDI sequence, you must first import the MIDI data in Style or Pad Record mode, by using the "Import" function. Then, use the Event Edit to change the note order.

# Sample diagram

This diagram shows the sample waveform and the slices. Here is how the sample diagram appears before the Slice:

المكمة الكمر التغرير	الاقتاذ أكار	
have been also been	 he have	
100 A 100		

... and the same diagram after the Slice:

					I.				
					ľ	1	Ľ		
			_	-	L				
	<b>[</b>			-	ľ	ľ	Γ		

# **Metronome Information**

#### Meter

Use this parameter to specify the Meter of the original sample.

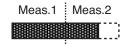
#### Measures

Use this parameter to specify the number of measures of the original sample. Usually, you will load a groove 1- or 2-measures long.

#### BPM

This parameter specifies the tempo (in Beats Per Minute) of the original sample. Pa3XLe automatically calculates this value based on the Start, End (see page 238), Meter and Measures parameters.

The BPM can be only adjusted to values lower than the one automatically calculated. This can be useful, for example, when the actual sample is shorter than the entered Meter and Measures values.



In the above example, the actual groove lasts only up to the first half of Measure 2. The recognized tempo is 130, while the real tempo is 100. Set the BPM value to 100, and a rest will be added to the end of the groove, to allow it to loop seamlessly.

### **Time Slice**

See "The Time Slice procedure" on page 244 for more information.

#### Release

Adjust the value of this parameter to change the number of recognized attacks, by varying the speed needed to the Slice engine to start working again. For example, in the following example, if the Release value is too high (i.e., too long), the second attack may be lost:



**Note:** After changing the Release value, you must select the Slice command again.

#### Threshold

This parameter varies the threshold over which the attacks are recognized (i.e., the Time Slice sensitivity). If it is too low, weaker attacks may be ignored.

**Note:** After changing the Threshold value, you are not obliged to select the Slice command again. The Slices value is immediately changed.

#### Attacks

This (non-editable) parameter shows the number of attacks recognized. More than one attack may be recognized in a single slice. Adjust the Release and Threshold parameters to change the number of recognized attacks.

#### Slices

This (non-editable) parameter shows the number of generated slices, i.e. generated samples and notes in the midifile. To change this value, edit the Release and Threshold parameters.

*Note:* You can have a maximum of 100 slices.

#### Slice

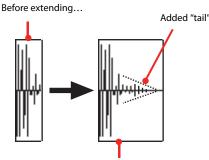
Select this command to execute the Slice after entering the Time Slice page, or changing the Release value. This command is "ghosted" (i.e., non-selectable) if no sample has been recorded of loaded yet.

The Time Slice operation is executed on the sample, from the "Start" to the "End" point set in the Sample Edit / Sample Record section.

# Extend

#### See "The Extend procedure" on page 245 for more information.

When using a sliced groove with a tempo slower than the original, an annoying gap may be heard between a sample and the following one. The Extend function allows you to fix this problem by adding a "tail" to all samples, making their decay smoother and more musical.



...and after extending...

**Note:** You can use the Extend function only after a Time Slice operation.

*Note:* The Extend function increases the original sample size.

#### By

Use this parameter to set the length of the "tail" added to the samples (in percentage). The higher this value, the greater the size of the samples. A setting of 20-30% is usually suitable to most grooves.

**Caveat:** With higher "By" values, the Extend function may add audible artifacts.

#### Mode

This parameter specifies if the added "tail" must decay in a linear way, or sustain for a longer time and then fall suddenly.

Normal

This option is most suitable for percussive sound with a short (but not immediate) decay. The "tail" envelope is linear, and the level decays fast.



Long

This option is most suitable for cymbals, whose sound should be sustained up until the next note. The "tail" envelope is sustained and falls slowly, then falls suddenly next to the end.



#### Extend

Touch this button to execute the Extend command. After you select it, it will return "ghosted", meaning that you can't select it again. If you change any of the parameters in this page, it will be available again.

# The Time Slice procedure

Before executing a Slice operation, you must record or load a sample. Then, you may edit the sample on "Sample Edit > Edit", then execute the Slice operation on this sample.

- 1. After recording or loading a sample, go to the Time Slice page.
- 2. Pa3XLe automatically calculates the BPM parameter, based on the given Meter and Measures values. If you know these data, set the Meter, Measures and BPM (Beats Per Minute) parameters. This would make the slicing more accurate.
- **3.** Select the "Slice" command.

The original sample will be sliced, and each generated sample assigned to a different key:



C2...B2: Full pattern at a Separate sliced samples slower speed C3: Full pattern at the

original speed

Key	Assigned sample/pattern	Speed %
C2	Full pattern cycling at half the speed	50%
C#2		53%
D2		56%
D#2		60%
E2		63%
F2	Full pattern cycling at various speeds	67%
F#2		71%
G2		75%
G#2		80%
A2		84%
A#2		89%
B2		94%
C3	Full pattern cycling at the original speed	100%
C#3 and above	Separate sliced samples	-

A MIDI Groove with the original pattern will also be generated. The screen will change, to show slices separated by vertical lines:

and the second						L.				
						ſ		ľ		
				_	L					
						ſ	M			

4. Test the generated sliced drum kit on the keyboard.

• To test the full pattern at different speed, play a note from C2 (half speed) to C3 (original speed). See table above.

• To test the single sliced samples, play notes from C#3 and above. If you play a full chromatic scale, the original pattern will be sounded.

**Hint:** If too many samples have been generated, and the keyboard can't fit them all, use the OCTAVE buttons to transpose the keyboard, and listen to samples exceeding the upper limit.

- **5.** If the Slice didn't produce satisfactory results, adjust the Release parameter. If this does not produces good results, try adjusting the Threshold parameter, too. After adjusting the Release parameter, you must execute the Time Slice again.
- 6. Since a tempo value rounding happens when making a Time Slice operation, and the loop may not be accurate, you may need to adjust both the "Start" and "End" parameters of the "Sample Edit > Edit" page, to make the groove loop flawlessly. After editing these parameters, you must execute the Time Slice again.

# Go on experimenting different settings! Editing an audio groove is a pure matter of experimentation.

**7.** When the Slice is completed, you can save the sliced samples and the MIDI Groove, or use the Extend function to improve the quality of the slices.

Select the Write command from the page menu. The Write Slice dialog box will appear (see "Write Slice dialog box" on page 249). Assign a name to the new Sound, and save it to an User Sound location.

A MIDI Groove with the same name will also be saved to the internal memory. Be warned, that this area will be deleted when turning the instrument off. Convert it to an internal Style pattern, by using the Import function of the Style or Pad Record mode, before turning the instrument off.

• To improve the quality of the slices, use the Extend function (see "Extend" below).

- 8. After saving, you may press RECORD to exit the Sampling mode.
- **9.** After exiting the Sampling mode, you may load the generated MIDI Groove by using the Import function of the Style Record mode (see "Import > Import Groove" on page 161 for more information).

# **The Extend procedure**

- 1. Set the **By** parameter, according to the tempo of the groove you will use. If you will slow down the groove very much, assign higher values to this parameter, otherwise you may assign lower values.
- 2. Select the Extend Mode. "Long" is more suitable for cymbals.
- **3.** Select the Extend command.
- 4. After the Extend operation is complete, test the full pattern at different speed, by playing notes from C2 (half speed) to C3 (original speed). See table on page 244.
- **5.** If the Extend didn't produce satisfactory results, change the settings. Any previously made change will be deleted.
- **6.** When the Extend is completed, you can save the sliced and extended samples and the resulting MIDI Groove to the internal memory.

Select the Write command from the page menu. The Write Slice dialog box will appear (see "Write Slice dialog box" on page 249). Assign a name to the new Sound, and save it to an User Sound location.

A MIDI Groove with the same name will also be saved to a reserved area of the internal memory. Be warned, that this area will be deleted when turning the instrument off. Convert it to an internal Style pattern, by using the Import function of the Style Record mode, before turning the instrument off.

- **7.** After saving, you may press RECORD to exit the Sampling mode.
- After exiting the Sampling mode, you may load the generated MIDI Groove by using the Import function of the Style or Pad Record mode (see "Import > Import Groove" on page 161 for more information).

# MultiSample > Edit MS

The Multisample is a way of organizing several samples on the keyboard. Each sample is assigned to a Keyboard Zone (or Index), with a higher and a lower limit.

A Multisample is then assigned to a Sound (see "Basic > OSC Basic" on page 210), where it is enriched with several performance parameters, like Amplitude Envelope, LFO, Filters, etc...



# MS (MultiSample)

Touch this area to open the Choose Multisample window, and select one of the available multisamples in memory.

# **Keyboard diagram**

This diagram shows the selected Index/Zone (highlighted), and its Original Note (in red). Use the big "–" and "+" button on its side to scroll the diagram one octave lower or upper.

# **Multisample Setup**

#### Index

Index number of the selected Zone of the multisample / total number of Zones in the multisample. A Zone always corresponds to a single sample.

When you play a note on the keyboard, the corresponding index number is automatically selected.

#### Sample Number / Name

Number / name of the sample assigned to the selected zone of the multisample.

#### **Original Note**

Use this parameter to automatically transpose the assigned sample on the keyboard. When you play this note, the sample sounds exactly as it was recorded.

At first, it matches the "OrigNote (Original Note)" value assigned when editing the sample (see page 238). This will speed up the programming.

The note set with this parameter is also shown in red in the virtual keyboard diagram.

#### Level

Relative level of the selected zone. This value can only be negative.

#### Pitch

Fine tuning of the selected sample in cents (1 cent = 1/100 of a semitone).

#### From ... To

Range of the selected Zone (or Index). The minimum size is one key. When reducing the range of a zone, the adjacent one is automatically increased to fill the gap.

Hint: To create a silent zone, create it and assign no sample to it.

### **Buttons**

#### Insert

Touch this button to split the current zone in half, and create a new zone (Index) on the left of the selected one.

#### Add

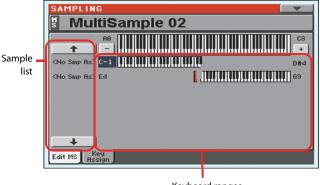
Touch this button to add a new zone (Index) after the last one.

#### Delete

Touch this button to delete the selected Zone/Index. The zone on the right of the deleted one is automatically extended to fill the gap.

# MultiSample > Key Assign

Use this page to see and edit the samples assigned to each Keyboard Range/Index in the multisample. This page gives a better display of the assigned samples and their range on the keyboard.



Keyboard ranges

# **MS (MultiSample)**

See "MS (MultiSample)" on page 246.

### **Sample list**

List of samples assigned to the selected multisample. Use the big button with an arrow on top and to the bottom of the list to scroll the list up or down.

# **Keyboard ranges**

Next to each sample name the low and high Zone limits appear. Edit these values to change the Zone range. The Original Note is shown in red.

# Page menu

Touch the page menu icon to open the menu. Touch a command to select it. Touch anywhere in the display to close the menu without selecting a command.

Write	Init MultiSample
Delete	Load Sample
Normalize	Import
Cut	Export
Trim/Crop	Exit from Record
Select All	

#### Write

Select this command to open the Write Sample, Write Multisample or Write Slice dialog box (depending on the page you are in), and do the following:

• *Write Sample:* Saves the sample to the internal memory. See "Write Sample dialog box" on page 249, for more information.

• *Write Multisample:* Saves the multisample to the internal memory. See "Write MultiSample dialog box" on page 249 for more information.

• *Write Slice:* After a Time Slice opration, saves the Sound, Multisample and the sliced Samples to the internal memory. See "Write Slice dialog box" on page 249 for more information.

#### Delete

Select this command to open the Delete Sample or Delete Multi-Sample dialog box (depending on the page you are in):

• *Delete Sample:* Deletes one or all Samples and Multisamples from the internal memory. See "Delete Sample dialog box" on page 250 for more information.

• *Delete MultiSample:* Deletes a Multisample, or all Samples and Multisamples from memory. See "Delete Multisample dialog box" on page 250 for more information.

#### Normalize

Select this command to automatically rescale the level of the selected sample. Peaks will be raised to -0dB (i.e., maximum volume before clipping), while the remaining parts of the sample will be proportionally raised.

Normalization optimizes the sample's level relative to other samples, making all samples sound more uniformly. It also helps optimizing signal/noise ratio, by preventing further stages of amplification from increasing any residual noise.

#### Cut

Select this command to cut the selected part of the sample (inside the "Start" and "End" points).

#### Trim/Crop

Select this command to cut all parts of the sample out of the selected range (i.e., out of the "Start" and "End" points).

#### Select All

Use this command to select the whole sample.

#### Init Multisample

*Only available in the Multisample page.* Select this command to create a new, blank multisample. Only one Zone will be available, with no sample assigned.

#### Load Sample

Use this command to load single samples (mono or stereo), in KSF, AIFF or WAVE format.

**Warning:** By loading new samples, the sample currently in edit will be lost if not saved. Before loading, use the Write command to save the sample in edit, if not yet saved, to the internal memory.

SAMP	LING: Load Sample			r
Type	Name 🔺	Size	Date	
	MYSHOW		17-12-10 22:55	-
	TEMP		19-01-11 04:43	
			-	-
	USER]			Ξ
<b>▼</b> HD	Open Close	2	Load	

The samples are loaded to the editor. Before leaving the Sampling mode, use the Write command to save any unsaved sample to the internal memory as a New Sample.

- "KSF" is Korg's native sample format, used by the Trinity and Triton series of workstations, as well as the Pa-series arrangers. The file name must have the ".KSF" extension.
- "AIFF" is the Apple Mac's preferred format for audio. The file name must have the ".AIF" extension.
- "WAVE" is the Microsoft Windows preferred format for audio. The file name must have the ".WAV" extension.

**Note:** You can only load samples in a 8 or 16-bit resolution, and a sampling frequency rate from 11,025 to 48,000Hz. Loaded samples always preserve their original resolution.

**Note:** If the sample exceeds the maximum size allowed by the Pa3XLe (1,048,576 samples, corresponding to 1 Megasample, either mono or stereo), it will be truncated. A warning will appear in the display.

*Hint:* While in this window, you can use the Search function, allowing for searching a Sample file in the various media.

#### Import

Use the Import command to import Sounds and Multisamples (including the contained Samples) in formats other than the native Pa-Series format.

SAMP Type	LING: Import Name 🔺	Size	Date	-
	MYSHOW		17-12-10 22:	55 🛋
	TEMP		19-01-11 04:4	43
				-
	_USER] Open Clo	19.0	Load	E
			Load	

With this command, you can import the following formats:

"PCG" is Korg's native Program format, used by the Triton series of workstations. The file name has the ".PCG" extension. *Note that Drum Kits cannot be imported.* 

When importing a PCG file, you can choose between a single Program or a whole bank:

Import Triton PCG				
Program Ø Big Sweep Stab				
O Bank 💌 Bank A				
То				
Sound Bank: USER01	Select			
Sound: Ø - < empty >	Jelect			
Cancel OK				

Choose **Program** to choose a single Program (corresponding to a Pa-Series Sound); touch the Program number and dial in the corresponding number. Choose a target Sound location where to load the imported Program.

Choose **Bank** to import all the Programs from the selected bank. Touch the Sound Bank name to choose a target bank where to load the imported Programs.

- "KMP" is Korg's native multisample format, used by the Trinity and Triton series of workstations. The file name has the ".KMP" extension.
- "SF2" is a sound bank format by Creative Labs. The file name has the ".SF2" extension. Multisample data are imported. Due to the deep differences with Korg's own fomat, some Instruments from the SF2 file could not be imported (for example, Instruments with overlapping zones).

When importing an SF2 file, you can choose between a single Multisample or the whole bank:

Import SoundFont2
MultiSample     DB Bass
O Complete bank
Override Samples Names
Close Import

Choose **MultiSample** to choose a single Multisample (i.e., SF2 Instruments); touch the Multisample number and dial in the corresponding number.

Choose **Complete bank** to import all the Multisamples from the selected bank.

Check **Override Sample Names** if you want to assign the Sample names a progressive number. In this case, when importing a Multisample whose name is, for example, "Piano", you will have all Samples renamed as "Piano_001", "Piano_002", and so on.

**Hint:** If you get a messages warning there isn't enough memory to load all Samples or resources, return to the main Sampling page and choose the Delete command to clean the Sample memory, then retry. Please note that importing single Multisamples is the safest way to avoid filling the memory with unnecessary data.

Imported Sounds and Multisamples are automatically stored in the internal memory, and will not be lost when turning the instrument off.

**Note:** While Pa3XLe and Triton share many of their internal Multisamples, some of them may differ. While reading a PCG file, Pa3XLe tries to use exactly the same Multisamples as in Triton. If this is not possible, it looks for a similar Multisample. If this too is not possible, an <empty> Multisample will be selected. Enter the Sound mode, and select a Multisample suitable for the imported Program.

**Note:** Not all Triton's PCG data are imported. Insert FX, EQ, Arpeggio, Combi, Global and Drum Kit data are not loaded.

*Note:* You cannot import Drum Kits.

**Note:** Multisample may contain various Samples. They are assigned to the same keys as in the original file.

*Hint:* When importing a KMP file, take note of the selected Multisample name; you will need it in Sound mode, when assigning the Multisample to a new Sound.

*Hint:* While in this window, you can use the Search function, allowing for searching a Sample file in the various media.

#### Export

Depending on wheter you are in the "Sample Edit / Sample Record" or "Multisample" section, this command allows you to export a sample in one of two popular computer audio file formats (WAVE and AIFF), or a multisample in a Korg ".KMP" file.

See "Export Sample page" on page 250, or "Export Multisample page" on page 251 for more information.

#### **Exit from Record**

Choose this command to exit from the Sampling mode.

## Write Sample dialog box

Open this dialog box by selecting the Write command from the page menu, while in the Sample Edit / Sample Record section. In this dialog box you can save the sample to the internal memory, so that it will be preserved when Pa3XLe is turned off.

₩rite Sample				
Name: T MySample				
DrumSample family: 💌 SFX				
Save as a new Sample				
◯ Save To 0				
Cancel OK				

To assign a different name to the sample, touch the **T** (Text Edit) button to open the Text Edit window.

In case you are saving a percussive sample, choose a Drum Sample family to be assigned to.

Select an option to choose a memory location where to save the sample:

- Select "Save as a new Sample" to save to a new location.
- Select "Save to" to overwrite an existing location. *Warning: The older sample at the same location will be deleted!*

## Write MultiSample dialog box

Open this dialog box by selecting the Write command from the page menu, while in the Multisample section. In this dialog box you can save the multisample to the internal memory. Multisamples are a way to organize samples on the keyboard, and are used by Sounds as their basis.

Write MultiSample					
Name: T <empty ms=""></empty>					
Save as a new MultiSample					
🔾 Save To 🛛					
Cancel OK					

To assign a different name to the multisample, touch the **T** (Text Edit) button to open the Text Edit window.

Select an option to select a memory location where to save the sample:

- Select "Save as a new MultiSample" to save to a new location.
- Select "Save to" to overwrite an existing location. *Warning: The older multisample at the same location will be deleted!*

## Write Slice dialog box

Open this dialog box by selecting the Write command from the page menu, while in the Time Slice page. In this dialog box you can save the Sound, sliced Samples and Multisample generated by the Time Slice function, together with the generated MIDI Groove.

The Sound will be saved to the selected User bank location in the internal memory. The Multisample will be saved to a free location in the same memory. Samples will be saved to the internal memory.

**Note:** The MIDI Groove is automatically saved in a reserved, temporary location, and automatically deleted when turning the instrument off. So, import it (by using the "Import > Import Groove" function in Style/Pad Record mode, see page 161), before turning the instrument off.

Warning: The older Sound at the target location will be deleted!

Write Slice
Name: T MySample
То
Sound Bank: USER01
Sound: 0 - Grand Piano
Cancel OK

#### Name

To assign a different name to the Sound, touch the **T** (Text Edit) button to open the Text Edit window.

#### Sound Bank

Target bank of Sounds. Each bank corresponds to one of the SOUND buttons. You can use the VALUE dial to select a different bank.

#### Sound

Target Sound location in the selected bank. You can use the VALUE dial to select a different location.

#### Select...

Touch this button to open the Sound Select window, and select a target location.

## **Delete Sample dialog box**

Open this dialog box by selecting the Delete command from the page menu, while you are in any page of the Sample Edit/Sample Record section.



#### Selected

Select this command, and select a sample number, to delete just one of the samples from the internal memory.

#### Not assigned to any Multisample/Drumkit

Select this command to delete only samples not yet assigned to a Multisample or Drum Kit.

**Note:** Use this option with care, since you may delete samples you would like to preserve, that have not yet been assigned to a multi-sample or drumkit. Use it only when you are sure all desired samples have been assigned to a multisample or drumkit.

#### All Samples, Multisamples, Drum Samples

Select this command to delete all samples, multisamples and drum samples from the internal memory. This operation completely resets the RAM, and may be used to "clean-up" any trouble.

## **Delete Multisample dialog box**

Open this dialog box by selecting the Delete command from the page menu, while you are in any page of the Multisample section.



• Select "Selected", then a multisample number, to delete just one of the multisamples from memory.

Check the "Delete Unassigned Samples" option, to also delete all samples not assigned to a different multisample. By checking this option, all samples assigned to the multisample you are deleting, and all samples not assigned to a different multisample, will be deleted.

**Note:** Use this option with care, since you may delete samples you would like to preserve, that have not yet been assigned to a multisample or drumkit. Use it only when you are sure all

desired samples have been assigned to a multisample or drumkit.

- Select "MultiSamples" to delete all multisamples. No samples will be deleted, including those associated with the deleted multisamples.
- Select "All Samples, Multisamples, Drum Samples" to delete all samples, multisamples and drum samples from the internal memory. This operation completely resets the RAM, and may be used to "clean-up" any trouble.

## **Export Sample page**

Open this page by selecting the Export command from the page menu, while you are in any page of the Sample Edit/Sample Record section.

First of all, select the target location where to export the sample:

SAMP Type	LING: Export Sample	Size	Date	
	MYSHOW		17-12-10 22:55	-
	TEMP		19-01-11 04:43	
				-
E [KHD]	USER) Open Close		Save	E

Then touch the Save button to see the Export Sample dialog box:

Export Sample			
Original Name: MySample			
File name: T MySample			
File Type: 💌 .WAY - Wave File Format			
Cancel OK			

#### **Original Name**

Name of the sample being exported.

#### **File Name**

Name of the generated file on the storage device.

#### **File Type**

Either of the file types you can choose as the file format.

- WAV Microsoft Wave format, very common on Windows PCs.
- AIFF Apple's Audio Interchange File Format, standard on the Mac.

## **Export Multisample page**

Open this page by selecting the Export command from the page menu, while you are in any page of the Multisample section.

First of all, select the target location where to export the multi-sample:

SAMPLING: Export MultiSample					
Type	Name 🔺	Size	Date		
	MYSHOW		17-12-10 22:55	-	
	TEMP		19-01-11 04:43		
			-	÷	
	_USER) Open Close		Save	E	

Then touch the Save button to see the Export MultiSample dialog box:

Export MultiSample				
Original Name: <empty ms=""></empty>				
File name: T Empty MS				
Cancel OK				

By using this function, you can export from the internal memory the Multisample in edit in the Multisample section, and all linked samples. The Export operation generates a ".KMP" file (Korg's proprietary file format for multisamples), and a folder containing a series of ".KSF" files (Korg's proprietary file format for samples) inside the same directory.

**Note:** When exporting a stereo multisample, be careful to assign a different name to the Left and Right channel files, to avoid over-writing. A "-L" and "-R" suffix is usually added after the name of this kind of files.

## **Merging Samples from various sources**

When you load a .SET folder, all User Samples in memory are deleted. To merge samples from several sources, do the following.

- **1.** Load a .SET folder containing samples you want to merge with other samples.
- 2. Load single Sounds from other .SET folders.
- **3.** Load or import Samples from other sources (Trinity, Triton, Way, Aiff files).
- 4. Save the .SET folder, over the same or a new .SET folder.

## Global

The Global mode is where you can set global functions. This mode overlaps the current operating mode (Style Play, Song Play, Sequencer, Sound).

## **Overview on the Global mode**

The Global mostly contains a series of global parameters applied to the whole instrument (or to each separate operating mode) as a whole, that are automatically written to memory after editing. Examples of global parameters are the Master Tuning or the Power Management.

Global mode also contains parameters that are applied to the instrument as a whole, but can be saved as a "preset", that can later be loaded to change all parameters at once. Examples of this kind of parameters are the MIDI channel assignment, saved into the MIDI Presets, or the Master EQ settings, saved into the Master EQ Presets.

Parameters in the Global mode, either automatically memorized or saved to a preset, are opposed to "local" parameters that you can access in the other operating modes. Examples of local parameters are the Sounds assigned to a track or the function assigned to an Assignable Switch, both saved into a Performance or STS (two types of preset containing musical data relevant to the selected operating mode).

**Note:** Saving or loading a "SET" folder may also save or load the Global file. Loading the Global may change several parameter's value. Parameter changing may be avoided by turning the Lock on for any single parameter (or groups of parameters in the Lock page of the Global mode, see "General Controls > Lock" on page 255).

## Main page

There is no main page in the Global edit mode. When pressing EXIT, you exit the Global mode, and the underlying operating mode in the background is recalled.

## Edit menu

From any page of the Global mode, press the MENU button to open the Global edit menu. This menu gives access to the various Global edit sections.

When in the menu, select an edit section, or press EXIT to exit the Global mode.

When in a page, press EXIT to go back to current operating mode in the background (Style Play, Song Play, Sequencer, Sound).

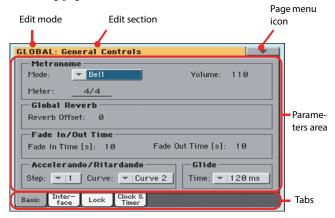


Each item in this menu corresponds to an edit section. Each edit section groups various edit pages, that may be selected by touching the corresponding tab on the lower part of the display.

**Note:** The Global mode is not available while in Record mode (Style Record, Pad Record, Song Record, Sampling).

## **Edit page structure**

All editing pages share some basic elements.



#### Edit mode

This indicates that the instrument is in Global mode.

#### **Edit section**

This identifies the current edit section, corresponding to one of the items of the edit menu (see below).

#### Page menu icon

Touch this icon to open the page menu (see below).

#### **Parameters** area

Each page contains various parameters. Use the tabs to select one of the available pages. For detailed information on the various types of parameters, see sections starting below.

#### Tabs

Use tabs to select one of the edit pages of the current edit section.

## **General Controls > Basic**

This page contains various general parameters, setting the status of the keyboard, the fade in/out, and the accelerando/ritardando.



#### Metronome

#### Mode

Use this parameter to activate the metronome's type of accent.

Normal	No accent can be heard.
Accent	The first beat of each measure is accented.
Bell	A bell sound is heard at the first beat of each measure.

#### Volume

Use this parameter to set the volume of the metronome.

0...127 Volume level.

#### Meter

Use this parameter to choose the meter (time signature) of the Metronome.

1/1...16/16 Selected Meter.

#### **Global Reverb**

#### **Reverb Offset**

This is the master offset for all reverbs. Use it to adjust reverb tails to the room where you are playing. Use negative values when you are in a very reverberant room, positive values if the room is too dry.

By using this global control, you are not obliged to change the reverb time in each single Performance, STS, Style Settings, or Song.

-50	Less reverb.
0	Standard reverb.
+50	More reverb.
0	

#### Fade In/Out Time

These parameters allows you to set the speed for the Fade In/Out function.

#### Fade In Time

Time for a full fade in (from zero to maximum volume), after you press the FADE IN/OUT button.

5...20 Fade time (in seconds).

#### **Fade Out Time**

Time for a full fade out (from maximum volume to zero), after you press the FADE IN/OUT button.

5...20 Fade time (in seconds).

#### Accelerando/Ritardando

These parameters lets you adjust the speed of the Accelerando and Ritardando functions.

#### Step

Speed of the Tempo change (from 1 to 6). With higher values, the step change is greater, and the speed will change faster. With lower values, the step change is smaller, and the speed will change more slowly.

#### Curve

Accelerando/ritardando curves (from 1 to 3). Experiment the various options, to see the one that best fit your taste.

#### Glide

Glide is a function you can assign to a footswitch. When the pedal is pressed, affected notes on Upper tracks are bent down, according to settings for the Pitch Bend on the same tracks. When the pedal is released, notes return to the normal pitch, at the speed defined by the "Time" parameter.

To change Pitch Bend values for each Upper track, see the "PB Sensitivity" parameter in the Style Play mode (see page 120)

#### Time

Time needed to notes affected by the Glide to return to the normal pitch.

## **General Controls > Interface**

This page contains parameters related to user interface.

GLOBAL: General Controls	
Language	
Language: 💌 English	Change
Background Color	Display Hold
Color: 💌 Default	On On
Program Change Track	Activity
Show Sho	W
- Auto Select	
Style Performance	Save
Basic Inter- Lock Clock & Face Lock Power	

#### Language

#### Language

Use this pop-up menu to select one of the available languages for the on-screen keyboard.

*Note:* Some of the characters can only be used when editing Song-Book Entry names.

#### **Change button**

To apply the selected language to the onscreen keyboard, touch this button and restart the instrument as described below.

#### How to select a language

- 1. Since Pa3XLe must be restarted at the end of this procedure, be sure to first save all unsaved data.
- 2. While in this page, select a language from the pop-up menu.
- 3. The "Change" word will start flashing. Touch it.
- **4.** A message will ask you to reboot the Pa3XLe. Touch OK to close the message window.
- 5. Set Pa3XLe to standby, then on again.

#### **Background Color**

#### Color

Use this parameter to choose a different color scheme for the display.

#### **Display Hold**

#### On/Off

When this parameter is checked, if you open a temporary windows (like the Sound Select window), it remains in the display until you press EXIT or an operating mode button. When it is not checked, any temporary window closes after a certain time.

#### **Program Change**

#### Show

Check this parameter to show Program Change numbers next to Sound names in the Sound Select window. By default, this parameter is turned on.



**Note:** Program Change numbers are always shown in the various Track Info areas.

#### **Track Activity**

#### Show

Use this parameter to turn on/off the Track Activity display. When it is turned on, you can monitor events coming from the tracks or the MIDI inputs. Incoming events are shown by the color changing on each track's label.

	- [ P - 57		87	100		100	
T01	T02	T03	T04	T05	T06	T07	T08
Name	Volume	Pad	Split	Sub Scale	Juke Box		

#### **Auto Select**

#### Style

When this parameter is checked, the latest selected Style is immediately selected when pressing the STYLE button corresponding to the bank.

This way, you can assign your preferred Style to each control panel's button, and select it just with a single press.

However, the Style Select window still appears when you press one of the STYLE buttons corresponding to the bank, so you can select a different item if desired.

#### Performance

When this parameter is checked, the latest selected Performance selected in a bank is immediately selected when pressing the PERFORMANCE button corresponding to the bank.

This way, you can assign your preferred Performance to each control panel's button, and select it just with a single press.

However, the Performance Select window still appears when you press one of the PERFORMANCE buttons corresponding to the bank, so you can select a different item if desired.

#### Save

Touch this button to save the current Style and Performance assignment. You will find the saved assignment when turning the instrument on again.

## **General Controls > Lock**

This page, split in more panes that can be selected by means of the corresponding side tabs, contains all the available locks. Locks prevent parameter values to be changed when choosing a different Performance, Style or STS.

#### Locks

All the available locks, listed below. Lock them to prevent changes due to selecting different elements. These locks are also found in various other pages, next to the locked parameter.

Hint: To save the status of parameters that have to remain unchanged, set them and save the MY SETTING Performance (automatically selected when turning the instrument on). After having saved the startup Performance, go to these pages and lock the parameters that must remain unchanged.

#### **Tuning pane**



#### Master Transpose

When this lock is closed, Master Transpose is not automatically changed when selecting a different Performance or Style, or a different SongBook Entry. Also, this lock prevents a Standard MIDI File generated with an instrument of the Korg Pa-Series to change the Master Transpose.

(See "Master transpose" on page 111).

#### Sub Scale/Quarter Tone

When locked, selecting a Performance or STS, or a SongBook Entry, will not change the Sub-Scale or Quarter Tone value.

(See "Sub-Scale panel" on page 116).

SubScale/Quarter Tone from STS

When locked, selecting an STS will not change the Sub-Scale or Quarter Tone settings. The STS will change sounds and effects but not the scale.

(See "Sub-Scale panel" on page 116).

Auto Octave Depending on the status of this lock, the Upper tracks can be automatically transposed when turning the SPLIT on and off.

> • If locked, turning the SPLIT on or off will not change the Upper tracks transposition.

> • If unlocked, when turning the SPLIT button off (Full keyboard mode) the Upper tracks Octave Transpose will be automatically set to "0". When

turning the SPLIT button on (Split keyboard mode) the Upper tracks Octave Transpose will be automatically set to "-1".

#### **Control pane**

GLOBAL: General Controls	
Lock	
Assignable Switches	Tuning
Dupper 1 FXs	Control
De Pad	Style
Lower	$\mathbb{P}$
ⓑ Keyboard Mode (Split)∕Accompaniment	
Basic Inter- face Lock Clock & Power	

Assignable Switches

When locked, selecting a Performance or STS will not change the functions assigned to the Assignable Switches.

(See "Pad/Switch > Switch" on page 129).

Upper 1 FXs In Sound mode, you can assign a Sound to the FX B Group. When you assign a new Sound to the Upper 1 track, the FX B settings and Master FX send levels saved with that Sound can be automatically selected, overriding Performance/STS settings for this track. Whether Sound or Performance/STS effect parameters will be considered, it depends on the status of this lock.

> • If the Upper 1 FX Lock is turned on, when assigning a new Sound to the Upper 1 track, Performance/STS parameters are left untouched; selected effects, and FX Send values, are not changed.

• If the Upper 1 FX Lock is turned off, when assigning a new Sound to the Upper 1 track, Sound parameters are considered; selected effects, and FX Send values, are changed according to the Sound's stored data.

Note: If the effects associated to the selected Sound are not compatible with the effects already assigned to the FX B block, the Master FX Send values on the other Keyboard tracks will be automatically set to zero.

For example, assume a chorus effect is assigned to the Master 2 FX processor. If the new Sound assigns a distortion effect to the Master 2 FX processor, the Master 2 FX Send value on the Upper 2, Upper 3, and Lower tracks will be set to zero, to avoid these tracks sound in the wrong way. This way, the Upper 1 track (usually the most important one for solo playing) will sound with the needed effect, while the other Keyboard tracks will just sound dry.

When locked, selecting a Style or SongBook Entry will not change the Pad assignment.

(See "Pad/Switch > Pad" on page 129).

Pad

Lower When this lock is closed, the Lower track remains unchanged when a different Style, Performance or STS is selected.

This is useful if, for example, you prefer to always play with the left hand muted and reserved only to the chords.

**Hint:** If you want the same Lower settings to be used during all your shows, save your preferred Lower settings to the MY SETTING Performance (automatically selected on startup).

#### Keyboard Mode (Split)/Accompaniment

When this lock is closed, the status of the SPLIT button (therefore of the keyboard mode) and the CHORD SCAN section remains unchanged when a different Performance or STS is selected.

This is useful if, for example, you prefer to always play in Full Keyboard, with chords recognized on the whole keyboard range.

**Hint:** If you want the same Keyboard Mode and Lower Scanning settings to be used during all your shows, save your preferred settings to the MY SET-TING Performance (automatically selected on startup), then close this lock.

#### Style pane

GLOBAL: General Controls	
Lock	
🚡 Style Tracks Volume	Tuning
🚡 Style Tracks Play/Mute	Control
🔒 Style Element	Style
Bass Inversion	
🔒 Manual Bass	
Basic Inter- face Lock Clock & Power	

#### Style Tracks Volume

When this lock is closed, the Style tracks' volume do not change when a different Style is selected.

This is useful when you create your own User Styles, and prefer to dynamically adjust the volume by using the sliders as in a mixer. It is not recommended with Factory Styles, each one already mixed at its best right at the factory.

#### Style Tracks Play/Mute Lock

When this lock is closed, selecting a Style does not cause the Play/Mute status of the Style tracks to be changed. This way, you can, for example, turn the bass track off during a whole show, to allow your bassist to play the part live. Also, you could mute all Acc tracks, to only play with the Drum and Bass tracks.

Style Element When this lock is closed, the selected Style Element (Variation, Intro...) will not change when choosing a different Style.

> This lock has no effect on the Styles automatically selected when choosing a SongBook Entry. The Style Element memorized in the SongBook Entry is always selected.

#### **Bass Inversion**

When locked, selecting a Performance or STS will not change the Bass Inversion status.

(See "BASS INV. (Bass Inversion)" on page 13).

Manual Bass When locked, selecting a Performance or STS will not change the Manual Bass status.

(See "M. BASS (Manual Bass)" on page 13).

## General Controls > Clock & Power

#### **Date & Time**

Pa3XLe includes a battery-backed system calendar and clock. This allows for automatically adding a time-stamp to the files when they are created or edited.

GLOBAL: General Controls
Date & Time       Month:     ▼ January       ✓ Day:     0       ✓ Year:     0
Time: 00 : 00 : Apply
Auto Power Off
Basic Inter- Lock Clock & Power

**Note:** When you edit a resource file (Sounds, Styles...), all items in the same bank have their modification date changed. For example, if you edit a single Style in the "Pop" bank, all Styles in that bank will take the new modification date.

#### Month

Use this pop-up menu to choose a month.

#### Day

Use this numeric field to input the day of the month.

#### Year

Use this numeric field to input the year.

#### Time

Use these numeric fields to input the time, in the "hour:minute:second" format.

#### Apply

After having edited all calendar and time fields, touch this button to apply the changes.

#### **Auto Power Off**

Pa3XLe can automatically enter standby after two hours of being unused, to save power and help preserving the environment.

#### On

When this parameter is checked, a few minutes before automatic standby a message will warn you that the instrument is going to be put on standby. All unsaved data currently in editing or recording will be lost.

Auto Power Off - Warning
This instrument will automatically turn off within 10 minutes. Please push any button on the control panel, play any note or touch the screen to avoid it.
<u>0</u> K

At this message, you can let the instrument enter standby, or you can touch the display, press any button on the display, or play the keyboard to leave it turned on and continue using it.

## Mode Preferences > Style

In this page you can set various general parameters for the Style Play mode.

GLOBAL: Mode Preferences
Style Play Preferences
Split Point
Chord Recognition: 💌 Expert
Velocity Control: 💌 Off Value: 95
Scale Mode: Vpper Tracks
Style Tracks Global Volume
Memory Mode: 💌 Chord
DR./PERC ACCOMP BASS
Style Song Media

#### **Split Point**

Use this parameter to select the global split point. This point is independent of any Performance or STS.

See "Split panel" on page 116 for more information.

#### **Chord Recognition**

This parameter defines how chords are recognized by the autoaccompaniment engine.

Depending on the status of the CHORD SCAN section, the Chord Recognition mode is automatically set as in the following table:

Chord Recognition Mode	
CHORD SCAN = LOWER	CHORD SCAN = UPPER/FULL KEYBOARD (LOWER+UPPER)
One Finger	Fingered (3 Notes)
Fingered (1 Note)	Fingered (3 Notes)
Fingered (3 Notes)	Fingered (3 Notes)
Expert	Expert

One Finger You can compose a chord using a simplified chord playing technique:

• Play a single note for a Major chord to be recognized.

• Play the root note, plus a white key on the left, for a 7th. For example, play C3 + B2 for a C7.

• Play the root note, plus a black key on the left, for a Minor chord. For example, play C3 + Bb2 for a C minor.

• Play the root note, plus a white and a black key on the left, for a Minor 7th. For example, play C3 + B2 + Bb2 for a C min 7.

Fingered (1 Note)

With the Lower chord scan mode, play one or more notes to compose a chord. A full Major chord will be recognized when a single note is played.

With the Full or Upper chord scan mode, play at least three notes to compose a chord.

Fingered (3 Notes)

Always play three or more notes for a chord to be recognized.

Expert With the Lower chord scan mode, play two or more notes for a chord to be recognized. With the Full or Upper chord scan mode, play at least three notes.

> If you play just one note, a unison will be played. If you play a fifth, a "root+5th" chord will be played.

> With this mode, you can play rootless and slashed chords, often used in jazz, fusion, modern pop and light music. This type of chord recognition is very useful to play piano chords typical of jazz piano players. You don't always need to play the root note, doubling the note already played by the bass track.

#### **Velocity Control**

Set this parameter to trigger one of the following functions simply by playing louder with your left hand. When playing with a velocity value higher than the value set by the "Velocity Control Value" parameter (see page 258), the selected function will be activated.

This function only works when the SPLIT LED is turned on.

	, ,
Off	The function is turned off.
Break	When playing with a velocity higher than the trigger value on the Lower track, the Break is automatically triggered.
Start/Stop	You can start or stop the Style by playing harder on the keyboard.
Bass Inversion	When playing with a velocity higher than the trigger value, the Bass Inversion function will be activated or deactivated.
Memory	When playing with a velocity higher than the trigger value, the Memory function will be activated or deactivated.

#### **Velocity Control Value**

Use this parameter to set a velocity threshold over which to automatically trigger the Style Start/Stop or select one of the other functions (see "Velocity Control" above).

#### Scale Mode

This parameter defines which tracks are affected by the selected alternative scale (see "Scales" on page 439).

Keyboard Tracks

The scale will affect all Keyboard tracks.

- Upper Tracks The scale will only affect Upper 1-3 Keyboard tracks.
- All Tracks The scale will affect all tracks (Keyboard, Style, Pads).

#### Memory Mode

This parameter sets the way the MEMORY button works.

Chord When the MEMORY LED is on, recognized chords are kept in memory even when raising your hand from the keyboard. When the LED is off, chords are reset when raising your hand.

#### Chord + Lower

When the MEMORY LED is on, recognized chords are kept in memory, and the Lower sound is held until the next note or chord is played. When the LED is off, both the chord (and therefore the accompaniment) and Lower sound are cut when raising the hand from the keyboard.

#### Fixed Arr. + Lower

When the MEMORY LED is on, recognized chords are kept in memory, and the Lower sound is held until the next note or chord is played.

When the MEMORY LED is off, the Lower sound is cut when raising the hand from the keyboard; on the contrary, the chord is kept in memory (so that the accompaniment can continue to play).

#### **Bass & Lower Backing**

With this function, you can play a simple accompaniment with your left hand. For this to work, the SPLIT LED must be turned on, and the Style must not be running. By default, this function is turned on.

On When the Style is not running, and you play a chord with your left hand, the chord is played by the Lower Sound (even if it is muted), while the chord root is played by the Bass Sound. When you start the Style, the normal behavior is restored.

When the Bass & Lower Backing function is active, the Backing icon appears in the Lower track Sound's area.

Off No Bass Sound is added when the Style is not running. The Lower track can be heard only if it is not muted.

#### **Style Tracks Global Volume**

In Style Play mode, the volume of the grouped Style tracks is a global offset of the values memorized in the Style. When you choose a different Style, this offset will not change, and the average volume of the Style tracks remains the same.

These controls allows you to globally set the balance between the Drum/Percussion, Bass and Accompaniment tracks. For example, if you prefer Drums and Bass to be prominent to make them have more 'punch', you can lower the grouped Accompaniment tracks.

Changes are not memorized to a Performance or to the current Style Settings. Instead, they are memorized as a global parameter.

0...127 Volume level.

## Mode Preferences > Song & Sequencer

In this page, you can set various general parameters for the Song Play and Sequencer modes.

GLOBAL: Mode Preferences		-
- Song Play/Sequencer Preferen	ices	
SMF Melody Track:	Frack 4	
Drum&Bass Mode – Drum Trk: 💌 🛛	Frack 10	
Drum&Bass Mode - Bass Trk: 💌 🛛	Frack 2	
Fast Play	Save Trk & FX	
Style Song Media		

#### SMF Melody Track

This parameter lets you select the Song's Melody track for Standard MIDI Files. This track can then be muted by using the "Song Melody - Mute" function, assignable to an Assignable Switch or Footswitch.

#### Drum & Bass Mode - Drum

This parameter lets you select the Song's Drum track. This track is left set to play (together with the Bass track) when selecting the "Drum&Bass" function, assignable to an Assignable Switch or Footswitch.

#### Drum & Bass Mode - Bass

This parameter selects the Song's Bass track. This track is left set to play (together with the Drum track) when selecting the "Drum&Bass" function, assignable to an Assignable Switch or Footswitch.

#### **Fast Play**

When checked, this function allows to skip any empty setup beats at the beginning of a Standard MIDI File, and immediately start from the first note. While the beats are skipped, setup data they may contain are read and considered.

Please note that, being audio data, any empty space at the beginning of an MP3 file cannot be skipped.

**Note:** When Pa3XLe is driving an external musical instrument, the fast transfer of MIDI data to the MIDI OUT or USB port may cause a delay to the Song's start. Therefore, we suggest to turn this function off when Pa3XLe is hooked to other instruments.

#### Save Trk & FX

Touch this button to save the global parameters for the Song Play mode.

When touching this button, you are saving the following parameters:

- Play/Mute status of the Song tracks
- Default FX A Group effect settings
- EQ settings for the Song tracks
- Internal/External status of the Song tracks

## Mode Preferences > Media

This page includes various settings for the Media mode.

GLOBAL: Mode		
Media Prefe		٦.
	ect	
Global Prot	tect	ł
📕 🔳 Factory Sty	yle and Pad Protect	
Factory So	und Protect	I
Hide Unknow	wn Files	
Show Column	ns	5
Size	Date	
Style Song Style	Media	

#### **Media Preferences**

#### **Media Protect**

When on, this parameter protects the internal "DISK [KORG DISK]" disk unit from writing.

#### **Global Protect**

When on, this parameter protects the global parameters from changes when loading data from disk.

*Note:* Global data from other Pa-Series models are not loaded even without protection.

#### **Factory Style and Pad Protect**

When On, this parameter protects the Factory Styles and Factory Pads (named "Hit", "Sequence" and "Local" in the Pad Select window) from being overwritten when loading data from a device. Furthermore, you can't access these banks when saving data.

Also, when this option is checked, you cannot write any STS (Single Touch Setting) or Style Settings onto the Factory Styles. The "Write Single Touch Setting" and "Write Current Style Settings" command in the page menu are greyed out and cannot be selected. All original settings of the Factory Styles will be left untouched.

When Off, you can load or save User Styles or Pads into the Factory Style banks and Factory Pad banks. This way, you can customize your Factory Style and Pad banks. A Save All procedure also saves the Factory Style and the Factory Pad banks.

**Note:** This parameter is automatically set to On when the instrument enters standby.

**Note:** Should you accidentally delete, change or overwirte some Factory Data, reload the Backup data or use the Factory Restore procedure (Media > Utility).

#### Factory Sound Protect

When On, this parameter prevents writing Sounds from the Sound mode into the Factory locations (Factory, Legacy, GM banks). When Off, you can freely save Sounds either in the Factory or User Sound area.

**Warning:** Use this feature with great care! Reorganizing, editing or changing the Factory Sounds may make both Styles and Standard MIDI Files play with the wrong Sounds!

*Note:* This parameter is automatically set to On when the instrument enters standby.

**Note:** Should you accidentally change or overwrite some Factory Data, reload the Backup data or use the Factory Restore procedure (Media > Utility).

#### **Hide Unknown Files**

When this option is checked, non-proprietary files are hidden when using Media operations, therefore making browsing directories easier.

#### **Show Columns**

#### Size

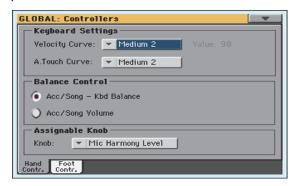
When checked, the Size column is shown in the File Selector when using Media operations.

#### Date

When checked, the Date column is shown in the File Selector when using Media operations.

## **Controllers > Hand Controllers**

In this page you can program those controls you can operate with your hands.



#### **Keyboard Settings**

#### **Velocity Curve**

This parameter sets the sensitivity of the keyboard to your touch.

Fixed No dynamic control available. Dynamic values are fixed, as in classic organs. When this option is chosen, you can set the fixed velocity value:

Velocity Curve: 🔻 Fixed Value: 90

Soft1 ... Hard3

Curves, from the lightest one to the hardest one.

#### **A.Touch Curve**

This parameter sets the sensitivity of the keyboard to the pressure you apply after first pressing a key.

Soft1 ... Hard3 Curves, from the lightest to the hardest one.

Off The aftertouch is turned off.

#### **Balance Control**

#### **Balance Control**

The BALANCE knob can either be used to mix between the Keyboard and Accompaniment/Song tracks, or to control the Accompaniment/Song Volume without changing the Keyboard tracks. This is always a relative control, whose effective maximum value is determined by the MASTER VOLUME slider position.

**Note:** The BALANCE knob only works in the Style Play and Song Play modes.

Acc/Song - Kbd Balance

While in Style Play and Song Play mode, the BALANCE knob balances the volume of the Keyboard (Kbd) tracks against the Style (Accompaniment), Song and Pad tracks.

Acc/Song Volume

While in Style Play and Song Play mode, the BALANCE knob controls the volume of the Style (Accompaniment), Song and Pad tracks.

## **Controllers > Foot Controllers**

This page lets you select a function to the Assignable Pedal/Footswitch, and select the polarity for the Damper and Assignable Pedal/Footswitch.

GLOBAL: Co	ntrollers 📃 💌
Pedal/Fo	otswitch
Function:	Vocal Remover On/Off
	Calibration
Damper -	
	Calibration
Hand Foot Contr. Contr.	

The following (optional) Korg pedals are compatible with Pa3XLe:

Туре	Model
Continuous (Volume/Expression)	EXP-2, XVP-10
Switch	PS-1, PS-3
Damper	DS-1H (supporting half-pedalling)

#### **Pedal/Footswitch**

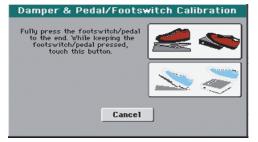
#### Function

Function assigned to a continuous (i.e., volume/expression) pedal, or to a footswitch, connected to the ASSIGNABLE PEDAL connector. See page 437 for a list of the assignable functions. The first functions are switch-type functions, while the remaining (starting from Master Volume) are continuous-like functions.

#### Calibration

Use this button to calibrate and choose the polarity of the pedal/ footswitch.

- 1. Connect the pedal or footswitch to the ASSIGNABLE PEDAL connector on the back of the instrument.
- **2.** Go to this page, and touch the "Calibration" button in the display. The following dialog box appears:



**3.** You are asked to set the pedal to the maximum value. Press the footswitch, or press the pedal to the maximum position (usually front pressed).

**4.** Touch the "Push" button in the display to confirm the maximum value. The following dialog box appears:



- **5.** You are now asked to set the pedal to the minimum value. Release the footswitch, or press the pedal to the minimum position (usually back pressed).
- **6.** Touch the "Push" button in the display to confirm the minimum value.
- **7.** Check if the pedal or footswitch is working properly, and assign it a function.

**Note:** After loading a new Operating System, an older Global file, a "SET" folder containing a Global file, or a Backup file, you might need to re-calibrate the pedal/footswitch.

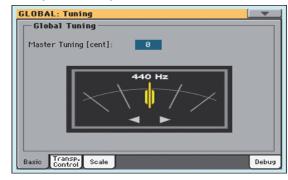
#### Damper

#### Calibration

Use this button to calibrate the action of the Damper pedal, and set its polarity. See above for details about the procedure.

## **Tuning > Basic**

This is the general tuning of the instrument.



#### **Global Tuning**

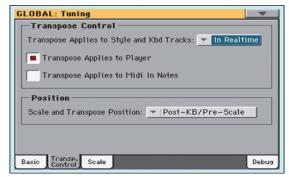
#### **Master Tuning**

This is the master tuning of the instrument (in cents of a semitone). Use it to adapt your keyboard tuning to an acoustic instrument, for example an acoustic piano.

-100	Lowest pitch (half-semitone down).
0	Standard pitch (A4=440Hz).
+100	Highest pitch (half-semitone up).

## **Tuning > Transpose Control**

This page is where you can select to which tracks the Master Transpose is applied to, and adjust some related parameter.



#### **Transpose Control**

In Sync

#### **Transpose applies to Style and Kbd tracks**

Use this parameter to turn the Master Transpose on or off, and define the way it is applied, to Style and Keyboard tracks.

Off	No Master Transpose is applied to Style and Key-
	board tracks. Chords shown in the Lyrics page are, however, transposed.

When you press either the TRANSPOSE [ ] or [ ] buttons, the new transpose setting will not take effect until the first beat of the next measure is reached.

In Realtime ~ When you press either the TRANSPOSE [  ${\ensuremath{\flat}}$  ] or

[#] buttons, the new transpose setting will occur when the next note is played for both the Style and Keyboard tracks individually.

The next key or chord you press will sound with the new transpose setting applied. (Note that if you play a Keyboard track prior to a new chord, the Keyboard track will play in the new key as the Style will continue to play in the old key until a new chord is entered).

#### **Transpose applies to Player**

This checkbox lets you turn the Master Transpose on or off for the onboard Players.

#### Transpose applies to Midi In notes

This checkbox lets you turn the Master Transpose on or off for Note messages received from MIDI IN.

#### Position

#### **Scale and Transpose position**

The Scale and Transpose Position allows you to define the relation between the Scale and the Master Transpose.

#### Post-KB/Pre-Scale

When this option is selected, notes will be transposed immediately after they leave the keyboard. The Scale will be applied to the transposed notes. For example, if you altered an E, and then set the Master Transpose to +1, the E key will play F, and

the altered key will be  $E \not b$  (that will play an altered E).



Post-KB & Scale

When this option is selected, all notes are transposed immediately before they enter the internal tone generator, or are sent to the MIDI OUT, but after the Scale. For example, if you altered an E, and set the Master Transpose to +1, the altered key will still be E (that will play an altered F).



#### Standard MIDI File and chord transpose

When changing the Master Transpose, chord abbreviations contained in a Standard MIDI File are transposed and correctly shown in the display. Master Transpose must be activated on the Players, but not on the Keyboard.

GLOBAL: Tuning
Transpose Control
Transpose Applies to Style and Kbd Tracks: 💌 Off
Transpose Applies to Player
Transpose Applies to Midi In Notes
Position
Scale and Transpose Position:   Post-KB/Pre-Scale
Basic Transp. Scale

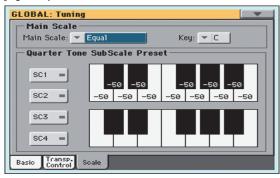
**Note:** Chords contained in a linked TXT file or shown in a a CDG file are not transposed.

#### **Drum Kits and transpose**

Drum Kits are never transposed. If you want that any Sound is not transposed as well, assign them to a track set to the Drum mode in Style Play/Song Play > Track Control > Mode (see "Type" on page 124).

## **Tuning > Scale**

This page lets you select the main scale of the instrument.



#### **Main Scale**

#### **Main Scale**

This parameter lets you set the main scale for the whole instrument, apart for those tracks where a different sub-scale has been selected by a Performance or STS (see "Scale" on page 121, Style Play mode).

See "Scales" on page 439 for a list of the available scales.

Note: You cannot select a User scale in Global mode.

#### Key

This parameter is needed by some scales to set the preferred key.

#### **User Quarter Tone SubScale**

This section is where you can program the Quarter Tone scale, and save up to four Quarter Tone Scale (SC) Presets.

#### **SC Preset buttons**

Touch these buttons to recall the corresponding presets. Each preset contains a custom detuning of each note of the scale (shown in the upper scale diagram). It also memorizes the selected degree(s) of the scale (shown in the lower scale diagram).

When no preset is selected, the default scale is automatically recalled. This scale assigns a -50 cent value to all notes, and turns all scale degrees off.

You can also select an SC Preset by assigning the relevant function to an Assignable Switch or Assignable Footswitch.

To save the current scale programming to a preset, while in this page choose the "Write Quarter Tone SC Preset" command from the page menu, then select one of the preset locations where to save the current settings (see "Write Quarter Tone SC Preset" on page 280).

#### Upper scale diagram

Use this diagram to set the detuning of each note of the scale.

-99...0...+99 Note detuning in cents. Zero is no detuning, ±50 is a full quarter tone up or down, ±99 is nearly one whole semitone up or down.

#### Lower scale diagram

Use this scale to turn detuning on or off. Applied detuning will depend on the programming set with the Upper scale diagram, or recalled by selecting one of the SC Presets.

When a note is detuned, a black dot appears in the corresponding note of the diagram.

## **MIDI > General Controls**

This page allows you to select a MIDI Preset and set global parameters for the MIDI communication.

GLOBAL: Midi Midi Preset ——	
Preset: 💌 01 [	Default
General Controls-	
Clock Send	Clock Source: 💌 Internal
	_
Local Control On	Note to RX Noise
General Midi In Midi In Controls Control Channel	Midi Out Channel Filters

#### **MIDI Preset**

#### Preset

MIDI channels can be automatically configured by selecting a MIDI Preset. Each of them lets you automatically assign a value to various MIDI parameters, to allow an easier connection with a particular MIDI controller.

For detailed information about the preloaded MIDI Presets, see "MIDI Preset" on page 445.

After selecting a MIDI Preset, you can apply any changes to each channel's settings. To store the changes in memory, select the "Write Midi Preset" command in the page menu to save it to memory (see "Write Midi Preset dialog box" on page 281).

**Hint:** You can restore the original MIDI Presets by using the "Factory Restore" command and choosing the "Global" option (page "Utility" of the Media mode, see page 297). Please consider this will reset all the Global data.

#### **General Controls**

Use these parameters to set MIDI Clock and Local Off.

See "Installing the Korg USB MIDI Driver" on page 446 for information on how to configure your computer for MIDI Over USB communication.

#### **Clock Send**

Use this parameter to turn the clock information on the MIDI OUT or USB Device port on or off.

*Note:* This parameter is automatically set to On when the instrument enters standby.

- Off The Pa3XLe does not send the MIDI Clock signal. You cannot slave another instrument to the Pa3XLe, even when connected to the MIDI OUT or USB Device port.
- On The Pa3XLe sends the MIDI Clock signal. You can slave another instrument to the Pa3XLe Tempo, Start/Stop and Play/Stop commands. Connect the other instrument to the Pa3XLe MIDI OUT or USB Device port.

#### **Clock Source**

This parameter selects the MIDI Clock source for the Style Play and Sequencer modes.

Note: In Song Play mode, the Internal clock is always used.

**Note:** This parameter is always set to "Internal" when the instrument enters standby.

- Internal Internal, i.e. the clock generated by the Pa3XLe Arranger and Player internal metronome.
- External MIDI External from the MIDI IN port. In Style Play or Sequencer mode, the Pa3XLe is slaved to an external device connected to its MIDI IN port. The Start/Stop and Play/Stop commands, as well as the metronome tempo, cannot be selected from the control panel of the Pa3XLe. Use the external device to set the tempo and start or stop the sequencer or arranger.

External USB As the above, but referred to the USB Device port.

#### **Local Control On**

The Local parameter connects or disconnects the keyboard from the internal sound generator.

**Note:** This parameter is automatically set to On when the instrument enters standby.

- On When you play the keyboard, MIDI data is sent to the internal sound generator. If tracks are assigned to a MIDI OUT channel, data is also sent to the MIDI OUT or USB Device port.
- Off The keyboard is connected to the MIDI OUT or USB Device port, but doesn't play the internal sound generator.

This is very useful when working with an external sequencer, to send notes and various MIDI messages from the integrated keyboard and controllers to the external sequencer, and then let the sequencer send them back to the sound generator, without overlapping. See the MIDI chapter.

#### Note to RX Noise

RX Noises allow for Sounds to be more realistic. They are usually located above C7, depending on the Sound.

When this parameter is turned on, notes received from MIDI, or performed by the internal Player, in the RX Noises range, are recognized and converted to RX Noises. When off, notes are not recognized.

**Note:** This parameter is automatically turned on when the instrument is set to standby.

## MIDI > MIDI In Controls

This page lets you program parameters for the MIDI IN and USB Device port, like the Chord Recognition channel. All these parameters can be saved into a MIDI Preset.

GLOBAL: Midi		
⊢ Midi In Controls		
Midi In Octave Tr	anspos	e 🦳 Track Mute Active
Chord 1 Midi Channel	Off	Upper Trk Octave Transp.: Ø
Chord 2 Midi Channel	: Off	Lower Trk Octave Transp.: 0
Midi In Velocity Value: Normal		
- Yoice Processor Midi Controls		
Midi In Channel:	5	In Note Range-High: G9
Octave Transp. In:	0	In Note Range-Low: C-1
General Midi In Midi In Midi Out Controls Control Channel Channel Filters		

#### Midi In Controls

#### Midi In Octave Transpose

Use this parameter to determine if notes received on the MIDI IN or USB Device ports have to be transposed.

- On Notes received on the MIDI IN or USB Device port are transposed according to the Octave Transpose setting for each track.
- Off Data received on the MIDI IN or USB Device port are not transposed.

#### **Track Mute Active**

Use this parameter to determine if data received on the MIDI IN or USB Device port can be played by muted tracks.

- OnNo data received on the MIDI IN or USB Device<br/>port can play on a muted track.OffData received on the MIDI IN or USB Device
- port can play on a muted track.

#### Chord 1 Midi Channel Chord 2 Midi Channel

Notes entering these channels on the MIDI IN or USB Device port, are sent to the Arranger.

There are two separate Chord channels. This is very useful when you have to send chords to Pa3XLe over two different channels (something very common on MIDI accordions).

- Off Data received on the MIDI IN or USB Device port are not sent to the Arranger.
- 1...16 Data received on these channels via the MIDI IN or USB Device port are sent to the Arranger.

#### **Upper Octave Transp (Transpose)**

Octave transposition of data received on the MIDI IN or USB Device port for the Upper tracks. For example, if you select the +1 value, a C4 received via MIDI will play a C5 on the Pa3XLe.

This parameter may be useful to many MIDI accordion players, whose MIDI interface may transmit on an unexpected octave.

-2...+2 Octave transpose value.

#### Lower Octave Transp (Transpose)

Octave transposition of data received on the MIDI IN or USB Device port for the Lower track. For example, if you select the +1 value, a C4 received via MIDI will play a C5 on the Pa3XLe.

This parameter may be useful to many MIDI accordion players, whose MIDI interface may transmit on an unexpected octave.

-2...+2 Octave transpose value.

#### Midi In Velocity Value

Use this parameter to set a fixed velocity (dynamics) value for all received MIDI notes. This is useful when playing the Pa3XLe with an organ or a MIDI Accordion.

Normal Received velocity values are left unchanged.

40...127 All received velocity values are converted to the selected value.

#### **Voice Processor Midi controls**

#### Midi In Channel

Notes received on this channel are sent to the Harmony section of the Voice Processor.

Off No data is sent to the Voice Processor.

1...16 Data received on this channel via the MIDI IN or USB Device port is sent to the Voice Processor.

#### **Octave Transpose In**

Octave transpose for all notes received via MIDI by the Harmony section of the Voice Processor.

-2...+2 Octave transpose value.

#### In Note Range-High

This is the highest note that can be received by the Harmony section of the Voice Processor. Notes received over this note are not recognized.

B-1...G9 Highest note.

#### In Note Range-Low

This is the lowest note that can be received by the Harmony section of the Voice Processor. Notes received under this note are not recognized.

C-1...G#8 Lowest note.

## **MIDI > MIDI In Channels**

In this page, you can assign Pa3XLe tracks to any of the MIDI channels received on the MIDI IN and USB Device ports. All these parameters can be saved into a MIDI Preset.

GLOBAL: Midi		
Midi	In Channels ——	
Ch01:	Ply.1 Tr 01	Ch09: 🔻 Ply.1 Tr 09
Ch02:	▼ Ply.1 Tr 02	Ch10: 🔻 Ply.1 Tr 10
Ch03:	▼ Ply.1 Tr 03	Ch11: 💌 Ply.1 Tr 11
Ch04:	▼ Ply.1 Tr 04	Ch12: 💌 Ply.1 Tr 12
Ch05:	▼ Ply.1 Tr 05	Ch13: 💌 Ply.1 Tr 13
Ch06:	▼ Ply.1 Tr 06	Ch14: 🔻 Ply.1 Tr 14
Ch07:	▼ Ply.1 Tr 07	Ch15: 💌 Ply.1 Tr 15
Ch08:	▼ Ply.1 Tr 08	Ch16: 🔻 Ply.1 Tr 16
General Midi In Midi In Channel Filters		

#### Channels

You can assign to each channel one of the following tracks:

Off	No track assigned.	
Lower	Keyboard's Lower track.	
Upper 13	One of the Keyboard's Upper tracks.	
Pad 14	One of the Pad tracks.	
Drum	Style's Drum track.	
Percussion	Style's Percussion track.	
Bass	Style's Bass track.	
Acc 15	One of the Style's Auto-accompaniment tracks.	
Ply 1/2 Tr 01.	16	

One of the Players' tracks.

Global Special channel to simulate the Pa3XLe's integrated controls (keyboard, pedals, joystick) with an external keyboard or controller. MIDI messages coming on this channel are seen as if they were generated by Pa3XLe's integrated controllers.

Control On this special channel, Pa3XLe receives MIDI messages to remotely select Styles, Performances, STS, Style Elements and SongBook Entries.

See tables on page 442 and following for more information on the received data. Also, see "SongBook Entries and the MIDI" on page 309 for SongBook Entry selection.

## MIDI > MIDI Out Channels

In this page, you can assign Pa3XLe tracks to any of the MIDI channels sent to the MIDI OUT and USB Device ports. All these parameters can be saved into a MIDI Preset.

GLOBAL: Midi		
- Midi Out Channels		
Ch01: 🔻 Upper 1	Ch09: 🔻 Off	
Ch02: 💌 Upper 2	Ch10: 🔻 Off	
Ch03: 🔻 Upper 3	Ch11: 🔻 Off	
Ch04: 💌 Lower	Ch12: 🔻 Off	
Ch05: 🔻 Off	Ch13: 🔻 Off	
Ch06: 🔻 Off	Ch14: 🔻 Off	
Ch07: 🔻 Off	Ch15: 🔻 Off	
Ch08: 🔻 Off	Ch16: 🔻 Off	
Setup Midi In Midi In Midi Out Filters		

#### Channels

You can assign to each channel one of the following tracks:

Off	No track assigned.
Lower	Keyboard's Lower track.
Upper 13	One of the Keyboard's Upper tracks.
Pad 14	One of the Pad tracks.
Drum	Style's Drum track.
Percussion	Style's Percussion track.
Bass	Style's Bass track.
Acc 15	One of the Style's Auto-accompaniment tracks.
Ply 1/2 Tr 01.	16

One of the Players' tracks.

- Chord Use this channel to send notes recognized by the Chord Recognition engine to the MIDI OUT and USB Device port. This is useful, for example, to control an external Harmonizer from the Pa3XLe, using the Lower track to play chords, even if the track is muted.
- Control On this special channel, MIDI messages are sent when choosing a SongBook Entry. See "Song-Book Entries and the MIDI" on page 309.

## **MIDI > Filters**

Use this page to set up to 8 filters for the MIDI data received or sent by the Pa3XLe on the MIDI and USB Device ports. All these parameters can be saved into a MIDI Preset.

GLOBAL: Midi	
Midi In Filters	Midi Out Filters
1: 🔻 Off	1: 🔻 Off
2: 🔻 Off	2: 🔻 Off
3: ▼ 0ff	3: ▼ 0ff
4: ▼ 0ff	4: ▼ 0ff
5: 💌 Off	5: 🔻 Off
6: ▼ 0ff	6: ▼ 0ff
7: ▼ 0ff	7: ▼ 0ff
8: 🔻 Off	8: 🔻 Off
Setup Midi In Midi In Midi Out Gen.Ctl Control Channel Channel	Filters

#### **Midi In Filters**

Selected MIDI IN filters. Filters are applied to all MIDI channels at the same time.

Off	No filter.
Pitch Bend	Pitch Bend.
MonoTouch	Mono (or Channel) After Touch.
PolyTouch	Poly After Touch.
PrgChange	Program Change.
SysExcl	System Exclusive.
All CC	All Control Change messages.
0127	Control Change message #0127. See "MIDI Data" on page 442 for a list of available Control Change messages.
Notes	Note events.

#### **Midi Out Filters**

Selected MIDI OUT filters. See above for information on each filter type.

## Audio & Video > MP3 / Speakers

This page lets you define various parameters for the MP3 player and the speakers.

GLOBAL: Audio & Eq	<b></b>
MP3 Player	
Volume: 60	
Speakers	
On	
MP3 Speaker Limiter Fo	
Speakrs, Limiter EQ	

#### **MP3 Player**

#### Volume

Use this parameter to set the maximum volume for the MP3 Player. This control lets you balance MP3 files against SMF Songs and Styles.

0...100 Max volume in percentage.

#### **Speakers**

#### Speakers On/Off

Use this checkbox to turn the (optional) integrated speakers on or off. The speakers can be installed by adding the (optional) PaAS – Amplification System.

## Audio & Video > Limiter

The Limiter allows for an increased loudness of the MIDI tracks (Styles and Songs), by compressing the signal exceeding a defined threshold. MP3 files are not affected by the Limiter (since they are usually already "produced", and do not need to pass through the Limiter again).

All these parameters can be saved into a Limiter Preset,

#### **Limiter Preset**

Use this pop-up menu to choose one of the available Limiter Presets, and automatically reconfigure the EQ parameters.

#### On/Off

This is the on/off switch for the Limiter section.

#### Ratio

Sets the signal compression ratio. Compression is applied only when the signal level exceeds the Threshold value. 1.0:1 means no compression.

#### Threshold

Sets the level above which compression is applied. 0dB means no signal processed.

#### Attack

Sets the attack time. A higher attack time will cause the compression to be applied more slowly, and not react fast enough for notes with faster transients.

#### Release

Sets the release time. A higher release time will cause the compression to be released more slowly; this may help sustaining longer notes.

#### **Gain Adjust**

Sets the output gain. Use it to compensate for the gain loss caused by compression.

#### Diagram

Use these indicators to check the level of the audio entering and coming out of the Limiter.

• If the input level is too high, decrease the level of the Sounds, Styles and/or Songs that are playing.

• If the output level is too high, decrease the level of the "Gain Adjust" control.

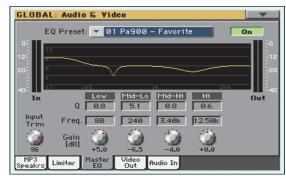
• Look at the gain reduction indicator, to understand the amount of limiting going on. Excessive limiting may dramatically change the quality of the musical program.

## Audio & Video > Master EQ

In this page you can access the fully parametric Master EQ. This EQ is placed at the end of the audio path, just before the various audio outputs (Audio Outs, Phones, integrated speakers). Both MIDI tracks (Styles and Songs) and MP3 files are equalized.

This is a full spectrum frequency equalization, that gives you the power to design EQ curves and shape your sound. Master EQ features four fully programmable bands with fully adjustable gain, frequency, and Q parameters.

All these parameters can be saved into a Master EQ Preset.



#### **EQ Preset**

Use this pop-up menu to choose one of the available EQ Presets, and automatically reconfigure the EQ parameters.

#### On/Off

This is the on/off switch for the EQ section.

#### Diagram

Use these indicators to check the EQ curve, and the level of the audio entering and coming out of the Master EQ.

• If the input level is too high, decrease the level of the "Input Trim" parameter.

• If the output level is too high, decrease the level of the "Gain" controls.

• Keep in mind that boosting the Gain is not always the best way of making your sound appear louder; cutting the Gain of some band may make the other bands appear louder.

#### Input Trim

Use this knob to adjust the level of the signal entering the EQ. Excessive amount of signal may cause distortion when boosting the EQ bands.

Trim	Value
Level	0100

#### Q

'Quality' of the EQ filter; higher values correspond to narrower, more accurate filters. Use higher values for near-surgical correction on isolated frequencies, lower values for more musical, softer equalization.

Band	Value
All Bands	0.510

#### Freq

Center frequency of the corresponding band. Center it on the problematic frequency, or the harmonics you want to emphasize or attenuate.

Band	Value
Low	20Hz1kHz
Mid-Low	50Hz10kHz
Mid-High	300Hz10kHz
High	500Hz20kHz

#### Gain

Gain of the corresponding band. Use it to make the frequencies stronger or weaker.

Band	Value
All Bands	-180+18dB

## Audio & Video > Video Out

Use this page to adjust the Video Out parameters.

GLOBAL: Audio & Yideo	
Yideo Out	
System: PAL	
Colors: 💌 1	
External Video: 💌 Text Only	
MD2	
MP3 Speakrs Limiter BQ Out Audio In	

#### System

Selects the video standard (PAL or NTSC).

- PAL Used in most European, South American, Asian and African Countries. This setting can be used also with SECAM TV sets (used in France, Russia, and some Countries of Africa); in this latter case, however, the picture is shown in black & white.
- NTSC Used in North America, Central America and part of South America. It is also used in Japan, Korea, Taiwan, Philippines and Burma.

#### Colors

Selects a color set for the lyrics and background.

1...5 Color set. Try them to find the one you feel most comfortable with.

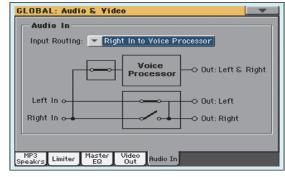
#### **External Video**

*Reset to Text Only at startup.* Use this parameter to decide what to show in the monitor connected to the Video Out port.

- Text Only Only Lyrics and Chords (if any) are shown in the external display.
- Mirror The internal display of Pa3XLe is duplicated ("mirrored") to the external display.

## Audio & Video > Audio In

This page lets you route the Audio Inputs to the Voice Processor and/or the audio outputs.





GLOBAL: Audio & Yideo 🛛 🔍				
- Audio In				
Input Routing: 🔻 Audio In to Direct Out				
Voice Out: Left & Right				
Processor Processor				
Left In o				
Right In o				
MP3 Speakrs Limiter EQ Out Audio In				

Microphone off, L-R Line In

#### **Input Routing**

Use this pop-up menu to choose the routing of the Audio Input signals.

Right In to Voice Processor

The *Right* audio input goes to the Voice Processor, then to the audio outputs. The *Left* audio signal is replicated on both Audio Outs. Both inputs are recorded when recording an MP3 Song.

Audio In to Direct Out

The *Left and Right* audio inputs go to the final mix, together with the sounds generated by Pa3XLe. No Voice Processor effect is applied.

## Mic > Preset

The Voice Processor applies effects and three-part harmony to your voice. The dedicated controllers in the MIC SETTING section on the control panel allows you to quickly access the most often used functions.

In addition, in these pages you can edit the various effects and harmony styles, and save them into a Voice Processor Preset (VP Preset). With the latest two pages, you can edit the general settings for the singer's voice.

This page allows you to select a VP Preset, as well as turning on or off the various Voice Processor modules.



#### Preset

#### **Current Voice Processor Preset**

Use this parameter to select a Voice Processor Preset. A VP Preset is the programming of all Voice Processor's harmony and effect parameters. The Current Voice Processor Preset is the VP Preset that is currently selected and can be edited.

A VP Preset can be recalled by a Style, a Performance, a Song-Book Entry, or can be manually selected by pressing the PRESET button in the MIC SETTING on the control panel. This Preset is alternative to the Global VP Preset (see "Global Voice Processor Preset" on page 275) that is used when no selection is saved in a Style, Performance or SongBook Entry.

If you wish to save your VP Preset settings, keep the PRESET button pressed for about one second, or select the "Write Voice Processor Preset" command from the page menu (see page 280). The saved Preset will appear in the list of the available Presets.

#### **Harmony Voices On/Off**

These are "switches" for the voices generated by the Harmony section.

#### V1...V3

These checkboxes allow turning each of the three Harmony Voices on or off.

This is the same as the "Voice On/Off" checkbox in the "Mic > Harmony Voices" page (see page 273).

#### Master On/Off

These are "switches" for the various Voice Processor sections.

#### Lead

This checkbox allows turning the Lead voice on or off. This is useful in creating Presets where you want to hear harmony voices only.

#### Harmony

This checkbox allows the enabling/disabling of the Harmony module.

#### Effects

This checkbox allows the enabling/disabling of the Voice Processor Effects module.

## Mic > Harmony

In this page you can define general parameters for the Harmony module.

Harmony				
Harmony On/Off	<pre> <no chord=""></no></pre>			
Harmony Mode: 💌 Chord Root	t: 🔻 C 🛛 Type: 🔽			
PB Assign: 🔻 Pitch	- Harm, Yoices Env.			
Note Octave Transpose: 0 Attack: 0				
Portamento [ms]: 10	Release: Ø			
Harmony Note Input	Level			
Source: Chord Scan.				
Song Control: Keyboard -3 dB				

#### Harmony

#### Harmony On/Off

This checkbox allows enabling/disabling of the Harmony module. It is the same control found in the "Preset" page.

#### **Harmony Mode**

This parameter changes the Preset's harmony mode. The available options are: Scalic, Chord, Shift, and Notes. See "Harmony and Tuning with the Voice Processor" on page 276 for a full description of each harmony mode.

#### Root

(Only available in Scalic mode). In Scalic presets this sets the scale root.

#### Туре

In Scalic presets this sets the scale type. If the selected type is Custom, a Custom Map can be used (see "Custom Voice Mapping" on page 273).

#### **PB** Assign

Pitch Bend control assignment. Allows assignment of the pitch bend to Pitch (applicable in Notes and Chord harmony modes).

**Note:** For this to work, a value other than zero must be assigned to the "Pitch Bend Range" in the "Mic > Global Setup" page (see page 275).

#### **Note Octave Transpose**

This transposes the harmony voices in Notes mode; the value corresponds to octaves ( $\pm 4$ ). When receiving notes from MIDI, this value is summed to the value of the "Octave Transpose In" parameter, found in the "MIDI > MIDI In Controls" page (see page 265).

This is useful when used in conjunction with the "In Note Range-High" and "In Note Range-Low" parameters, also found in the "MIDI > MIDI In Controls" page, that limit the note input to a particular range, that could result too low or too high for the harmony notes (see page 266).

#### Portamento

This is defined in milliseconds as the time to reach a target note when a harmony voice needs to change pitch.

#### **Harmony Voices Envelope**

The envelope lets you set a different Attack and Release time for the harmony voices.

Note: The envelope can only work in Notes mode.

#### Attack

Sets the envelope attack time for harmony voices. Available only in Notes mode.

#### Release

Sets the envelope release time for harmony voices. Available only in Notes mode.

#### **Harmony Note Input**

When the Harmony Mode is Chord, harmony notes are always received from the Chord Scanning area.

When the Harmony Mode is set to Notes, harmony notes can also be received from a source different than the Chord Scanning area. This way, you can continue sending chords to the Arranger with your left hand, while, for example, sending notes to the Harmony module with your right hand.

#### Source

This is the harmony notes source for the Style Play mode. It is the harmony notes source for the Song Play mode, when the "Song Control" parameter is set to Keyboard.

**Note:** When the Harmony Mode is Chord, the Source is always the Chord Scanning area.

*Hint:* To continue playing harmony notes on the keyboard when switching between Style Play and Song Play modes, set Source = Chord Scan, Song Control = Keyboard.

- Chord Scan Notes are received from the same chord scanning area dedicated to the Arranger. For example, if the Lower chord scanning mode is selected on the control panel, harmony notes are received from the Lower area of the keyboard. Notes may be transposed, to play in a more realistic vocal range.
- Lower Notes are received from the Lower area of the keyboard.
- Upper Notes are received from the Upper area of the keyboard.
- Full Keyb. Notes are received from the full range of the keyboard.

#### Song Control

This is the harmony notes source for the Song Play mode.

Off Notes are not received when in Song Play mode.
----------------------------------------------------

Ply 1+2 Track [n]

Notes are received from the selected track from either Player.

Keyboard Notes are received from the Keyboard. The range is the one defined by the "Source" parameter (see above).

#### Level

#### Level knob

Sets the overall harmony voices level.

## Mic > Harmony Voices

The Voice Processor can add up to three Harmony Voices to the Lead voice. Here you can adjust parameters for each individual voice.



#### **Voice Select buttons**

#### V1...V3

Use these buttons to select one of the three available voices for editing.

#### **Individual Voice Basic**

#### Voice On/Off

This checkbox allows enabling/disabling of the selected Harmony Voice. It is the same control found on the "Preset" page.

#### Gender

This parameter sets the formant of the Harmony Voice. Use it to alter the character of the voice ranging from -50 (a big person with a deep voice) to 0 (no change) to +50 (mice/alien sound).

#### Voicing

This parameter is used to set the voicing of the selected voice. This parameter means different things depending on the harmony mode of the preset.

#### Scalic Mode Presets

In this mode the Voicing parameter specifies the interval of the harmony note with respect to the input note in the scale. The range of values goes from -8, which is 2 octaves below the input note, to ++8 which is two octaves above the input note. For example, a setting of +3 will result in a harmony voice a third above the input voice, related to the current scale.

#### **Chord Mode Presets**

In this mode the Voicing parameter specifies the relation of the harmony note to the input note with respect to the current chord. In Chord mode presets, the harmony voices are always notes in the chord. A setting of Up1 will result in the harmony voice being the next note above the input voice in the chord. For instance, if the chord was C Major and the input note was an E, an Up1 setting would produce a G harmony voice, just above the input E.

The range of values goes from Down 5 to Unison to Up6. Additional values are Root1 and Root2 which give the root of the recognized chord as the harmony voice, and Bass1 and Bass2 (bass voicing) which give the lowest note received. Root2 and Bass2 are the higher pitch Root and Bass settings.

#### Shift Mode Presets

In this mode the voices are shifted relative to the input note. The values range from -24 semitones to +24 semitones.

#### Notes Mode Presets

In this mode there is no selectable voicing, since harmony voices exactly play received notes.

#### Smooth

Sets how much of the input pitch nuance is applied to the output voice.

#### **Pan/Level**

#### Level knob

Sets the output level of the selected voice. Please note that there is also a master harmony voice level found in the "Harmony" page.

#### Pan knob

Adjusts the pan for the selected voice. L64 (panned fully left) to R63 (panned fully right).

#### **Custom Voice Mapping**

This area is only available in Scalic Mode, when Type is Custom (see "Mic > Harmony" on page 271).

Scale mode harmonies are basically pitch maps. For each input note in a scale you can define a resulting harmony note. The Voice Processor has pre-defined pitch maps for all the offered scale roots, types, and intervals.

The Custom voicing feature allows you to create your own pitch maps. For example, you could define a pitch map so that a C input produces an E output and a D input produces an A output. The best way to work with custom voicing is as follows:

• For a given harmony voice, select the scale root, type, and interval that most closely matches the desired voicing.

• Go to the "Note In" parameter and select the input note that requires a different harmony note.

• Go to the "Note Out" parameter and change the harmony note as desired.

• Select various other input notes and remap as desired. Repeat the above steps for each harmony voice. You can also copy a map from a voice to other voices.

• The custom map can be transposed under the Harmony page by changing the "Root" parameter.

#### Note In

Incoming note.

C... B Original note.

#### Note Out

Resulting note when applying the custom map.

±24 Number of semitones above or under the received note.

UNI	Unison. The same note received on the input is
	sent to the output.
NC	No Change. The harmony voice will keep its pro

NC No Change. The harmony voice will keep its previous pitch until the lead voice pitch changes to a non "NC" note.

#### Copy to... button

Use this button to copy the current custom map to other voices. When you touch the button, the Copy Custom Voice Mapping dialog box appears:

Cor	by Custom Yoice Mapping
From	Voice 1
	Voice 1
То	Voice 2
	Voice 3
Canc	el OK

Check all desired target voices, then touch OK to confirm the copy.

## Mic > Effects

This page allows to adjust the various effect parameters for the Voice Processor.



#### **FX Mix**

#### Lead to Delay knob

Lead to Delay effects send.

#### Harmony to Delay knob

Harmony to Delay effects send.

#### **Reverb Level knob**

Sets the overall volume of the Reverb effect.

#### FX Level knob

Sets the overall volume of the Delay effect.

#### Delay

#### Туре

Use this parameter to select a Delay type.

Mono	Mono delay.
Stereo	Maintains the panning of the sends.
PingPong1	Sends the lead voice to the left effect end only.
PingPong2	Sends the lead voice to the sends depending on the lead pan setting.

#### Delay

*Only available when* Src = Manual (see below). Use this parameter to fine adjust (in milliseconds) the current delay time.

#### Feedback

Delay feedback amount.

#### Src (Source)

Use this parameter to set the source of the tempo for the delay.

MIDI Tempo is received from MIDI.

Manual The delay time is set using the "Delay" parameter.

#### R (Ratio)

Sets the ratio between the tempo and the resulting delay. For example, "1:2" means that for each quarter note at the current tempo, the delay plays two notes. A value of "1:4" means that for each quarter note at the current tempo, the delay plays four notes, and so on.

#### Hi Freq Damp (High Frequency Damping)

High Frequency Damping.

#### **Reverb**

#### Туре

The list of reverb types includes the following acoustic simulations.

Hall	Smooth Hall
Wet Plate	Dry Plate
Room	Bright Room
Early Reflections	

#### **Pre Delay**

Reverb Pre-delay time. Sets the delay time prior to the reverb output. Large rooms typically have reverbs that start much later than the initial signal.

#### **Reverb Time**

Reverb Decay Time. Length or the Reverb.

#### **Pre LEQ Gain**

Reverb pre-equalization of the low frequencies. Specifies the characteristics of the reverbs low frequencies.

#### **Pre HEQ Gain**

Reverb pre-equalization of the high frequencies. Specifies the characteristics of the reverbs high frequencies.

## Mic > Global Setup

In this page you can select a Voice Processor Preset, and set some general parameters for your voice. These parameters are general setting, that will not change when a different Preset is selected.



#### Setup

#### **Global Voice Processor Preset**

This VP Preset will be chosen when selecting a Performance or STS making use of the global VP Preset, instead of a "local" one. The use of a global VP Preset is shown in the Mic panel of the main screen.

#### **Lead Setting**

#### Low Cut Frequency

A low-cut filter can be activated on the Lead Voice. This filter allows for a cleaner signal from the microphone, by "cutting out" pops, room rumble and mic handling noise.

Off No low-cut filter applied.

60, 80, 120Hz Filter set to different frequencies. The frequencies below the set value are cut out.

#### **Pan/Volume**

#### Pan knob

Adjusts panning for the Lead voice. L64 (panned fully left) to R63 (panned fully right).

#### Level knob

This parameter sets the Lead voice level.

Off Lead voice is turned off.

-30dB ... 0dB Lead voice level.

#### **Harmony Settings**

#### **Pitch Bend Range**

Sets the range (in semitones) that pitch bend will alter the pitch of the harmonies in Notes mode.

#### Talk

The Talk function can be used when having to address the audience, speaking over the background music.

#### Mic Talk button

On/off switch for the Talk function. This is the same switch you can find in the Mic panel of the Style Play and Song Play modes.

*This parameter is automatically set to off when turning the instrument on.* 

**Note:** When you deactivate the Talk function, the Voice Processor Preset is recalled. Any unsaved change to the Preset will be lost.

#### Auto (AutoTalk)

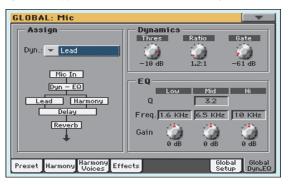
When this parameter is checked, the Talk function automatically engages when the Player or Arranger is stopped. This way, you can talk to the audience between two songs, without the need to touch the Mic Talk button.

#### **Master Volume Attenuation knob**

Use this knob to set the volume level reduction of the background music when the Talk function is engaged. 0dB corresponds to no level reduction.

## Mic > Global Dynamics / EQ

In this page you can adjust parameters for the Compressor/Gate and Equalizer, applied to the Lead and Harmony voices.



#### Assign

#### Dyn

Compressor/Gate assignment. The options are Off, Lead + Harmony, Harmony or Lead. The compressor has auto-makeup gain, so there are no output levels problems when selecting a different option.

#### **Dynamics**

The Voice Processor has dynamics processing optimized for vocals.

#### Threshold knob

Compressor Threshold. Range: 0 to -60 dB.

#### Ratio knob

Compression ratio. Range: 1.1:1 to 64:1.

#### Gate knob

Gate Threshold. Range: Off, -70dB to 0dB

#### EQ

The Voice Processor has an extremely flexible 3-band EQ with frequency and gain-adjustable high and low shelving bands, as well as a fully parametric band with Q control.

#### Low Frequency

Low Shelving Frequency center frequency. Range: 80Hz...16kHz.

#### Low Gain knob

Low Shelving Frequency cut/boost. Range: ±12 dB.

#### Mid Q knob

Resonance of the midband. Range is .1 (wide band) to 10 (very narrow band).

#### **Mid Frequency**

Mid Band Frequency center frequency. Range: 80Hz...16kHz.

#### Mid Gain knob

Mid Band Frequency cut/boost. Range: ±12 dB.

#### **High Frequency**

High Shelving Frequency center frequency. Range: 80Hz...16kHz.

#### High Gain knob

High Shelving Frequency cut/boost. Range: ±12 dB.

## Harmony and Tuning with the Voice Processor

#### Harmony

Here's where we can go into a little more depth about harmonies. We've tried to keep it practical, focusing on what Voice Processor can do for you.

#### **Harmony Modes**

The Voice Processor has four different harmony modes, which give four unique methods of creating harmony. Once we get into describing the more complex harmony modes, we'll be showing you examples based on the C major scale. If you are unfamiliar with this scale we've shown C major here.



#### **Notes Mode**

In this mode, you provide the Voice Processor with specific note information to determine the pitch of the harmony voices. This is the most direct and flexible way of creating harmonies, allowing you to weave complex melodies and counter harmonies irrespective of your lead vocal.

#### Shift Mode

Also known as "Fixed Interval", this takes the pitch of your lead voice and creates harmonies a set number of semitones away, based on that pitch. The method of creating harmonies, using a fixed number of semitones relative to an input note or pitch, is called chromatic harmony, the theory of which we'll go into later. We consider this type of harmonizing to be non-intelligent because Voice Processor is not set to any particular key or scale. These are pure, parallel harmonies. The most common shift harmony voices are the 5th (7 semitones) and octave (12 semitones), ranging from two octaves below the input to two octaves above the input pitch.

Below is the C Major scale, showing third above chromatic scale harmony, as used in Voice Processor Shift Mode.



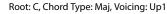
Black = Lead, Grey = Harmony

#### Chord (Chordal) Mode

Chordal harmonies take your chord information to create intelligent, diatonic harmonies based on your voice. To make Chordal harmonies, you need to input in real time the chords of the song. This may be done either by playing on the keyboard, via MIDI or through a programmed sequence of chords included in the Harmony Track of a Song.

In Chordal mode the Voice Processor will only create harmony voices that fall on the notes of the chord. Chordal harmonies are "intelligent" because they decipher the chord you're playing and the note you're singing to produce musically pleasing harmonies. When one note above is defined as a harmony voice (Up1), the next note from the chord above the input note is output for that harmony voice.

The subsequent illustration shows the harmony notes for the C major scale with a voicing selection of a C major chord and a single "one above".





Black = Lead & Grey = Harmony

You might have noticed that each harmony note can cover more than one input note, or that each input note doesn't necessarily have a unique harmony note. For instance, C and D both have E as the 3rd above, E and F share G, and so on. This gives a more stepped sound to the harmony as the changes are both greater in magnitude and less frequent than when using other harmony methods (shift mode for example). The benefit of this method is that it is very easy to integrate vocal harmonies into your songs if you already know their chord progressions! The following lists the chords available with respect to the root of "C":

Major	С	E	G	
6	С	E	G	A
Maj7	С	E	G	В
M7sus4	С	F	G	В
min	С	Eb	G	
min6	С	Eb	G	A
min7	С	Eb	G	Bb
min7b5	С	Eb	Gb	Bb
dim	С	Eb	Gb	[Bbb (= A)]
7	С	E	G	Bb
7b5	С	E	Gb	Bb
aug	С	E	G#	
aug7	С	E	G#	Bb
sus4	С	F	G	
sus2	С	D	G	
7sus4	C	F	G	Bb

#### Scale (Scalic) mode

Harmonies use key and scale information to create musically correct, diatonic harmonies. Most popular music uses a single scale, so you usually only have to input the information at the beginning of your song. "Scalic" harmonies are more dynamic than the chordal harmonies because there are unique harmony notes for each input note. The subsequent illustration shows the harmony notes for the C major scale with a voicing selection of a C major scale and a single "third above" harmony voice. You can see from the next diagram that the "Scalic" harmonies are intelligent and closely follow your lead voice for a tighter sound.



Black = Lead, Grey = Harmony

Under the Harmony page, is a parameter called "Smooth". When set to 100% the harmony voices follow your input pitch, errors and all, but when set to 0% the harmonies will jump directly to the scalic harmony notes, kind of like a hard pitch correction on the harmony voice. Setting the Smooth parameter between 0 and 100% is like having variable amounts of pitch correction on the harmonies. Voice Processor has five preprogrammed harmony scales: three major, three minor and one custom per preset. To create a custom scale or pitch map see the parameter description under "Custom Voice Mapping" on page 273.

It is also tricky to pick out the key in some songs. An example is "Sweet Home Alabama". Listening, you might think this song is in the key of "D", as that's the first chord, but the harmonies actually work best in the key of "G" – try running the song through Voice Processor to hear for yourself.

Setting the scale can also take a bit of practice: for songs centered around the third or root of the scale it might not sound like there's any noticeable differences between the three major or three minor scales. This is because your song doesn't hit any of the scale's altered notes. A melody centered around the fifth of the scale, (such as B in the key of E), highlights the differences between the scales. Try the "Sha Lala Lala ... La Tee Daa" chorus of Van Morrison's "Brown Eyed Girl" (key: E, scale: major, 3rd above voicing) with each major scale to hear the audible difference between them. For the minor scales, Santana's "Evil Ways" (key: G, scale: minor, 3rd above voicing) highlights the differences between the three minor scales.

The following table illustrates the third and fifth above for a given input note to illustrate the differences between the six different scales. "nc" means no change, in that the harmony voice will simply keep its previous pitch until the lead voice pitch changes to a non "nc" note.

	Lead Voice	с	C#	D	Eb	E	F	F#	G	G#	Α	Bb	В
MAJ1	3rd above	E	nc	F	nc	G	А	nc	В	nc	С	D	D
	5th above	G	nc	А	nc	В	С	nc	D	nc	E	F	F
MAJ2	3rd above	E	nc	F	nc	G	А	nc	С	nc	С	D	D
	5th above	G	nc	А	nc	С	С	nc	E	nc	E	F	F
MAJ3	3rd above	E	nc	F	nc	G	A	nc	Bb	nc	C	D	D
	5th above	G	nc	А	nc	Bb	С	nc	D	nc	E	F	F
MIN1	3rd above	Eb	nc	F	G	nc	Ab	nc	Bb	С	nc	D	nc
	5th above	G	nc	Bb	Bb	nc	С	nc	D	Eb	nc	F	nc
MIN2	3rd above	Eb	nc	F	G	nc	A	nc	Bb	С	nc	D	nc
	5th above	G	nc	А	Bb	nc	С	nc	D	Eb	nc	F	nc
MIN3	3rd above	Eb	nc	F	G	nc	Ab	nc	В	С	nc	D	nc
	5th above	G	nc	А	Bb	nc	С	nc	D	Eb	nc	F	nc

#### **Diatonic and Chromatic**

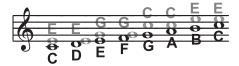
We've described scalic and chordal harmonies as diatonic, and shift harmonies as chromatic; but what do those words mean? Look at a piano keyboard. Between middle "C" and the next "C" there are twelve keys – 7 white keys and 5 black keys. Each of those keys are pitched one semitone apart for a total of, you guessed it, 12 semitones. The chromatic scale uses all twelve semitone notes opposed to the diatonic scales. Thus there is only one chromatic scale, but 12 each of the major, minor, etc. diatonic scales (C major, C# major, D major, etc). Most of us have grown up hearing the traditional "doh ray me fah so la tee doh" diatonic scale, so that harmonies based on the diatonic scale sound correct.

What does this mean, harmony-wise? Diatonic scale harmonies can only use notes within specified scale or chord, so a "third above" harmony voice actually varies between three and four semitones above the lead note where the chromatic harmony would stay exactly four semitones (a major 3rd) above each note.

To recap: we have three different harmony modes that use chromatic or diatonic scales. *Shifting,* which uses the chromatic, 12 semitone scale, changes the input pitch by a fixed number of semitones:

			_	D	Ct	D#	E
		C	Δ		Tel	to.	0
	- II.			0	10)		$\mathbf{O}$
	- Це - II-		0	X	TO		0
0	TICO		0	0	•		
Ă	TO		E	G	A		
× ×		F	<b>-</b>	0			
C	υ						

*Chordal*, which uses the root, third, fifth and sometimes seventh of the many diatonic scales, pitches the harmony voice to the closest note contained within the chord:



*Scalic,* which uses one of many diatonic scales, pitches the harmony voice to the nearest note contained within the scale:

Theory aside, the best way to get great sound is to experiment with all of Voice Processor' possible harmony modes. Not only will you develop an intuitive sonic sense of what works best where, but by investigating different permutations and combinations you could discover some delightful sounds you might otherwise have missed.

## **Touch Panel Calibration**

From time to time (for example, after loading a new operating system), calibrating your Color TouchView[™] display may be necessary to make pointing more precise. If so, use this page.



- 1. When in this page, first touch exactly inside the set of arrows in the upper left corner of the display.
- **2.** The arrows will subsequently move to the other corners of the display. Touch exactly inside them.
- **3.** Finally, touch Save to confirm the new calibration.

Touch Panel Calibration
Now press "Save" to Exit E Press EXIT Button to CRNCELJ
Save

• In case you want to exit and cancel the calibration, press EXIT before completing the procedure.

*Hint:* To quickly reach this page from any other page, keep the GLOBAL button pressed until this page appears.

## Page menu

Touch the page menu icon to open the menu. Touch a command to select it. Touch anywhere in the display to close the menu without selecting a command.

	<b></b>
Write Quarter Tone SC Pr	eset
Write Midi Preset	
Write Limiter Preset	
Write Master EQ Preset	
Write Voice Processor Pro	eset

**Note:** In each Global page, the only available Write Global options from the page menu are the ones relevant to the content of the current page. All other Write Global options are greyed out.

#### Write Quarter Tone SC Preset

Choose this command to open the Write SC Preset dialog box, and save the current scale settings in one of the four available SC Presets.

See "Write Quarter Tone SC Preset dialog box" on page 281 for more information.

#### Write Midi Preset

Select this command to open the Write Midi Preset dialog box, and save the current MIDI settings into one of the available MIDI Presets.

See "Write Midi Preset dialog box" on page 281 for more information.

#### Write Limiter Preset

Choose this command to save the Limiter settings to one of the available Limiter Presets.

See "Write Limiter Preset dialog box" on page 281 for more information.

#### Write Master EQ Preset

Choose this command to save the Master EQ settings to one of the available Master EQ Presets.

See "Write Limiter Preset dialog box" on page 281 for more information.

#### Write Voice Processor Preset

Choose this command to save the Voice Processor settings to one of the available Voice Processor Presets.

See "Write Voice Processor Preset dialog box" on page 282 for more information.

## Write Quarter Tone SC Preset dialog box

Open this dialog box by selecting the Write Quarter Tone SC Preset item from the page menu. Here, you can save the current scale settings in one of the four available SC Presets.

₩rite Quarter Tone Scale Preset
To
SC Preset 1
Cancel OK

#### То

One of the four available SC Preset locations, where to save current scale settings.

## Write Midi Preset dialog box

Open this dialog box by selecting the Write Midi Preset item from the page menu. Here, you can save all MIDI settings to a MIDI Preset.

	Write Midi Preset
Name:	T Default
	То
Midi Preset:	🔻 @1 Default
Canc	el OK

#### Name

Name of the MIDI Preset to be saved. Touch the **T** (Text Edit) button next to the name to open the Text Edit window and modify the name.

#### Midi Preset

One of the available MIDI Preset locations, where to save current MIDI settings.

## Write Limiter Preset dialog box

Open this dialog box by selecting the Write Limiter Preset item from the page menu. Here, you can save current settings for the Limiter edit section (see starting from page 268).

Write Limiter Preset				
Name: T Default				
То				
Limiter : 💌 01 - Default				
Cancel				

#### Name

Name of the Limiter Preset to be saved. Touch the **T** (Text Edit) button next to the name to open the Text Edit window and modify the name.

#### **Limiter Preset**

One of the available locations, where to save current Limiter settings.

## Write Master EQ Preset dialog box

Open this dialog box by selecting the Write Master EQ Preset item from the page menu. Here, you can save current settings for the Master EQ edit section (see starting from page 269).



# Reference

#### Name

Name of the Master EQ Preset to be saved. Touch the **T** (Text Edit) button next to the name to open the Text Edit window and modify the name.

#### Master EQ Preset

One of the available locations, where to save current Master EQ settings.

## Write Voice Processor Preset dialog box

Open this dialog box by keeping the PRESET button in the MIC SETTING section pressed for about one second, or by selecting the Write Voice Processor Preset item from the page menu. Here, you can save current settings for the VP Preset in the Mic edit section (see starting from page 271).

	Write Voice Pres	et
Name:	T Chord 3 Voices	
	То	
Voice Pres	et: Chord 3 Voices	Select
Ca	ncel	ОК

#### Name

Name of the VP Preset to be saved. Touch the **T** (Text Edit) button next to the name to open the Text Edit window and modify the name.

#### **Voice Preset**

One of the available locations, where to save the current VP Preset settings.

## Media

The Media mode is where you can manage files. This mode overlaps the current operating mode (Style Play, Song Play, Sequencer, Sound).

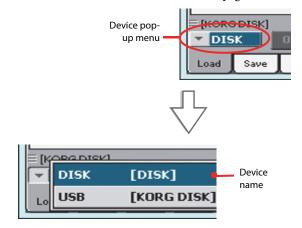
## Storage devices and internal memory

#### **User-accessible storage devices**

During a Media operation, files are usually exchanged between a storage device and the internal memory. You can access the following mass storage device types:

Name	Media type
DISK [KORG DISK]	User-accessible area of the internal memory. This is where you can store Songs and other files.
SD [KORG SD]	Optional microSD card inserted into the rear slot.
SD [KORG SD2]	Optional microSD card inserted into the rear slot (second partition).
USB [DEVICE_LABEL]	USB memory device (like a memory stick) connected to the front USB Host port.

A device can be selected by using the Device pop-up menu, shown in the lower left corner of most Media pages:



## **Supported device**

Pa3XLe supports external devices, like hard disks or USB memory sticks, formatted in FAT16 or FAT32 with long file names. NTSF (Windows NT/2000/XP/Vista/7), HFS (Mac OS 9) and HFS+ (Mac OS X) formats are not supported.

## Selecting and deselecting files

While a file list is shown in the display, you can select any item by touching it. The selected item is highlighted.

You can deselect all items in any of the following ways:

- Touch an empty area in the file list (if available).
- Touch the Device pop-up icon, and select the current device again.

## **Searching files**

By using the Search function, you can search files and musical resources in all internal and external devices. For more information, see the relevant chapter.

## Preferences

You can change some global preferences of the Media mode in the Global > Mode Preferences > Media page (see page 260).

## File types

The following tables describe all the file and folder types the Pa3XLe can manage. Here are the files you can read or write with the Pa3XLe.

Extension	File/folder type
SET	All the User data. (This is a folder containing other folders)
ВКР	Backup file, created with the "Full Resource Backup" function of the Media > Utility page
GBL	Global Setup
VOC	Voice Processor Presets
QTP	Quarter Tone Scale Presets
MPR	MIDI Presets
AUD	Limiter and Master EQ Presets
PRF	Performance
PCG	Sound (Korg Pa-Series)
KMP	Multisample
PCM	Sample
AIF	AIFF audio files
WAV	WAVE audio files
STY	Style
PAD	Pad
SBD	SongBook
SBL	SongBook's Custom List
JBX	Jukebox
MID	Standard MIDI File, SMF
MP3	MP3 file
TXT	Plain text file

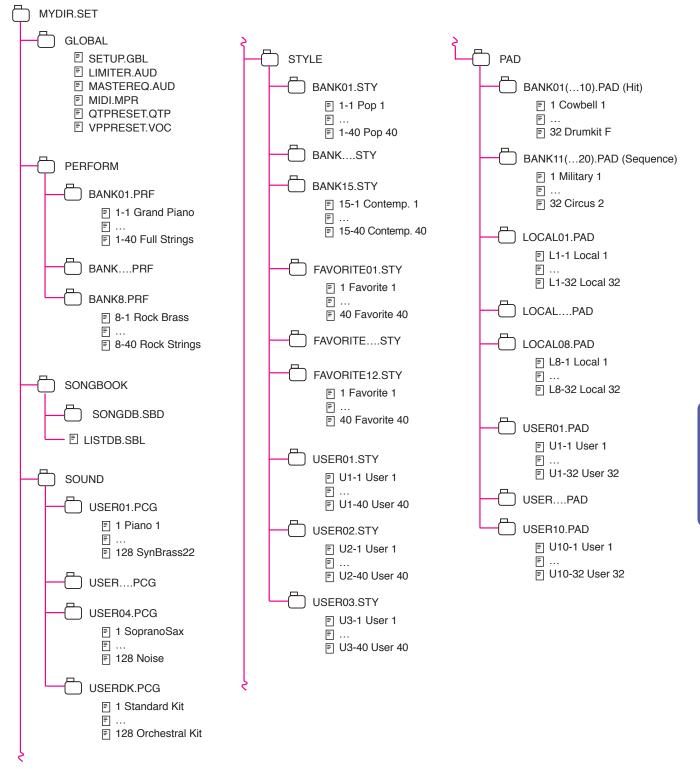
Pa3XLe can also read (but not write) the following types of data.

Extension	File type
PKG	Operating System and Musical Resource files
KAR	Karaoke file
CDG	CD+Graphics file
PCG	Korg Triton Programs
KSF	Korg Trinity/Triton Sample
SF2	SoundFont 2 Bank

# **Media structure**

Each device (and the internal memory) can contain files and folders. Data in the Pa3XLe is slightly more rigidly structured than in a computer, due to the pre-configured type of data inside the instrument's memory. The diagram below shows the global structure of a Pa3XLe device.

**Note:** Factory Styles and Pads can be seen in Media mode only when the "Factory Style and Pad Protect" parameter is set to Off (see page 260), and only when loading or saving a single Style bank, or when erasing something.

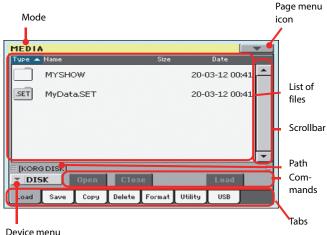


# Main page

There is no main page in the Media mode. When pressing EXIT, you exit the Media mode, and the underlying operating mode in the background is recalled.

# Page structure

All pages share some basic elements.



Device menu

#### Mode

This indicates that the instrument is in Media mode.

#### Page menu icon

Touch this icon to open the page menu (see "Page menu" on page 298).

#### Path

Full path of the directory currently shown in the display.

#### List of files

This area shows the files and folder contained in the selected device.

You can touch one of the heading labels above the list to change the order in which files are shown. For example, by touching the "Name" label, the list is alphabetically re-ordered according to the file names. The selected label appears highlighted, showing the currently selected ordering.

Туре	Name 🔺	Size	Date
	LoveSong.txt	16	25-12-10
JBX	My Jukebox List.JBX	172	20-05-12

If you touch the highlighted label again, the alphabetic order changes from ascending to descending, or vice-versa. The small arrow next to the label name shows the selected order.

#### Scrollbar

Use the scrollbar to scroll the list. Touching the arrows will scroll one step at a time, while touching the bar will scroll one page at a time.

Touching the arrows while SHIFT is kept pressed jumps to the previous or next alphabetical section, or file/folder type (depending on the selected display order).

#### **Device pop-up menu**

Use this menu to select one of the available storage devices.

#### Commands

Commands may be different depending on the shown page. They are detailed in each relevant section.

#### Tabs

Use tabs to select one of the pages of the current section.

# **Navigation tools**

When in a Media page, you can use any of the following commands to browse through the files and folders.

#### Scrollbar

See "Scrollbar" above.

#### VALUE DIAL

Use the VALUE DIAL to scroll the list up or down.

#### Device pop-up menu

See "Device pop-up menu" above.

#### Load/Save/Copy/Delete button

Executes the media operation.

#### **Open button**

Opens the selected folder or directory (whose name begins with

the icon).

#### **Close button**

Closes the current folder or directory, returning to the parent ("upper") level.

# Load

In this page you can load User data files (Performances, User Sounds, User Styles, the SongBook, the Global) from an internal or external storage device to the internal memory.

MEDI	4				
Туре 🔺	Name		Size	Da	ite
	MYSHOW			20-03-:	12 00:41
SET	MyData.S	ЕT		20-03-:	12 00:41
					-
	G DISK]				E
- DI	5K 0p	en Clo	ose		oad
Load	Save C	opy Delete	E Format	Utility	JSB

**Note:** While in this page, only data allowed for loading are shown. All other files are hidden.

# **Merging data**

When loading all User data, or all data of a specified type, most data loaded from a storage device are merged with data already existing in memory. For example, if there is data in all three USER Style banks in memory (USER01, USER02, USER03), and there is only the USER01 Style bank in the storage device, the USER01 bank will be overwritten, while USER02 and USER03 banks will be left unchanged.

As a result, there will be a STYLE folder in memory containing the USER01 bank you just loaded, and the old USER02 and USER03 banks.

# Loading all the User data

You can load all the User data with a single operation.

- **1.** If loading from an external device, connect the device to the USB Host port.
- 2. Use the Device pop-up menu to select the source device. When the device is selected, its content will appear in the display.
- **3.** If the folder you are looking for is inside another folder, select this latter and touch the Open button to open it. Touch the Close button to go back to the parent folder.
- **4.** Select the ".SET" folder containing the data you wish to load, and touch Load to confirm the selection.

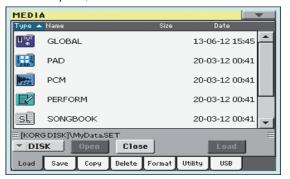
**Warning:** After confirming, all data contained in memory are deleted.

To create a new .SET folder with PCM samples from different sources, see "Merging Samples from various sources" on page 300.

# Loading all data of a specified type

You can load all data of a specified type with a single operation.

- **1.** If loading from an external device, connect the device to the USB Host port.
- 2. Use the Device pop-up menu to select the source device. When the device is selected, its content will appear in the display.
- **3.** If the folder you are looking for is inside another folder, select the latter and touch the Open button to open it. Touch the Close button to go back to the parent folder.
- 4. Select the ".SET" folder containing the data you wish to load, and touch Open to open the ".SET" folder. A list of User data appears (Global, Performance, SongBook, Sounds, Style...).



**5.** Select the folder containing the type of data you are looking for, and touch Load to confirm your selection.

**Warning:** After confirming, all data of the selected type contained in memory are deleted.

### Loading a single bank

You can load a single bank of data (Sounds, Styles, Performances) with a single operation. Each bank corresponds to each of the side tabs in the various Select windows (Style Select, Performance Select...).

- **1.** If loading from an external device, connect the device to the USB Host port.
- 2. Use the Device pop-up menu to select the source device. When the device is selected, its content will appear in the display.
- **3.** If the folder you are looking for is inside another folder, select this latter and touch the Open button to open it. Touch the Close button to go back to the parent folder.
- 4. Select the ".SET" folder containing the data you wish to load, and touch Open to open the ".SET" folder. A list of User data appears (Global, Performance, SongBook, Sounds, Style...).

MEDI	A							
Туре 🔺	Name			Size		Date		
U ^{sŲ€}	GLOBAL				13-0	06-12 15	i:45	-
	PAD				20-0	03-12 00	):41	
PEN	PCM				20-0	03-12 00	):41	
	PERFORM	1			20-0	03-12 00	):41	
SL	SONGBO	ок			20-0	03-12 00	):41	
E [KOR	G DISK]\My	Data.Sl	ET					Ξ
- DI	sk 🛛	pen	Clos	e	1	Load		
Load	Save	Сору	Delete	Format	Utility	USB	J	

**5.** Select the folder containing the type of data you are looking for, and touch Open to open the selected folder. A list of Favorite/User banks appears.

MEDI	A			-	
Туре 🔺	Name	Size	Date		
<u>R</u>	USER01.STY	489K	19-12-10 01:33	-	
RJ	USER02.STY	19K	19-12-10 01:33		
				-	
E [KOR	G DISK]\MyData.SET\STYI	_E		Ξ	
▼ DISK Open Close Load					
Load	Save Copy Delete	Format U	tility USB		

6. Select the bank file you are looking for, and touch Load to confirm the selection. A dialog box appears, asking you to select one of the available User (or Favorite/User Style) banks in memory.

Load	Load		
USER01.STY			
Το			
▼ Usr-User 1			
Cancel OK			

In the example above, the previously selected Style bank will be loaded into the bank USER 1 in memory. The Styles already existing in memory will be deleted and overwritten. **7.** Select the target bank, and touch OK to load the source bank.

*Warning:* After confirming, all data contained in the target bank memory are deleted.

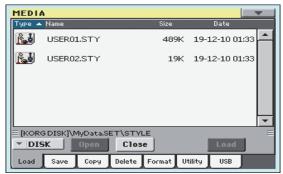
### Loading a single item

You can load a single item with a single operation.

- **1.** If loading from an external device, connect the device to the USB Host port.
- 2. Use the Device pop-up menu to select the source device. When the device is selected, its content will appear in the display.
- **3.** If the folder you are looking for is inside another folder, select this latter and touch the Open button to open it. Touch the Close button to go back to the parent folder.
- 4. Select the ".SET" folder containing the data you wish to load, and touch Open to open the ".SET" folder. A list of User data appears (Global, Performance, SongBook, Sounds, Style...).

MEDI	A			T
Type 🔺	Name	Size	Date	
U ^{sŲ€}	GLOBAL		13-06-12 15:45	-
	PAD		20-03-12 00:41	
PER	PCM		20-03-12 00:41	
	PERFORM		20-03-12 00:41	
SL	SONGBOOK		20-03-12 00:41	•
E [KOR	G DISK]\MyData.SE ⁺	т		Ξ
▼ DI	5K Open	Close	Load	
Load	Save Copy	Delete Format	Utility USB	

**5.** Select the folder containing the type of data you are looking for, and touch Open to open the selected folder. A list of banks appears.



6. Select the bank file you are looking for, and touch Open to open it. A list of items appears.

MEDIA				
Туре 🔺	Name	Size	Date	
<u>r</u> i	01:01 Standard 8 Beat	11K	19-12-10 01:33	*
<u>R</u>	01:02 Standard 16 Beat	13K	19-12-10 01:33	
<u>r</u>	01:03 Rock Cha Cha	23K	19-12-10 01:33	
<u>r</u>	01:04 Cha Cha	24K	19-12-10 01:33	
<u>r</u>	01:05 Salsa	30K	19-12-10 01:33	-
E [KORG DISK]\MyData.SET\STYLE\USER01.STY E DISK Open Close Load				
Load	Save Copy Delete Fo	ormat U	tility USB	

**7.** Select the item you are looking for, and touch Load to confirm the load. A dialog box appears, asking you to select one of the available locations in memory.

Load
Standard 8 Beat
То
Usr01: 01 <empty> Select</empty>
Cancel OK

In the dialog box above, the Style you select from disk will be loaded into location 01 of the bank Usr01 in memory. Any existing Style at the same location will be deleted and overwritten.

Empty locations are named "- - - ".

8. Select the target location, and touch OK to load the source file.

*Warning:* After confirming, the item you are overwriting in memory will be deleted.

# Loading Global data from other Pa-Series instruments

Global data (Global, Voice Processor, Limiter, EQ, etc.) cannot be loaded from other Pa-Series instruments.

### Loading Pa3X data

You can load Pa3X data exactly as if they were Pa3XLe data, apart for the Global data. Sounds and Effects can be a bit different. Due to the different order in memory, Styles must be reassigned to SongBook Entries by using the SongBook Editor software (freely available on www.korg.com).

#### Loading Pa900, Pa600 or Pa300 data

You can load Pa900, Pa600 or Pa300 data exactly as if they were Pa3XLe data, apart for the Global data. Due to the different order in memory, Styles must be reassigned to SongBook Entries by using the SongBook Editor software (freely available on www.korg.com).

### Loading Pa2X, Pa800, Pa1X, Pa500 or Pa588 data

You can load Pa2X, Pa800, Pa1X, Pa500 or Pa588 data exactly as if they were Pa3XLe data, apart for the Global data. Due to the different order in memory, Styles must be reassigned to Song-Book Entries by using the SongBook Editor software (freely available on www.korg.com).

Note: It is not possible to load Pa3XLe data into these instruments.

#### Loading Pa80, Pa60, Pa50 or Pa50SD data

You can load Pa80, Pa60, Pa50 or Pa50SD data exactly as if they were Pa3XLe data, apart for the Global data. The only difference is that the "SOUND" folder of Pa3XLe (inside the .SET folder) is called "PROGRAM" in the older instruments. Therefore, to load Sounds from their disks, you must complete one of the following operations:

- Rename the "PROGRAM" folder "SOUND" (by using a personal computer) before loading a ".SET" folder; *or*
- First load the ".SET" folder, then separately load the ".PCG" file from the "PROGRAM" folder.

*Note:* It is not possible to load Pa3XLe data into these instruments.

#### Loading i-Series data

Pa3XLe is compatible with the Styles of the older i-Series instruments. You can load them as if they were ordinary Pa3XLe data.

- **1.** Copy the old i-Series data into an USB device, or transfer them to the internal storage memory of the Pa3XLe.
- **2.** Press MEDIA to go to the Media mode. Select the Load page if needed.
- **3.** While in the Load page, select the device containing the i-Series data from the Device pop-up menu.
- **4.** If you are reading an i30 file, select the ".SET" folder and touch the Open button in the display.
- 5. Select the ".STY" folder.
- 6. At this point, you can load the whole ".STY" folder, or open it and select a single Style.

• To load the whole folder, touch the Load button in the display. If it contains more than 40 Styles, they will be loaded into the USER banks sequentially, otherwise you will be prompted to select one of the USER Style banks or the FAVORITE Style banks in memory. Once the target bank is selected, touch Load to load the bank. The "Are you sure?" message will appear. Touch OK to confirm, or Cancel to abort.

• To load a single Style, touch Open in the display to open the ".STY" folder. Since a conversion will be started at this point, please wait some seconds for the operation to be completed.

Select the Style to load, then touch Load. You will be prompted to select a target location in memory. Once the target location is selected, touch Load to load the Style. The "Are you sure?" message will appear. Touch OK to confirm, or Cancel to abort.

**Note:** Loading a whole ".SET" folder from an i30 file may take some time due to format conversion.

- Go to the Style Play mode, and select (one of) the loaded Style. Adjust the Tempo value, then select the "Write Current Style Settings" to write changes. Touch OK twice to confirm.
- 8. Due to the difference in Sounds, you will probably want to make some adjustments to the old Styles, once they are loaded in Pa3XLe (changing the Sound, Volume, Pan, Tempo, Drum Mapping, Wrap Around...).
- **9.** To make the Sound assignment to the Style tracks effective, be sure the "Original Style Sounds" parameter is not checked (see page 114).
- **10.** Save the Style Settings again. Select the "Write Current Style Settings" to write changes. Touch OK to confirm.

Note: It is not possible to load Pa3XLe data into these instruments.

# Save

In this page, you can save User data from the internal memory to a mass storage device (like an hard disk or an USB memory stick). You can save single files, banks, or all the User and Favorite Style files of the internal memory.



**Note:** While in this page, only data allowed for saving are shown. All other files are hidden.

The file/folder type	contains	and will create on the target device
All	All the User data in memory	A .SET folder
Style	The FAVORITE 01-12 Styles and the USER 01-03 Styles	A STYLE folder inside a .SET folder
Sound	The USER Sounds and Drum Kits	A SOUND folder inside a .SET folder
Pad	The USER Pads	A PAD folder inside the .SET folder
Perform (Perfor- mances)	The Performances	A PERFORM folder inside a .SET folder
SongBook	The SongBook database	A SONGBOOK folder inside a .SET folder
РСМ	All the Multisamples con- tained in the internal stor- age memory, and the PCM Samples contained in RAM	A PCM folder inside a .SET folder
Global	All global parameters. MIDI Presets, SC Presets, Limiter Presets, Master EQ Presets and VP Presets are also saved.	A GLOBAL folder inside a .SET folder. Inside the GLOBAL folder other folders will be created, to contain the MIDI, SC, Limiter, Master EQ Pre- sets and VP Presets.

Here are the various types of files contained in the internal memory:

# Creating a new ".SET" folder

Pa3XLe proprietary data must be saved in special folders with the ".SET" extension. These special folders can be saved inside ordinary folders.

When saving, you can save onto existing ".SET" folders, or you can create a new folder of this type. Here is how to do it.

1. When the directory of the target device is shown in the display, the "New SET" button appears among the buttons below the file list.



**2.** Touch the New SET button. A dialog box appears, asking you to enter a name for the new ".SET" folder.

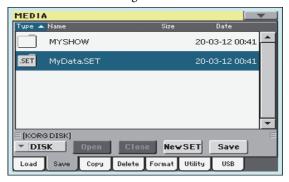
Create New SE	T Folder
Cancel	ОК

- **3.** Touch the **T** (Text Edit) button to open the Text Edit window. Enter the name, then touch OK to confirm and close the Text Edit window. *Note:* The ".SET" file name extension is added automatically.
- 4. Touch OK to create the new folder and exit the dialog box.

### Saving the memory content

You can save the memory content with a single operation. Depending on the status of the "Factory Style and Pad Protect" parameter, you may or may not see the Factory Style and Pad banks (see "Factory Style and Pad Protect" on page 260).

- **1.** If saving to an external device, connect the device to the USB Host port.
- 2. The content ("All") of the internal memory is already shown. Select it, and touch Save to confirm the selection. The list of files in the target device is shown.



- **3.** If needed, use the Device pop-up menu to select a different target device. When the target device is selected, its content will appear in the display.
- 4. At this point, you can:

• Touch the New SET button and create a new ".SET" folder (see "Creating a new ".SET" folder" on page 290), *or* 

- Select an existing ".SET" folder.
- **5.** Touch Save to confirm. A dialog box appears, asking you to select the type of data to save:

Save All User				
Favorite Style	User Sound & DK			
User Style	PCM			
User Pad	SongBook			
Performance	🔳 Global			
Cancel	ОК			

Save All dialog with the Factory Style and Pad Protect option turned on

Save All				
Factory Style	Performance			
Favorite Style	User Sound & DK			
🔳 User Style	PCM			
Factory Pad	SongBook			
🔳 User Pad	🔳 Global			
Cancel	ОК			

Save All dialog with the Factory Style and Pad Protect option turned off

In the dialog box above, check all data type you wish to save to a storage device.

**6.** Touch OK to confirm, or Cancel to abort. After confirming, the data in memory is merged with the data in the tar-

get folder. Data not existing in memory is left unchanged in the target folder.

**Warning:** After confirming, saved data is overwritten in the target folder.

# Saving all data of a specified type

In addition to the above, you can save all data of a specified type by selecting the corresponding folder.

- **1.** If saving to an external device, connect the device to the USB Host port.
- 2. The full content ("All") of the internal memory is already shown. Select it, and touch Open to open it. A list of User data types appear (each type is a separate folder).

MEDI	A		
Туре 🔺	Name	Size	Date
U ^{3Ų€}	GLOBAL		15-06-12 18:19
	PAD		11-06-12 10:04
PEN	PCM		04-04-12 12:42
	PERFORM		11-06-12 10:04
SL	SONGBOOK		11-06-12 10:04 👻
	GDISK]\STARTUP\ALL		
- SY	S Open Close	J	Save To
Load	Save Copy Delete F	ormat	Utility USB

**3.** Select the folder containing the type of data you wish to save, and touch Save To to confirm the selection. The list of files of the target device is shown.

MEDI	A				•
Туре 🔺	Name		Size	Date	
	MYSHOW		2	0-03-12 00:41	1
.SET	MyData.SET		2	0-03-12 00:41	
					<b>_</b>
≡ [KOR	G DISK]				
- DI	SK Open	Close	NewSET	Save	
Load	Save Copy	Delete For	mat Utilit	y USB	

- 4. If needed, use the Device pop-up menu to select a different target device. When the target device is selected, its content will appear in the display.
- 5. At this point, you can:

• Touch the New SET button and create a new ".SET" folder (see "Creating a new ".SET" folder" on page 290), or

• Select an existing ".SET" folder, and touch Save to confirm.

*Warning: After confirming, all data of the selected type in the target folder is deleted.* 

# Saving a single bank

You can save a single User bank with a single operation. Each bank corresponds to each of the side tabs in the various Select windows (Style Select, Performance Select...).

- **1.** If saving to an external device, connect the device to the USB Host port.
- **2.** The full content ("All") of the internal memory is already shown. Select it, and touch Open to open it. A list of User data types appear (each type is a separate folder).

MEDI	A	
Туре 🔺	Name	Size Date
U ^s U ^s	GLOBAL	15-06-12 18:19
	PAD	11-06-12 10:04
PPCH	PCM	04-04-12 12:42
	PERFORM	11-06-12 10:04
SL	SONGBOOK	11-06-12 10:04 🗸
E [KOR	GDISK]\STARTUP\ALL S Open Close	Save To
Load	Save Copy Delete F	Format Utility USB

**3.** Select the folder containing the type of data you wish to save, and touch Open to open it. The list of contained bank files is shown.

	MEDI	<b>A</b>			-
	Туре 🔺	Name	Size	Date	
		FAVORITE01.STY	13K	15-06-12 18:32	-
		USER01.STY	21K	13-06-12 01:45	
	<u>r</u>	USER02.STY	13K	15-06-12 18:32	
					<b>-</b>
	[KOR	3DISK]\STARTUP\ALL\STY 5 Open Close	LE	Save To	Ξ
Į	Load	Save Copy Delete F	ormat U	tility USB	

**4.** Select the bank file to be saved, and touch Save To to confirm the selection. The list of files of the target device is shown.

MEDIA	<b>.</b>				[	-
Туре 🔺	Name		Size		Date	
	MYSHOW			20-0	)3-12 00:	41
SET	MyData.SET			20-0	)3-12 00:	41
						<b>_</b>
≡ [KORG	DISK]					
▼ DIS	iK Open	Clos	e New	SET	Save	
Load	Save Copy	Delete	Format	Utility	USB	

- 5. If needed, use the Device pop-up menu to select a different target device. When the target device is selected, its content will appear in the display.
- 6. At this point, you can:

• Touch the New SET button and create a new ".SET" folder (see "Creating a new ".SET" folder" on page 290), or

• Select an existing ".SET" folder, and touch Save to confirm.

**7.** A dialog box appears, asking you to select one of the available User (or Favorite/User Style) locations inside the folder:

Save
USER01.STY
То
[KORG DISK]\MyData.SET
▼ Usr01-User 1
Cancel OK

In the above dialog box, the previously selected bank of Styles will be saved to bank User 01 inside the selected folder. Three User banks are available.

8. Touch OK to confirm, or Cancel to abort.

**Warning:** After confirming, the same bank in the target folder is deleted.

### Saving a single item

You can save a single User item with a single operation.

- **1.** If saving to an external device, connect the device to the USB Host port.
- 2. The full content ("All") of the internal memory is already shown. Select it, and touch Open to open it. A list of User data types appear (each type is a separate folder).

MEDI	A	
Туре 🔺	Name	Size Date
U ^s Ų€	GLOBAL	15-06-12 18:19
	PAD	11-06-12 10:04
PEH	PCM	04-04-12 12:42
	PERFORM	11-06-12 10:04
sl	SONGBOOK	11-06-12 10:04 🗸
E [KOR	G DISK]\STARTUP\ALL	
▼ SY	S Open Close	Save To
Load	Save Copy Delete F	Format Utility USB

**3.** Select the folder containing the type of data you wish to save, and touch Open to open it. The list of contained bank files is shown.

MEDI	A			•
Туре 🔺	Name	Size	Date	
<u>r</u>	FAVORITE01.STY	13K	15-06-12 18:32	-
<u>R</u>	USER01.STY	21K	13-06-12 01:45	
<u>R</u>	USER02.STY	13K	15-06-12 18:32	
				•
E [KOR	GDISK]\STARTUP\ALL\STY	LE		Ξ
- SY	S Open Close	J	Save To	
Load	Save Copy Delete Fo	ormat U	tility USB	

**4.** Select the desired bank file, and touch Open to gain access to the single items.



 Once you have selected the file that you want to save, touch Save To to confirm the selection. The list of files of the target device is shown.

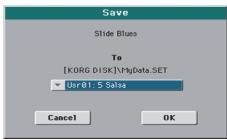


- 6. If needed, use the Device pop-up menu to select a different target device. When the target device is selected, its content will appear in the display.
- 7. At this point, you can:

• Touch the New SET button and create a new ".SET" folder (see "Creating a new ".SET" folder" on page 290), or

• Select an existing ".SET" folder, and touch Save to confirm.

8. A dialog box appears, asking you to select one of the available User (or Favorite Style) locations inside the selected folder



In the above dialog box, the previously selected Style will be saved to location 01 inside the bank Usr01 inside the selected folder.

9. Touch OK to confirm, or Cancel to abort.

*Warning:* After confirming, the same item in the target folder is deleted.

# Сору

In this page you can copy files and folders. Folders can be generic or ".SET" folders. In addition, you can copy the content of the generic folder you are in. You can copy inside the same device, or from a device to a different one (both devices must be connected to the Pa3XLe during the copy operation).

To preserve data structure integrity, during Copy operations you can't open ".SET" folders and copy only one of the files it contains. You can only open and go inside generic folders.

MEDI	A			-
Туре 🔺	Name	Size	: Date	
	MYSHOW		20-03-12 00:4:	1
SET	MyData.SET		20-03-12 00:4:	L
-	G DISK]			
▼ DI	SK Open	Close	Сору То	al stress
Load	Save Copy	Delete Format	Utility USB	

Contrary to the Load and Save pages, in this page you may see all types of files, and not only Pa-Series supported files (assuming the "Hide Unknown Files" option is turned off, see page 260).

# **Copying a folder's content**

If nothing is selected while a folder is open in the display, you can copy the folder's content, without copying the folder itself.

**Note:** During the Copy procedure, you can't open a ".SET" folder. You can, however, open any generic folder.

- **1.** If copying from or to an external device, connect the device to the USB Host port.
- 2. Select the source device, by using the Device pop-up menu.
- **3.** If the folder you are looking for is inside another folder, select this latter and touch the Open button to open it. Touch the Close button to go back to the parent folder.
- **4.** To copy the current folder's content, without copying the folder itself, do not select anything in the display.
- **5.** Touch Copy To to confirm. The target device appears.

**Note:** If the selected device is not available, the "Device not found, or unknown format" message will appear. A different device will be automatically selected.

- 6. If needed, select the target device, by using the Device popup menu.
- **7.** If you want to select a different folder, use the Open and Close buttons to move through the directories.

• To copy into an existing generic folder (not a ".SET" folder), select that folder.

- To copy into the current folder, do not select anything.
- 8. Once the target is selected, touch Copy.

If a file or folder with the same name of the source data already exists at the target location, the "Overwrite" dialog box will appear (see "Overwriting existing files or folders" on page 294). During Copy, a dialog box shows the progress of the operation.

Copy Progress
File Name:
BANK01.PRF
Copied files: 2

# Copying a single file or folder

You can copy a single file or folder, from the root or a generic folder to a different one. You can't copy single files or folders from inside a ".SET" folder.

- 1. If copying from or to an external device, connect the device to the USB Host port.
- 2. Select the source device, by using the Device pop-up menu.
- **3.** Select the folder containing the file or folder you wish to copy. If it is contained in another folder, touch the Open button to open it. Touch Close to go back to the previous hierarchic level.
- **4.** Touch Open to open the folder containing the file or folder to be copied.
- **5.** Select the file or folder to be copied, then touch Copy To to confirm its selection. The target device appears.

**Note:** If the selected device is not available, the "Device not found, or unknown format" message will appear. A different device will be automatically selected.

- **6.** If needed, select the target device, by using the Device popup menu.
- **7.** When the target device content appears in the display, select the target folder. Touch Open to open a folder, or Close to close it.
- 8. Once the target is selected, touch Copy.

If a file or folder with the same name of the source data already exists at the target location, the "Overwrite" dialog box will appear (see "Overwriting existing files or folders" below).

### **Multiple file selection**

While in the Copy and Delete pages of the Media mode, you can select several files or folders at the same time before executing the operation. Files or folders can be selected consecutively (i.e., in a row), or discontinuously (i.e., with other files or folders in the middle).

To choose either to select files in a consecutive or discontinue way, use the Mode button on the right of the page command buttons, to choose an option for the SHIFT button:



Choose this option to select files or folders consecutively (i.e., in a row).



Choose this option to select files or folders discontinuously (i.e., with other files or folders in the middle).

#### To select more files or folders consecutively:

- Touch the Mode button to choose the split option for the SHIFT button.
- **2.** Select the first file or folder to be selected.
- **3.** Press and keep the SHIFT button pressed.
- 4. Select the last file or folder to be selected.
- **5.** Release the SHIFT button.

#### To select more files or folders discontinuously:

- 1. Touch the Mode button to choose the set option for the SHIFT button.
- 2. Select the first file or folder to be selected.
- 3. Press and keep the SHIFT button pressed.
- 4. Select a second file or folder to be selected.
- **5.** While keeping the SHIFT button pressed, continue selecting the other files or folders to be selected.
- 6. Release the SHIFT button.

#### To deselect the files or folders:

- To deselect one or more file or folder, without deselecting everything, keep SHIFT pressed and touch the file or folder to be deselected.
- To deselect everything, select any other file or folder. All selected files and folders will be deselected.

### **Overwriting existing files or folders**

When copying files, a file or folder with the same name of a source element might be found in the target device. In this case, Pa3XLe asks you if you want to overwrite it.

When a duplicate file or folder is met, the following dialog box appears:



Cancel The procedure is interrupted.

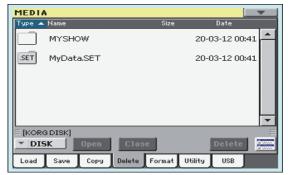
No

The file or folder is not overwritten. The source file or folder is not copied. The procedure will continue with the other files and folders.

- Yes The file or folder is overwritten. The procedure will continue with the other files and folders.
- Yes (to) All The file or folder is overwritten. Any following duplicate file or folders will be overwritten as well, without this dialog box appearing again. The procedure will continue with the other files and folders.

# Delete

The Delete function lets you delete files and folders from the devices.



Contrary to the Load and Save pages, in this page you may see all types of files, and not only Pa-Series supported files (assuming the "Hide Unknown Files" option is turned off, see page 260).

# **Delete procedure**

- 1. If erasing from an external device, connect the device to one of the USB Host ports.
- **2.** If needed, select a different device, by using the Device pop-up menu.
- **3.** If the file or folder you are looking for is inside another folder, select this latter and touch the Open button to open it. Touch the Close button to go back to the parent folder.
- 4. Select the file or folder to erase.
- 5. Touch Delete to delete the selected item.

During erase, a dialog box shows the progress of the operation.

# **Multiple file selection**

See "Multiple file selection" on page 294 for information on how to select more files or folders to be erased at the same time.

# Format

The Format function lets you initialize a device. Pa3XLe uses a PC-compliant device format (DOS FAT16 and FAT32):

MEDIA	<u>ا</u>						
F	Format						_
	Volume I	Label T	KORG				
	Plea	se select	an optior	and pres	s 'Execut	e'.	
							_
- DI9	SK				E	Execute	
Load	Save	Сору	Delete	Format	Utility	USB	

*Warning:* When formatting a device, all data it contains is lost forever!

#### Volume Label

Use this parameter to assign a name to an external device to be formatted.

*Note:* You cannot rename the label (name) of the internal volume. When formatting the internal disk, the label cannot be edited.

Touch the **T** (Text Edit) button to open the Text Edit window. Enter the name, then touch OK to confirm and close the Text Edit window.

**Note:** When changing the name to a device containing Standard MIDI Files or MP3 files used in the SongBook, the links are broken. We suggest to give the device the same name it had before formatting. In case you changed the name, please use SongBook Editor (freely available on www.korg.com) to edit the links.

*Warning:* It is not possibile to change the label (name) of the internal disk when Pa3XLe is connected to a PC through the USB port. If you try to do it, the original name is restored by Pa3XLe.

#### Execute button

Touch this button, after having assigned a name to the volume, to execute the Format command.

#### Format procedure

Here is how to format a device.

- **1.** If formatting an external device, connect the device to the USB Host port.
- **2.** Choose the device to be formatted by using the Device pop-up menu in the lower-left corner of the display.
- **3.** Touch the Execute button in the display to confirm formatting.
- 4. The "If you confirm, all data in the media will be lost. Are you sure?" message appears in the display. Touch Yes to confirm, or No to cancel.

**Note:** When formatting the hard disk or an external USB device, an additional warning appears, to avoid accidental data loss.

# Utility

This page includes a set of backup and restore utilities. The Backup command should be used for archiving purpose only, since you will not be able to load individual data from a backup file. To save data that must remain accessible with the normal Media > Load operations, for example to load User data after updating the Musical Resources, use the Media > Save operations instead.

MEDIA
Utility
Full Resource Backup
O Resource Restore
Factory Restore
Please select an option and press 'Execute'.
OS Version: 1.80 (Jun 8 2012) Execute
Load Save Copy Delete Format Utility USB

#### **Full Resource Backup**

This command allows you to make a full backup of all the internal data on a target device. A ".BKP" file will be created.

*Hint:* This command cannot be used to save single items (like a single Style, a bank of Performances...). To do that, use the Save operations instead.

1. In case you are making the backup on an external USB device, connect the device to one of the USB Host ports.

Be sure there is enough free space in your target device, or the Backup procedure will not be completed.

2. Select the "Full Resource Backup" command, then touch the Execute button in the display. The target device appears.

MEDIA	۱						
Туре 🔺	Name			Size	Dat	te	
	MYSHOW	v			20-03-1	2 00:41	-
						-	-
E [KORC	DISK]						
▼ DIS	к 🛛	lpen	Clos	e Can	cel Baa	:kup	
Load	Save	Сору	Delete	Format	Utility 🗾 U	SB	

- **3.** If needed, select a different device, by using the Device pop-up menu.
- **4.** If you wish to save data inside another folder, select this latter and touch the Open button to open it. Touch the Close button to go back to the parent folder.
- **5.** Select the folder where to save data, and touch Backup to save it. If nothing is selected, data will be saved to the current directory.

After touching Backup, a dialog box will appear, asking you to assign a name to the backup file.

Backup	
T NewName	
Cancel	ОК

Touch the **T** (Text Edit) button to open the Text Edit window. Enter the name, and confirm by touching OK.

- 6. Touch OK to start the backup.
- **7.** When finished, save the (removable) storage device in a safe place.

#### **Resource Restore**

This command restores data from a backup of the internal Factory and User data, created with the "Full Resource Backup" command.

**Hint:** This command cannot be used to load single items (like a single Style, a bank of Performances...). You can only load all data, or full data types. Backups are compact archives, that can only be restored as a full package.

**Note:** Loading a backup file created with other Pa-Series and *i*-Series instruments is not allowed.

*Warning:* Don't play the keyboard while restoring data, and stay in the Media mode. Wait until the "Wait" message disappears.

- 1. In case you are restoring from an external USB device, connect the device to the USB Host port.
- **2.** Select the Restore Resources command, then touch Execute. The source device appears.
- **3.** If needed, select a different device, by using the Device pop-up menu.
- **4.** Browse through the files to find the backup file.
- **5.** When the backup file (".BKP" file) is in the display, select it and touch the Restore command.
- **6.** A dialog box will appear, with a list of types of data to be restored. Only check the types of data you want to restore.

Restore					
A11	Sounds & DK				
🔲 Style	PCM				
Pad	SongBook				
Performance	Global				
Cancel	ОК				

**Warning:** This command will delete from the internal memory all types of data selected in this dialog box (including your custom data).

**7.** When done, a message appears asking you to restart the instrument ("Data Restored. Please switch off"). Set the instrument to standby mode, then turn it on again.

#### **Factory Restore**

In case you want to erase all changes to your Factory and User data, and restore your Pa3XLe to the same condition it was when it was new, you can use the Factory Restore procedure.

*Warning:* This command deletes all data from memory (including your custom data).

- **1.** Select the Factory Restore command, then touch Execute.
- **2.** A dialog box will appear, with a list of types of data to be restored. Only check the types of data you want to restore.

Restore					
<b>A</b> 11	Sounds & DK				
Style	PCM				
Pad	SongBook				
Performance	Global				
Cancel	ОК				

**Warning:** This command will delete from the internal memory all types of data selected in this dialog box (including your custom data).

**3.** When done, a message appears asking you to restart the instrument ("Data Restored. Please switch off"). Set the instrument to standby mode, then turn it on again.

#### **OS Version Number**

This line shows the installed Operating System version. From time to time, check our web site (www.korg.com), to see if a newer, free version has been released.

# USB

Use this page to enable or disable the USB Device port for file transfer.

MEDIA	<u>۱</u>						
t	JSB —						_
		KORG	DISKZ	6D Conn	ection		
	C	isable			Enable		
		_		_			,
	Th				DISK/SI	D	
cannot be renamed.							
Load	Save	Сору	Delete	Format	Utility	USB	

The USB Device port allows you to access the internal storage memory from a personal computer, by just connecting the Pa3XLe to the computer's USB interface. This way, you can exchange files between the user-accessible area of the internal storage memory of the Pa3XLe (DISK device), the microSD card (SD devices), and a personal computer.

*Note:* The drivers supplied in the Accessory Disc are only for MIDI Over USB connection.

**Note:** While USB file transfer is enabled, you cannot access other functions on the Pa3XLe. MIDI Over USB is also disabled.

**Warning:** It is not possibile to change the label (name) of the internal disk or microSD card when Pa3XLe is connected to a PC through the USB port. If you try to do it, the original name is restored by Pa3XLe.

#### **KORG DISK/SD Connection**

Usually, the USB Device port is not enabled for file transfer on the Pa3XLe (it is always on, however, for MIDI connection). Touch the Enable button to turn it on, or the Disable button (with all the caveats) to turn it off.

- 1. Connect Pa3XLe to a personal computer by using a standard USB cable
- 2. Touch the "Enable" button to enable file transfer. Pa3XLe becomes the B USB device (called *Device* or *Slave*), while the personal computer becomes the A USB device (called the *Host* or *Master*).

When finished, the icon of the internal memory of Pa3XLe will appear among the other storage devices connected to the computer.

**Caveat:** Do not modify the structure of the "SET" folders, or you will no longer be able to use them on the Pa3XLe. Only use the USB connection for data exchange purpose, or to modify ordinary folders.

**Note:** After starting the USB connection, accessing Pa3XLe data from the computer may take some time, depending on the size of the internal memory and the amount of data it contains.

- 3. When all data has been transferred, disconnect USB communication from the computer. On a PC, you usually select the dedicated command by clicking on the USB device icon with the right mouse button. On the Mac, select the USB device icon, then select the Eject command or drag it to the eject icon in the Dock.
- When the Pa3XLe icon disappears from the computer's desktop, touch the "Disable" button on the display of Pa3XLe.

**Caveat:** Do not disconnect the USB communication before the personal computer has really finished transferring files. Sometimes, the on-screen indicator tells the procedure has been completed BEFORE it has really finished.

Disconnecting USB communication (or disconnecting the USB cable) before data transfer has been completed may cause data loss.

# Page menu

Touch the page menu icon to open the menu. Touch a command to select it. Touch anywhere in the display to close the menu without selecting a command.

Create New Folder
Rename
Object(s) Info
Device Info
Protect
Unprotect

#### **Create New Folder**

This command lets you create a new generic folder. You can't create a ".SET" folder with this command, since this type of folder is reserved to the Save operations (and can be created with the New SET button in any Save page).

Create New F	older
T NEWNAME	
Cancel	<u> </u>

By touching the **T** (Text Edit) button you can open the Text Edit window. Enter the name, then touch OK to confirm and close the Text Edit window.

#### Rename

#### Available only when an item is selected in a file list.

Use this function to change the name of an existing generic file or folder. To preserve consistency through the data structure, you cannot rename folders and files inside a "SET" folder. Also, you cannot change the 3-character extension of files and ".SET" folders, since they are used to identify the type of file or folder.

Rename	
Old name:	
MYSHOW	
New name:	
T MYSHOW	
Cance1	OK

Touch the **T** (Text Edit) button to open the Text Edit window. Enter the new name, then touch OK to confirm and close the Text Edit window.

#### **Object(s) info**

Select this command to see the size of any selected file or folder. Also, the number of files and directories (folders) it contains are shown.

Object(s) Info					
Selected Item(s)	: 1				
Name:	MYSHOW				
Size:	118784 bytes				
Directory:	2				
File:	5				
	ОК				

**Note:** The **single file** size is always shown to the right of the file name in any file list (assuming the "Size" parameter is turned on, see page 260):

Туре 🔺	Name	Size	Date	
JBX	My Jukebox List.JBX	172	20-05-12 20:48	٠
	,	$\smile$		

#### **Device Info**

Select this command to see various info on the selected device. To select a different device, use the Device pop-up menu on the lower left corner of most Media pages.

Device Information					
Label:	T KORG DISK				
Total size:	20.03 G bytes				
Free size:	7.77 G bytes				
Damaged siz	e: Ø bytes				
	ОК				

By touching the **T** (Text Edit) button you can open the Text Edit window. Enter the name (label) of the selected device, then touch OK to confirm and close the Text Edit window.

**Warning:** If you change the name of a device connected to the USB Host port, and it contains files used by some SongBook Entries, these entries will no longer be able to find the linked resources contained in the device. In this case, either restore the original device name, or use the SongBook Editor software (freely available on www.korg.com) to edit the links.

**Note:** You cannot change the name of the internal storage memory or the internal microSD card.

#### Protect

Select this command to protect the selected file or folder from writing/erasing. The lock icon will appear next to the file or folder name.



#### Unprotect

Select this command to unprotect the selected file or folder – if protected.

# Care of mass storage devices

The Pa3XLe can save most of the data contained in memory to the internal memory, or to external devices (like hard drives or USB memory sticks) connected to the USB Host port. Here are some precautions when handling these devices.

### Internal memory write protection

You can protect your internal memory from writing, by using the software protection found in Global mode (see "Media Protect" on page 260).

#### **Precautions**

- Do not remove a device or move the instrument while the device is operating.
- In order to avoid losing data in case of damage, make a backup copy of the data contained in a device. You can backup your data to a personal computer, and from there to a backup unit. You can transfer data from the internal memory of Pa3XLe (DISK unit) to a personal computer by using the USB Device connection.
- Do not leave an USB device connected to the USB ports while carrying the instrument, or it may be damaged.
- Keep the memory devices or the instrument away from sources of magnetic fields, for example televisions, refrigerators, computers, monitors, speakers, cellular phones and transformers. Magnetic fields can alter the contents of the devices.
- Do not keep memory devices in very hot or wet places, do not expose them to direct sunlight and do not store them without use in dusty or dirty places.
- Do not place heavy objects on top of the devices.
- Regular care is recommended with your devices. Defragmenting and repairing internal devices can be made with any computer utility while the Pa3XLe is connected via USB.

### **Possible problems**

 Magnetic fields, dirt, humidity and usage can damage data in a device. You can try to recover the data with disk repair utilities for personal computers. It is, however, advisable to always make a backup copy of your data.

# Loading User Samples

If you are loading a bank of Sounds, and one or more Sounds or Drum Kits use external PCM Samples, the Samples are automatically loaded (unless they are already in memory).

You can save space for loading new data by deleting all unused PCM Samples from memory. When Sounds or Drum Kits based on external PCM Samples are deleted, you no longer need the now unassigned PCM Samples. Use the "Not assigned to any Multisample/Drumkit" Delete option in the Sampling mode to delete all the unassigned Samples (see page 250).

# Merging Samples from various sources

When you load a .SET folder, all User PCM Samples in memory are deleted. So, there is no way to merge different samples by loading complete .SET folders.

To merge samples from several sources, you must load single Sounds or Drum Kits based on User PCM Samples.

# **Delete all samples and multisamples**

- 1. If you want to delete all Samples and Multisamples already in memory, press the SOUND button to access the Sound mode, then press the RECORD button to access the Sampling mode.
- 2. While in Sampling mode, choose the "Delete" command from the page menu. Choose the "All Samples, MultiSample, DrumSamples" option, and touch OK to delete all Samples and Multisamples.

*Warning:* Before deleting, be sure to have a copy of any important data you don't want to lose.

**3.** To exit from the Sampling mode, choose the "Exit from Record" command from the page menu.

### **Create a new .SET of samples**

- 1. Press the MEDIA button to access the Media mode. Go to the Load page.
- 2. Open a first .SET folder containing some of the PCM Samples to merge. Open the SOUND folder, then one of the USER banks, and choose the first of the Sounds or Drum Kits based on samples you would like to load. Touch Load, and choose a target User location in memory.

The Sound or Drum Kit is loaded, together with the PCM Samples it is based on.

- **3.** Do the same with any subsequent Sound or Drum Kit whose Samples you would like to load.
- 4. When finished loading, save a new .SET folder, being sure the PCM option is checked in the Save All dialog (see "Saving the memory content" on page 291, or "Saving all data of a specified type" on page 291).

# SongBook

The SongBook is a musical database that allows you to organize songs and automatically recall the associated "musical resources" (Style, Standard MIDI Files, KAR files, and MP3 files).

The SongBook overlaps the Style Play and Song Play operating modes. When you select an entry from the full database or a custom list, the Style Play or Song Play mode is automatically selected, depending on the type of file associated with the entry.

In addition to helping you organize your shows, the SongBook allows you to associate a Voice Processor Preset, four Pads, and up to four STSs to each Style, Standard MIDI File or MP3 file, to recall a complete set of Keyboard tracks for realtime playing over a Song. You can also link a separate text file containing lyrics to an entry.

**Note:** SongBook Entries do not include actual data; they are just pointers to a Style, a Standard MIDI File an MP3 or a TXT file. When you copy a SongBook file, referenced files are not copied with it.

*Hint:* Use the SongBook Editor software (freely available from our web site) to edit your SongBook on a PC.

**Warning:** If you load a SongBook file from a storage device, the existing one in memory (including the custom lists) is deleted. Save your old SongBook file before loading a new one.

# Book

The Book page contains the full database of song entries. While in this page, you can select an entry, and touch the Select button in the display to load it. Then, press the PLAY or START button to start the Song or Style.



Each entry of this database may include the song's author, name, genre, original key, tempo and meter (time signature). When selecting one of the entries, the associated Style, Standard MIDI File or MP3 file is automatically recalled, together with any TXT lined to the entry. Also, a Voice Processor Preset, the STSs and Pads may be recalled.

### **List Header**

The List Header may change, depending on the type of data associated with the selected entry.

• When a Style is associated to the entry, the currently selected entry's name is shown on the left ("N:"), and the associated Style is shown on the right ("Style:"):

N: Mambo dance Style: Tap Dance

• When a Standard MIDI File or MP3 file is associated to the entry, the list header is split into two parts, with the left half referring to Player 1, and the right one referring to Player 2.

Information for the selected entry's name ("N:") and the associated Standard MIDI File or MP3 file ("P1:" or "P2:") is given for each player:

 N: LoveSong
 P1: LoveSongN: -- P2: Canyon

 Note: If you select a different Style or Standard MIDI File or MP3 file, the entry's name field ("N:") returns blank (---), meaning the

### **Full list**

entry has been modified.

This is the full list of the SongBook database. Use the scrollbar (or the VALUE DIAL) to browse through the list.

You can touch one of the heading labels above the list to change the order in which entries are shown. For example, by touching the "Name" label, the list is alphabetically re-ordered according to the entry names. The selected label become highlighted, showing the currently selected ordering.

SONG	BOOK	MT: 0	<no chord=""></no>	
N:		Sty	le: UnpluggedB	alla
Туре	Name 🔺	Genre	Key Bp	m
STY	1000giorni di noi	Ballad		86
STY	6⊥1 dave	Pop		100

By touching the label again, the order of the files switches between ascending and descending. The small arrow next to the label name shows the selected order.

### Scrollbar

Use the scrollbar (or the VALUE DIAL) to scroll the entries. You can keep the SHIFT button pressed while touching the scrollbar, to quickly jump to the next/previous alphabetical section.

# Commands

#### Filtered

When this box is checked, only entries matching the selected filter criteria are shown in the full list. The box is automatically checked when you exit from the Filter dialog box by touching OK (see below).

#### Filter...

Touch this button to open the Filter dialog box, and select one or more filter criteria, to show a restricted set of entries in the main list.

	Filter	
Name:	Т	Clear
Genre:	Т	Clear
Artist:	Т	Clear
Meter Info:	▼	Clear
Tempo:	From To 250	Clear
Cance	e1 OK	Clear All

Touch the **T** (Text Edit) button next to the search criteria you want to edit (Name, Genre, or Artist). You can also select a Meter, or a range of Tempo values.

Touch the Clear button next to the search criterion you want to delete or set to a default value.

Touch Clear All to reset all search criteria.

**Note:** You can also find items in the SongBook database by pressing the SEARCH button, and using the Search function. However, the Filter function allow for a more refined search.

#### Add to list

If the "Enable List Edit" command is selected in the page menu, the "Add to list" button becomes available, to let you add entries to the selected Custom List.

Select an entry, then touch this button to add the selected entry to the current Custom List (see "Custom List" on page 303).

#### Select

Touch this button to confirm selection of the highlighted entry in the full list. After touching this button, the name of the selected entry appears in the left upper side of the display ("N:").

When you highlight a song in any of the SongBook lists, its name appears in reversed text, over a green-blue background. While in this situation, the song is highlighted, but not yet loaded.



When you touch the Select button in the display, the song will be loaded. The background turns to light green, and the text is turned to boldface, to show the Song has been loaded and ready to play.

4/4

💷 A day in Paradi.. Ballad ----- 96

To start playback of the Song or Style, press (respectively) either the PLAY or START button.

### **Numeric selection of entries**

When in SongBook mode, you can select a SongBook Entry by means of an unique number. Numbers associated with each entry can be programmed in the Book Edit pages – see "Number (Song Selection Number)" on page 304.

To see the numbers while in the Book page, select the "Show Song Numbers (now Key)" command from the page menu:



After you select this command, the "Num" column appears:

SONGBOOK	MT: 0	(no chor	d>	
N: A day in Paradise	Style: F	poalla	1	
Type Name 🔺	Genre	Num	Bpm	Meter
💷 1000giorni di noi	Ballad	285	86	4/4 📥
💷 6+1 days	Рор	119	100	4/4
🎫 A day in Paradise	Ballad	203	96	4/4
STT A felicidad	Latin	2	170	4/4
💷 A gigolo	Рор	3	130	4/4
💷 A hard day/night	Рор	5	148	4/4 👻
Filtered Filter Add to list Select		ect		
Book Custom List List Edit	Book Book Edit 1 Edit 2			Info

To see the "Key" column again, select the "Show Key (now Song Numbers)" command from the page menu.

To select a SongBook Entry by entering its number, press the SONGBOOK button again while you are in any page of the SongBook mode. The numeric keypad will appear, allowing you to enter the number corresponding to the desired entry.

*Hint:* You can export a list of SongBook Entries as a TXT file, including the assigned selection number. You can print this list on paper as a memo. (See "Export as text file" on page 308).

# **Custom List**

Use this page to select and use one of the available Custom Lists. Custom Lists are lists made of entries extracted from the full SongBook list (as seen in the Book page). They allow the use of smaller, customized SongBook lists, suitable for a single gig or your own music tastes.

			List H	eader				
_								_
	SONG	BOOK	MT: 0	Kno chor	∙d>		-	
	N: Ad	ay in Paradise	Sty	ile: Pop Balla	ł			Custom
	Туре	Name	Genre	Кеу	Bpm	Meter		list
	STY	A gigolo	Рор		130	4/4	-	
	STY	Long train going	Рор		118	4/4		Scrollbar
	STY	Mr. Duke	Рор		106	4/4		
	STY	I want your hand	Рор		134	4/4		
	STY	Vry superstitious	Рор		100	4/4		
	STY	Senza donne	Рор		81	4/4	-	
	List:	▼ Pop		Next	Sel	ect	H	Com- mands
	Book	Custom List List Edit	Book E Edit 1 E	Book Book dit 2 Edit 3		In	ifo	manus

*Hint:* You can jump to this page by keeping SHIFT pressed, and pressing the SONGBOOK button.

### List header

See "List Header" on page 301.

# **Custom list**

List of files contained in the selected Custom List. Use the scrollbar to browse through the list. As an alternative, use the VALUE DIAL.

### Scrollbar

Use the scrollbar (or the VALUE DIAL) to scroll the entries.

### Commands

#### List pop-up menu

Use this pop-up menu to select one of the available lists.

#### Next

Touch this button to select the next entry in the list.

*Hint:* You can assign this command to an Assignable Switch or Assignable Footswitch.

#### Select

Touch this button to confirm selection of the highlighted entry in the list. After touching this button, the name of the selected entry appears on the left upper side of the display ("N:").

# List Edit

This page is only available after checking the "Enable List Edit" command in the page menu (see page 308).

Use this page to edit the available Custom Lists. A Custom List is a set of SongBook Entries, created by selecting items from the full list in the Book page.

To add entries to a Custom List, first create or select the list to be edited in this page. Then, go to the Book page, select the entry to be added, and touch the "Add to list" button. When finished adding entries, return to this page and edit the selected list.

List Name SONGBOOK MT: 0 List Name: Disco Custom list 💷 Black's black Disco 4/4 🎫 Boogie marveland Disco 132 4/4 Scrollbar Born to be active Disco 135 4/4 ETTY Daddy is cool Disco 124 4/4 💷 Disco infernal Disco 141 4/-🔊 Don't leave me Disco 132 4/4 Com-+ | Del Song New List Del List Write mands Custom List Book Book Book List Edit Edit 1 Edit 2 Edit 3 Info

# List Name

Name of the selected list. To select a Custom List, go to the "Custom List" page and use the List pop-up menu.

# **Custom list**

List of songs contained in the selected Custom List. Use the scrollbar or the VALUE DIAL to browse through the list.

# Scrollbar

Use the scrollbar (or the VALUE DIAL) to scroll the entries.

# Commands

#### Move

Use these buttons to move the selected song entry up or down in the list.

#### **Del Song**

Touch this button to delete the selected song entry from the list.

#### New List

Touch this button to create a new, empty Custom List.

*Note:* The maximum number of Custom Lists in a SongBook file is 256 lists.

*Warning:* Any unsaved Custom List is lost when creating a new list using this command.

#### Del List

Touch this button to delete the current list.

#### Write

Touch this button to save changes to the selected Custom List.



To assign a different name to the selected list, touch the **T** (Text Edit) button to open the Text Edit window.

Select an option to save the edited Custom List:

- Select Rename/Overwrite to overwrite an existing list, optionally changing its name. *Warning: The older list will be deleted!*
- Select New List to save a new Custom List in memory. This list will be available in the "Custom List" page.

# **Book Edit 1**

The Book Edit 1 page is where you link a "musical resource" (Style or Song) to the SongBook Entry, and choose to save STSs and a Voice Processor Preset to the Entry.

*Hint:* Use the Filter in the Book page, to quickly find an entry to be edited.

The Book Edit 1 page with a Style-based entry:

SONGBOOK	MT: 0	<no chord=""></no>	
Name: A day in Pa	radise	Number:	203
	Resourc	;e	
Entry:	STY Pop Balla	d	
Write Current:	STTY Pop Ball	ad	
	STS		
Write Current:	O All STS		
Minte current.	🜔 🔳 Piano	Atmosphere To:	▼ STS1
v	oice Processo	r Preset	
Entry:			
Write Current:	Chord 3 Void	es 🚺	🔲 Global
New Song	Del Sor	ng Write	
Book Custom List List Edit	Book B Edit 1 Ed	ook Book dit 2 Edit 3	Info

The Book Edit 1 page with a Song-based entry:

SONGBOOK	MT: 0	<no chord=""></no>	
Name: LoveSong		Nur	mber:
	Resourc	e	
Entry: (	MIDI LoveSon	g.mid	
Write Current: (	MIDI LoveSor	ng	
	STS	•	
Write Current:	🔘 All STS		
write current:	• T Nylon	Guitar	To: 🔽 STS1
Vo	ice Processo	r Preset 🛛 –	
_			_
Write Current:	Chord 3 Voic	es	🗖 Global
New Song	Del Sor	ig 🖌	rite
Book Custom List List Edit		ook Book lit 2 Edit 3	Info

### Header

#### Name

Name of the selected entry. The name is assigned after you touch the Write button to save the entry to the SongBook list.

#### Number (Song Selection Number)

Here you can select a unique number (up to 9,999) to be associated to the current SongBook Entry. By typing this number (by using the Numeric Keypad) after pressing the SONGBOOK button again, you will be able to quickly recall an entry from the Book page (see "Numeric selection of entries" on page 302).

Assigning a number is not mandatory, but may help you to organize your entries. For example, you can use the different 100s to create a different way of categorizing your entries by genre or age.

#### Resource

#### Entry

Style, Standard MIDI File or MP3 file associated with the saved entry.

**Warning:** If you replace this resource with a different one, using the same Style location number or Song file path, the SongBook

Entry will no longer point to the right data. Be careful not to delete or move a Style or a file associated with a SongBook Entry from the original location.

#### Write Current

When checked, the currently selected musical resource (whose type and name is shown on the right) is saved to the entry.

You can select a different resource by returning to the Style Play or Song Play mode, and selecting a different Style or Song from there. Then, press the SONGBOOK button to return to the Book Edit 1 page.

What is saved when touching Write depends on the type of associated resource:

• When you are saving a Style-based entry, a reference to the latest selected Style, whose name is shown on the right of this parameter, is saved.

A reference to the selected Pads (whose name you can see by touching the Pad tab in the main page of the Style Play mode) is also saved. Unless changed, Pads are contained into the selected Style.

The Style Settings and the Pad Settings for the referenced Style and Pads are saved. If you edited these Settings (by changing Sounds, Effects, Transpose...), the modified data will be saved instead of the original.

• When you are saving a Song-based entry, a reference to the MID, KAR or MP3 file assigned to Player 1, whose name is shown on the right of this parameter, is saved.

A reference to the selected Pads (whose name you can see by touching the Pad tab in the main page of the Song Play mode) is also saved.

The Pad Settings for the referenced Pads are saved. If you edited these Settings, the modified data will be saved instead of the original.

When this parameter is left unchecked, no new resource will be saved with the entry. The original resources associated with the entry will be preserved when touching Write.

When touching New Song, or keeping the SONGBOOK button pressed for about one second to create a new entry, this parameter is automatically checked and cannot be modified. A reference to the associated resource will be saved with the new entry.

# STS

#### Write Current

When saving a SongBook Entry, and this parameter is checked, you can save the STSs of the associated Style into the entry, or the current Keyboard track settings into a new STS.

All STS All four STSs are saved to the current SongBook Entry. The source STSs are those contained in the Style currently selected in Style Play mode. You can however do some changes to this starting-point:

• If you select a Performance, its Keyboard track settings will be saved as STS #1.

• If you edited some Keyboard tracks after having chosen an STS, the changes will be saved into the same STS.

When you touch Write and choose the Rename/ Overwrite option, all STSs are overwritten at once.

Single STS The current Keyboard track settings are saved to the chosen SongBook STS.

When you touch Write and choose the Rename/ Overwrite option, only the new STS is overwritten, while the others are left untouched.

• STS Name: Name of the current STS. Touch the

(Text Edit) button to open the Text Edit window, and modify the name.

• *To STS Location:* One of the four STS available for each entry, where you can save the current Keyboard track settings.

### **Voice Processor Preset**

#### Entry

Voice Processor Preset associated with the saved entry.

#### Write Current

When checked, the currently selected VP Preset is saved to the entry.

#### Global

When checked, the Global VP Preset is used.

### **Buttons**

#### New Song

Touch this button to create a new entry with the current settings. Settings are copied from the selected Style, Standard MIDI File or MP3 file. Also, the selected VP Preset, Pads, STSs and Split Point will be saved. The current Keyboard track settings will be saved as STS #1. Any TXT file loaded in the Lyrics pages will be saved as a linked file.

#### Del Song

Touch this button to delete the current entry.

#### Write

Touch this button to open the Write Song dialog box, and save the current entry to the main list of the SongBook.

*Note:* The maximum number of entries in a SongBook file is 3,000 entries.

Write Song
New Song Name: T LoveSong
Rename/Overwrite: LoveSong
🔾 New Song
Cancel OK

To assign a different name to the entry, touch the **T** (Text Edit) button to open the Text Edit window.

Select an option to add the new entry to the SongBook:

- Select *Rename/Overwrite* to overwrite an existing entry, optionally changing its name. *Warning: The older entry will be deleted!*
- Select *New Song* to save a new entry to the SongBook database.

# **Book Edit 2**

The Book Edit 2 page is where you enter information on the Genre, Artist, Key, etc. to the SongBook Entry.

The Book Edit 2 page with a Style-based entry:

SONGBOOK	MT: 0	<no chord=""></no>	-
Name: Love song		Number:	101
· · · · · · · · · · · · · · · · · · ·			
Genre: <b>T</b> Disco		Tempo/Bpm: 10	0
Artist: <b>T</b>		Meter Info: 💌 🧸	4/4
Key Info: 💌	▼	M.Transp.: 0	
New Song	Del Song		]
Book Custom List List Edit	Book Book Edit 1 Edit		Info

The Book Edit 2 page with a Song-based entry:

SONGBOOK	MT: 0	<no chord=""></no>
Name: LoveSong		Number:
Genre: T		Tempo/Bpm: 240
Artist: T		Meter Info: 💌 174
Key Info: 🔻 🖸	▼ Major	M.Transp.: 0
New Song	Del Song	g Write
Book Custom List List Edit	Book Bo Edit 1 Edi	

### Header

This are includes the same Name, Number and Entry Resource fields found in the "Book Edit 1" page (see above).

#### Database

#### Genre

Music genre associated with the entry.

#### Artist

Name of the artist of the song associated with the entry.

#### Key Info

Original key of the entry. The first field is the key name, the second one is the mode (major or minor).

#### Tempo/BPM

Basic tempo of the Style, or starting tempo of the Standard MIDI File associated with the entry. This may change, if a Tempo Change event is included with the associated resource.

You can change this value by using the TEMPO buttons on the control panel. Any change will be shown after saving the Entry.

**Note:** The starting value of a Standard MIDI Files is always considered, and overrides this value.

**Note:** You can edit this value even if an MP3 is associated to the SongBook Entry. However, this is just an indicative value.

#### Meter Info

Basic meter (time signature) of the Style, or starting meter of the Standard MIDI File associated with the entry. This may change, if a Meter Change event is included with the associated resource.

#### M.Transp. (Master Transpose)

Master Transpose. When the entry is selected, the Master Transpose of the whole instrument is automatically changed. The Master Transpose value saved in the SongBook Entry overrides any Master Transpose setting contained in the referenced Song.

You can change this value by using the TRANSPOSE buttons on the control panel. Any change will be shown after saving the Entry.

**Note:** If the Master Transpose is locked (Global > General Controls > Lock), the Master Transpose will not change.

# **Book Edit 3**

This page is where you select the Synchro and Memory options to be memorized, link a ".TXT" file.

The Book Edit 3 page with a Style-based entry:

SONGBOOK	MT: 0	<no chord≻0<="" th=""><th>-</th></no>	-
Name: A believer		Number	:
Entry Resour	ce: 💷 Open R	lock 2	
Synchro Start: 💌	Unchanged	Linked *	TXT
Synchro Stop: 💌	Unchanged		
Memory: 💌	Unchanged	Reset	Browse
New Song	Del So	writ	e
Book Custom List		ook Book dit 2 Edit 3	Info

The Book Edit 3 page with a Song-based entry:

SONGBOOK	MT: 0	<no chord=""></no>	
Name: 1000gior	ni di noi	Number:	285
Entry Resou	rce: 🖅 Slide Bl	ues	
Synchro Start: 💌	Unchanged	Linked *.T	хт
Synchro Stop: 💌	Unchanged		
Memory: 💌	Unchanged	Reset B	rowse
		)	1
New Song	Del Sor	y ₩rite	
		ook Book Jit 2 Edit 3	Info

#### Synchro Start / Synchro Stop / Memory

The status of these functions can be memorized in a SongBook Entry.

**Note:** If the SongBook Entry is based on a Song, Synchro Start and Synchro Stop are greyed out and cannot be modified, since they have no effect on a Song.

- Unchanged When selecting this SongBook Entry, the status of the corresponding function is left unchanged. Off When selecting this SongBook Entry, the status of the corresponding function is turned off.
- On When selecting this SongBook Entry, the status of the corresponding function is turned on.

#### Linked .TXT

You can select a text (.TXT) file, and link it to the Style or Song associated with the current SongBook Entry. When you select this entry, the text file will be automatically loaded.

Text files can be seen on the display. Since there is no automatic synchronization between this kind of lyrics and the associated songs, you must scroll them manually. This can be accomplished in either of two ways:

- When a ".TXT" file is selected, a special vertical scrollbar appears in the "Lyrics" page. Touch it to scroll through the text during the performance. See the "Lyrics, Score, Markers" chapter on page 310.
- Scrolling is also possible by means of the Text Page Down/ Up command, that can be assigned to a Footswitch or Assignable Switch.

This section of the Book Edit 3 page contains two buttons:

- Reset Touch this buttons to unlink the text file from the entry.
- Browse Touch this button to open a standard File Selector, and select a ".TXT" file to be linked to the current SongBook Entry.

After selection, the name of the linked text file appears above the two buttons.



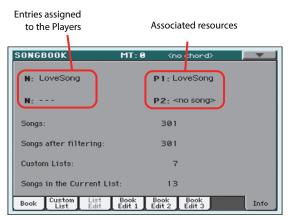
# Info

Use the Info page to see the name of the selected entry, the associated resource(s), the total number of Songs in the SongBook, the number of filtered entries, the number of available Custom Lists, and the number of Songs in the current list.

• In case of an entry based on a Style:

Selected entry	Associated resource		
SONGBOOK N: A day in Paradise Style: Pop Ballad	M.T: 8 (no chord)	-	
Songs:	300		
Songs after filtering:	300		
Custom Lists:	9		
Songs in the Current Li	st: 13		
Book Custom List List Edit	Book Book Book Edit 1 Edit 2 Edit 3	Info	

In case of an entry based on a Song in Standard MIDI File or MP3 format:



#### Selected entry

This parameter shows the currently selected entry. If it is blank (---), the latest selected entry has been modified, or no entry has been selected.

#### Associated resource

Style, Standard MIDI File or MP3 file associated to the selected entry.

#### Songs

Total number of entries in the SongBook list.

#### Songs after filtering

This parameter shows the number of entries shown in the "Book" page, after applying the selected filter. If no filter is selected, this matches the total number of entries in the Song-Book list (see previous parameter).

#### **Custom Lists**

This parameter shows the number of available Custom Lists.

#### Songs in the Current List

Number of entries in the selected Custom List.

# Page menu

Touch the page menu icon to open the menu. Touch a command to select it. Touch anywhere in the display to close the menu without selecting a command.

Show Artist (now Genre)
Show Song Number (now Key)
Enable List Edit
Export as Text File
Init. SongBook

#### **Show Artist/Genre**

Select this command to toggle between the Artist and Genre column on the SongBook list, appearing in the "Book" and "Custom List" pages.

#### Show Number/Key

Select this command to toggle between the Number and Key column on the SongBook list, appearing in the "Book" and "Custom List" pages.

#### **Enable List Edit**

Select this command, and make the checkmark appear, to make the List Edit page available.

#### Export as text file

*Only available when the Book or Custom List pages are selected.* Select this command to open the Export dialog box, and save the Song-Book or Custom List as a text file. The selected filtering will be applied to the exported list, assuming the Filter button is checked.

The dialog box is a little different, depending on the page where you selected this command.

Selected from the "Book" page:

Export as Text File		
Exporting current SongBook view		
▼ DISK		
File name:		
TNEWNAME		
Cancel OK		

Selected from the "Custom List" page:

Export as Text File		
Exporting current List		
• DISK		
File name:		
T NEWNAME		
Cancel		

Touch the **T** (Text Edit) button to open the Text Edit window and assign a name to the text file to be saved to a storage device.

Then, select either the internal storage memory to save the file.

• Touch OK to confirm.

#### Init SongBook

Select this command to erase the SongBook list and start with a new, blank list.

*Warning:* Before initializing the SongBook list, save the older one with one of the Media > Save operations.

# **SongBook Entries and the MIDI**

SongBook Entries can be remotely selected via MIDI. Furthermore, MIDI messages can be sent via MIDI when choosing a SongBook Entry.

This is useful to synchronize Pa3XLe to an external editor or digital music sheet reader (like BauM Software's SongBook+ for the iPad or Zubersoft's MobileSheets for Android).

# **Setting the special Control MIDI channel**

A special MIDI channel used as the "Control" channel is needed to send MIDI messages to select the SongBook Entries, or to receive MIDI messages when selecting them.

First of all, choose a MIDI Preset to quickly configure the Control channel. Go to the Global > MIDI > General Controls page and choose a MIDI Preset where to save your settings.

Then, choose a MIDI IN channel as the "Control" channel. Go to the Global > MIDI > Midi In Channel page, and assign the Control option to one of the sixteen available MIDI channels (usually one of the higher-numbered ones, for example 16).

After having set the MIDI IN channel, choose a MIDI OUT channel as the "Control" channel. Go to the Global > MIDI > Midi Out Channel page, and assign the Control option to one of the sixteen available MIDI channels (the same as on the MIDI IN will work fine).

When done, save these settings to the current MIDI Preset by choosing the "Write Midi Preset" command from the page menu.

# **Selecting SongBook Entries via MIDI**

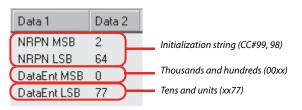
When you are ready to remotely select SongBook Entries, switch to the Style Play or Song Play mode.

At this point, Pa3XLe must receive on the special Control channel the NRPN Control Change messages #99 (MSB, with value 2) and #98 (LSB, with value 64) in fast succession, as an initialization string. This string must be sent only once, unless another NRPN control is sent on the same MIDI channel before selecting a different SongBook Entry.

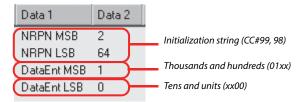
After the initialization string has been sent, you must send the selection string, made of two Control Change messages: CC#06 (Data Entry MSB) for the thousands and hundreds, and CC#38 (Data Entry LSB) for the tens and units. The range of the Data Entry controls, in this case, is  $0\sim99$  (instead of the typical  $0\sim127$ ).

The following examples show some typical situations.

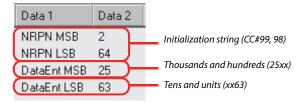
• Send the following string to select SongBook Entry #77:



Send the following string to select SongBook Entry #100:



Send the following string to select SongBook Entry #2563:



# Sending MIDI messages when selecting Song-Book Entries

When the special Control channel is assigned to one of the MIDI OUT channels, MIDI messages are sent on this channel when choosing a SongBook Entry. The messages sent when selecting a SongBook Entry are the following:

• An initialization strings, made of the NRPN Control Change messages #99 (MSB, with value 2) and #98 (LSB, with value 64) in fast succession.

• A selection string, made of the two Control Change messages CC#06 (Data Entry MSB) for the thousands and hundreds, and CC#38 (Data Entry LSB) for the tens and units. The range of the Data Entry controls, in this case, is 0~99 (instead of the typical 0~127).

# Lyrics, Score, Markers

By pressing the LYRICS button, you can see lyrics in Style Play mode, lyrics and chord abbreviations in Song Play mode. The SCORE button will let you see a traditional score in the Song Play mode. Pressing both MARKER buttons will give you access to the markers in the Song Play mode.

# **Selected Player**

You can always use the Player 1 and Player 2 buttons in the top right corner of the display to select a Player whose Song to show. Player 1 is orange, while Player 2 is blue.



When moving the X-FADER, the shown score may change. When the X-FADER is fully moved to the left, the score for Player 1 is shown; when the X-FADER is fully moved to the right, the score for Player 2 is shown instead.

**Note:** You can have Player 2 selected in the Main page of the Song Play mode, and Player 1 selected in the Lyrics page, or vice-versa. This way, you can select a Song whose lyrics, score or markers to display on the external video monitor, while selecting a different player for editing operations.

# Lyrics page

Open the Lyrics page by pressing the LYRICS button. This page shows the lyrics in Style Play mode, lyrics and chord abbreviations in the Song Play mode.

# **Viewing lyrics and chords with Songs**

You can see the following types of lyrics and chords:

- Lyrics contained in a Standard MIDI File or Karaoke[™] file as Lyrics events, or in an MP3 file with Lyrics (in ID3 format – see www.id3.org).
- Lyrics contained in a ".CDG" file, loaded with an MP3 file with the same name. When a ".CDG" file exists in the same directory as an MP3 file, and shares exactly the same name, it will be loaded with the "MP3" file.
- Lyrics contained in a ".TXT" file, loaded with a Standard MIDI File, Karaoke or MP3 file with the same name. When a ".TXT" file exists in the same directory as a Standard MIDI File or MP3 file, and shares exactly the same name, it is loaded with the ".MID" or "MP3" file (see "Text files loaded with Standard MIDI Files and MP3 files" on page 312).
- Lyrics contained in a ".TXT" file linked to the latestselected SongBook Entry (see "Linked .TXT" on page 307).
- When no lyrics data is contained in the Song, or linked to a SongBook Entry, you can see lyrics contained in a ".TXT"

file loaded at any time after selecting a Song (see "On-the-fly TXT loading" below).

This is the priority of lyrics data shown in the display:

- a) CDG file contained in the same folder as the MP3 file, *over-riding*...
- b) TXT file linked to a SongBook Entry, overriding...
- c) TXT file contained in the same folder as the Standard MIDI File or MP3 file, recalled by a SongBook Entry, *overriding*...
- d) Lyrics events contained in the Standard MIDI File or MP3 file.

*Hint:* If you do not want to see the TXT file or the CDG file, and prefer to see the Lyrics data, rename or delete the TXT or CDG file, or move it to a different folder.

### **Viewing lyrics with the Styles**

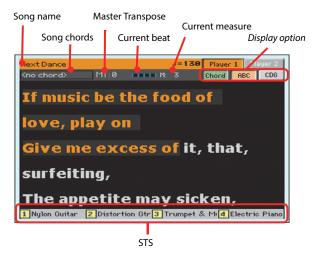
Lyrics can be associated to a Style as a ".TXT" file. When in this page, you can see:

• Lyrics contained in a ".TXT" file linked to the latest-selected Style-based SongBook Entry (see "Linked .TXT" on page 307).

• Lyrics contained in a ".TXT" file loaded after selecting a Style (see "On-the-fly TXT loading" below).

# The Lyrics page in detail

Lyrics will be shown only if they are compatible with a standard format that Pa3XLe can understand.



While the Song is playing, Lyrics contained in a Standard MIDI File or MP3 file scroll in the display. Chord abbreviations (if any) will appear above the lyrics, in time with the music (depending on the status of the "Chord" button). Lyrics at the current position are highlighted.

If the text has been loaded as a ".TXT' file, it will not scroll automatically while the Song is playing back. You must scroll it with the VALUE DIAL or the vertical scrollbar. As an alternative, you can use an assignable switch or footswitch, with the Text Page Up or Text Page Down functions assigned, to scroll (respectively) to the previous or next text page. To exit from this page, press either the LYRICS or the EXIT button.

#### Song chords

Chords contained in the Standard MIDI File (if any). This indicator may be easier to read than chords shown within the lyrics.

When changing the Master Transpose, chord abbreviations contained in a Standard MIDI File are transposed, and correctly shown in the display. Master Transpose must be activated on the Player, but not on the Keyboard. See "Tuning > Transpose Control" on page 262.



#### **Master Transpose**

Master transpose value in semitones. This value can be changed using the TRANSPOSE buttons on the control panel.

#### **Current beat**

Standard MIDI Files only. Currently playing beat.

#### **Current measure**

Standard MIDI Files only. Current measure number.

#### STS

Name of the four selected Single Touch Settings (STS). Touch one of them to select it.

#### Chord

If this button is depressed, chords are shown above lyrics in the display – provided the Standard MIDI File contains them.

#### ABC

Size of the fonts. You can choose between a smaller and a bigger font.

#### CGD

Touch this button to show the lyrics contained in the associated CDG file.

### Text in MP3+CGD files

When a ".CDG" file with the same name exists in the same directory as an MP3 file, it will be loaded with the "MP3" file, and can be seen in the Lyrics page.

As an example, if the file "MYSONG.CDG" exists in the same directory as the "MYSONG.MP3" file, it is loaded together with the matching ".MP3" file.

Text will scroll automatically while the Song is playing back.

**Note:** When a ".CDG" file is loaded with the Song, it overrides any included Lyrics data.

# Text files loaded with Standard MIDI Files and MP3 files

When a ".TXT" file with the same name exists in the same directory as a Standard MIDI File or MP3 file, it will be loaded with the ".MID" or "MP3" file, and can be seen in the Lyrics page.

As an example, if the file "MYSONG.TXT" exists in the same directory as the "MYSONG.MID" or "MYSONG.MP3" file, it is loaded together with the matching ".MID" or ".MP3" file.

However, unlike ordinary Lyrics, the text will not scroll automatically while the Song is playing back. You must scroll it with the scrollbar or the VALUE DIAL. As an alternative, you can use an assignable switch or footswitch, with the Text Page Up or Text Page Down functions assigned, to scroll (respectively) to the previous or next text page.

Text files must be formatted with non-proportional fonts (like Courier, Courier New, Monaco, or any other "monospaced" font). Up to 24 characters can fit a single line of text when using the bigger font size, 41 when using the smaller font size (see "ABC" above).

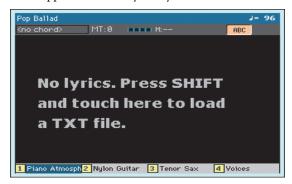
**Note:** When a ".TXT" file is loaded with the Song, it overrides any included Lyrics data.

# **On-the-fly TXT loading**

When a Song does not contain any Lyrics metadata or isn't linked to any ".TXT" file, the "No lyrics. Press SHIFT and touch here to load a TXT file" message appears in the display when you press the LYRICS button.



The same happens while in Style Play mode.

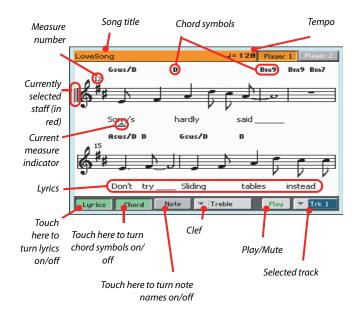


When this message appears, and you want to load a ".TXT" file, keep the SHIFT button pressed and touch the center of the display. A standard file selector will appear, and will let you look for a ".TXT" file to be loaded.

*Hint:* You can use the Search function to search a ".TXT" file in the various storage devices. See the relevant chapter.

# Score page

When you are in Song Play mode, and you are playing a Standard MIDI File, you can open the Score page by pressing the SCORE button.



To exit from this page, press either the SCORE or the EXIT button.

Note: Master or Track Transpose do not affect the Score display.

#### Song title

Name of the Song.

#### Tempo

Current Tempo of the Song (in BPM, Beats Per Minute).

#### Staff

The selected track is shown as traditional music notation. Depending on the content of the track, either notes or chords are shown. Pa3XLe takes care for you of 'cleaning-up' the score, so that it is always easy to read.

Several automatic operations are carried on to clean-up the score: Pa3XLe automatically quantizes to 1/16 notes, detects triplets, avoids note overlaps, correctly notates syncopation, and draws beams according to the time signature. In addition, spacing and measure length are dynamic, and single, double and end measure bars are automatically added.

If a KeySign (Key Signature) event is found at position '001.01.000' of the Song's Master track, the correct key signature is also shown.

#### **Currently selected staff marker**

This red vertical line shows the approximate position of the playback, by indicating the current staff in play.

#### **Current measure indicator**

This red triangle shows the current measure in play.

#### Lyrics button

Touch this button to make the lyrics (if available) appear or disappear.

#### **Chord button**

Touch this button to make the chord symbols (if available) appear or disappear. Chords are shown either according to the English or Italian system, depending on the selected language (see "General Controls > Interface" on page 254).

#### Note button

Touch this button to make the note name appear or disappear next to each note. Note names are shown either according to the English or Italian system, depending on the selected language (see "General Controls > Interface" on page 254).

#### Clef

Touch here to open a pop-up menu, where to choose a clef from. Available clefs are:

Treble	Standard Treble clef (र्द्ध).
Treble+8	Treble clef with transposition one octave upper.
Treble-8	Treble clef with transposition one octave lower.
Bass	Standard Bass clef (ᢓ).
Bass-8	Bass clef with transposition one octave lower.

#### Play/Mute

Use this button to let the selected track play, or to mute it. If the track is muted, the score is still shown, so that you can play or sing it.

**Hint:** The "Melody Mute" function, that can be assigned to an assignable switch or footswitch, allows for muting the melody track of a Song (default: Track 4, see "SMF Melody Track" on page 259). If your song has the melody part assigned to the same track, you can mute or unmute it by using this button, or the assigned switch/ pedal.

#### Selected track

Touch here to open a pop-up menu where to chose the track to be shown from.

*Hint:* The backing vocals are often assigned to Track 5.

# Markers page

Open the Marker page by pressing both the MARKER (that is, LYRICS+SCORE) buttons. This page shows the Song Markers in the Song Play mode and in the SongBook.

Standard Song Markers contained in a Standard MIDI File can be read with the Pa3XLe, to quickly jump to a given position in the Song. Additionally, you can set your own marker points onthe-fly.

LoveSong				Player 1	Player 2
<no chord=""></no>	MT:0	M:			
M:002.01.000	Intro				<u></u>
M:010.01.000	Verse 1				
M:016.01.000	Bridge 1				
M:018.01.000	Chorus 1				
M:026.01.000	Verse 2				
M:032.01.000	Bridge 2				-
Add D	elete 2 Nylon G	Edit uitar <mark>3</mark> Ten	<b>Save</b> or Sax	Mk.	Auto Scroll

To exit from this page, press the EXIT button.

#### How to add a marker:

- 1. Press the MARKER button to open the Markers page.
- 2. Start the Song by pressing the PLAY/STOP button (however, markers can be added even while the player is not running).
- **3.** When you reach the position you want to save as a marker, touch the Add button in the display.

• If you touch Add within the first beats of the measure, the beginning of the current measure is saved as a marker.

• If you touch Add within the last beat of the measure, the beginning of the following measure is saved as a marker.

- 4. Do the same for any following marker.
- 5. Stop the Song by pressing the PLAY/STOP button.

#### How to jump to a saved marker:

- 1. If you like, start the Song again.
- 2. When you want to jump to a saved marker (while the Song is stopped or playing), touch it in the display. The Song will jump to the saved position at the beginning of the next measure.

#### How to edit a marker:

- **1.** Touch the marker to be edited in the display.
- **2.** Touch the Edit button in the display to set the marker to edit. The Edit Marker window will appear.

Edit Marker		
Position: 001.01.000		
Name: T Marker		
Cancel	ОК	

- **3.** While in Edit Marker window, you can edit the name and position of the marker being edited.
- **4.** Save the markers (as described below).

#### How to delete a marker:

- 1. Touch the marker to be deleted in the display.
- 2. Touch the Delete button in the display to delete the selected marker.
- **3.** Save the markers (as described below).

#### How to save the markers:

Touch the "Save Mk" button in the display to save all markers.

If you are not in the Lyrics/Score page, choose the "Save Song Marker" command from the page menu. The markers will be saved into the Standard MIDI File.

#### **Auto Scroll**

Check this parameter if you want the current marker to be always visible in the display during playback, by making the list of markers scroll automatically.

Don't check this parameter, if you prefer to prevent the list from scrolling. This is useful if you want a marker to remain in the display, ready to be selected as soon as you want to jump to its position, with no need to scroll the list to catch it out.

#### STS

Name of the four selected Single Touch Settings (STS). Touch one of them to select it.

# MIDI

# What is MIDI?

Here is a brief overview of MIDI, as related to the Pa3XLe. If interested, you may find more information on the general use of MIDI in the various specialized magazines and dedicated books.

### In general

MIDI stands for Musical Instruments Digital Interface. This interface lets you connect two musical instruments, or a computer and various musical instruments.

From a software point of view, MIDI is a protocol that describes messages for playing notes and controlling them. It is sort of a grammar to let different instruments and computers speak the same language, and let the one tell the other what to do.

From a physical point of view, MIDI messages can travel across two different types of connectors on the Pa3XLe:

• The MIDI interface, that is composed of two different connectors. The MIDI IN receives data from another device; the MIDI OUT sends data to another device.

• The USB Device port, that replaces both the MIDI IN and OUT connectors with a single port and cable. To use it for MIDI connection, it is advisable to install the KORG USB-MIDI Driver supplied in the Accessory Disc, or downloadable from our web site (www.korg.com).

Both these devices are active at the same time. So, you can connect the Pa3XLe to a computer via the USB port, and connect another instrument's MIDI IN port to the MIDI THRU port of the Pa3XLe.

# **Channels and messages**

Basically, a MIDI or USB cable transmits 16 channels of data. Think to each MIDI channel as a TV channel: the receiver must be set on the same channel of the transmitter. The same happens with MIDI messages: when you send a Note On message on channel 1, it will be received on channel 1 only. This allows for multitimbricity: you can have more than one sound playing on the same MIDI instrument.

There are various messages, but here are the most commonly used:

**Note On** – This message instructs an instrument to play a note on a specific channel. Notes have both a name (C4 standing for the center C) and a number (60 being the equivalent for C4). A Note Off message is often used to say the note has been released. In some cases, a Note On with value "0" is used instead.

Together with the Note On message, a Velocity value is always sent. This value tells the instrument how loud the note must play.

**Pitch Bend (PB)** – You can generate this message acting on the joystick (X direction). The pitch is translated up or down.

**Program Change (PC)** – When you select a Sound, a Program Change message is generated on the channel. Use this message,

together with Control Change 00 and 32, to remotely select Pa3XLe data from a sequencer or a master keyboard.

**Control Change (CC)** – This is a wide array of messages, controlling most of the instrument parameters. Some examples:

- CC00, or Bank Select MSB, and CC32, or Bank Select LSB. This message pair is used to select a Sound Bank. Together with the Program Change message, they are used to select a Sound.
- CC01, or Modulation. This is the equivalent of pressing up the joystick. A vibrato effect is usually triggered on.
- CC07, or Master Volume. Use this controller to set the channel's volume.
- CC10, or Pan. This one sets the channel's position on the stereo front.
- CC11, or Expression. Use this controller to set the relative volume of tracks, with the maximum value matching the current setting of the CC07 control.
- CC64, or Damper Pedal. Use this controller to simulate the Damper pedal.

### Tempo

Tempo is a global MIDI message, that is not tied to a particular channel. Each Song includes Tempo data.

# Lyrics

Lyric Meta Events are intended to display text together with the music. Pa3XLe can read many of the available Lyrics format on the market.

# What is MIDI Over USB?

You can let the Pa3XLe communicate MIDI data with a computer using the USB Device port instead of the MIDI ports. This way, you can connect your Pa3XLe to a personal computer without the need of a dedicated MIDI interface.

Most Pa3XLe MIDI features can be used on a Windows or Mac computer with no need of special software. However, for full and easy use of all MIDI features, we suggest you to install the "KO-RG USB MIDI Driver", a special software that you can find in the Accessory Disc that comes with your Pa3XLe. Relevant instructions come with the software itself. See "Installing the Korg USB MIDI Driver" on page 446.

# **Standard MIDI Files**

Standard MIDI Files (a.k.a. SMF) are a practical way of exchanging songs between different instruments and computers. Pa3XLe uses the SMF format as its default song format, so reading a song from a computer, or saving a song that a computer software can read, is not a problem at all.

The internal Players are compatible with SMFs format 0 (all data in one track; it is the most common format) and 1 (multitrack). Pa3XLe can read SMFs in Song Play mode and modify/save them in Sequencer mode. It can save a Song in SMF format 0 from Sequencer mode.

When in Song Play mode, Pa3XLe can also display SMF lyrics in Ketron, M-Live (Midisoft), Tune1000, Edirol, GMX, HitBit, and XF formats, and the chord abbreviations of SMF in Ketron, M-Live (Midisoft), GMX, and XF format.

**Note:** The above trademarks are the property of their respective holders. No endorsement is intended by their inclusion in this list.

Standard MIDI Files usually have the ".MID" or ".KAR" filename extension. The .KAR extension is reserved for files conforming with the Karaoke standard.

# **The General MIDI standard**

Some years ago, the musical instruments world felt a need for some further standardization. Then, the General MIDI Standard (GM) was born. This extension of the basic MIDI sets new rules for compatibility between instruments:

- A minimum of 16 MIDI channels was required.
- A basic set of 128 Sounds, correctly ordered, was mandatory.
- The Drum Kit had a standard order.
- Channel 10 had to be devoted to the Drum Kit.

A most recent extension is the GM2, that further expands the Sounds database. Pa3XLe is sound-compatible with the GM2 standard.

# **The Global channel**

Any channels with the Global option assigned (see "MIDI > MIDI In Channels" on page 266) can simulate the Pa3XLe integrated keyboard. When the Pa3XLe is connected to a master keyboard, transmission should take place over the Global channel of the Pa3XLe.

The MIDI messages received over a Global channel and not over a standard channel are affected by the status of the SPLIT button, as well from the split point. Therefore, if the SPLIT button LED is lit up, notes arriving to Pa3XLe over this channel will be divided by the split point into the Upper (above the split point) and Lower (below the split point) parts.

Notes arriving to a Global channel are used for the chord recognition of the automatic accompaniment. If the SPLIT LED is turned on, only the notes below the split point will be used. These notes will be combined with the ones of the special Chord 1 and Chord 2 channels.

# The Chord 1 and Chord 2 channels

You can set two special Chord channels (see page 266) to send Pa3XLe notes for chord recognition. These notes will be combined with the notes that go through the channel set as Global (Global notes are recognized only under the split point, if the SPLIT LED is lit up).

The Chord channels are not affected by the split point. All the notes – both above and below the split point – will be sent to the chord recognition.

However, the status of the SPLIT button has a particular effect on the way chords are recognized on the Chord channels:

- When the SPLIT LED is turned on (Lower mode), the chord recognition mode will be set by the "Chord Recognition" parameter in the Global > Mode Preferences > Style page (see page 258). You can play a single note to play a Major chord.
- When the SPLIT LED is turned off (Full Upper mode), the chord recognition mode will always be Fingered or Expert, depending on the previous situation. You have to play at least three notes in order for the chord to be detected.

These two channels are especially useful for accordion players, that wish to assign a different Chord channel to the chords and the bass played with the left hand. This way, chords and bass will both contribute to the formation of chords for the chord recognition of the automatic accompaniment.

# **The Control channel**

You can set a MIDI IN channel as the Control channel (see page 266), to select Styles, Performance and SongBook Entries from an external device. See the Appendix for a list of messages corresponding to Pa3XLe internal data, and the "SongBook" chapter for information about selecting SongBook Entries.

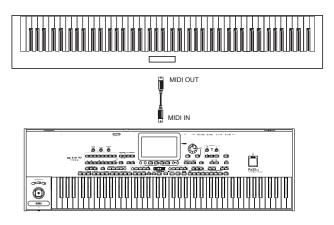
# **MIDI Presets**

You can play Pa3XLe with an external controller, and use it simply as a powerful sound generator. To help you configure the MIDI channels, we have provided a set of MIDI Presets that can be accessed in the Global > MIDI > General Controls page (see "Preset" on page 264).

We recommend you to consider each MIDI Preset as a starting point you can freely tweak. Once you have selected the most appropriate MIDI Preset for the connection to be made, you can modify the parameters as needed and save them into a MIDI Preset (see "Write Midi Preset dialog box" on page 281).

# **Connecting Pa3XLe to a Master keyboard**

You can control Pa3XLe with a master keyboard or any other MIDI keyboard. You only need to connect the MIDI OUT connector of the master keyboard to the MIDI IN connector of Pa3XLe. The master keyboard will become the integrated keyboard of the Pa3XLe if it transmits over the same channel programmed as Global in Pa3XLe.



If the master keyboard transmits over the Global channel of Pa3XLe, the split point and the status of the SPLIT button in the control panel will affect the notes received from the master keyboard.

# **Connections and settings**

To connect the master keyboard to Pa3XLe follow this procedure:

- **1.** Connect the MIDI OUT connector of the master keyboard to the MIDI IN connector of the Pa3XLe.
- Program the master keyboard to transmit over the Global channel of Pa3XLe (see "MIDI > MIDI In Channels" on page 266).

For information on programming the master keyboard, please see the master keyboard's own user manual.

3. Select the "Master Keyboard" MIDI Preset. You can do this by going to the "MIDI > General Controls" page of the Global mode. Note that this MIDI Preset will be remain unchanged even when the instrument enters standby.

**Note:** Settings may change when new Global data is loaded from disk. To protect settings from loading, use the Global Protect function (see "Global Protect" on page 260).

**4.** If needed, press one of the buttons in the MODE section to go to the desired operative mode.

# **Connecting Pa3XLe to a MIDI accordion**

There are various types of MIDI accordions, each one requiring different MIDI settings. Pa3XLe is provided with a series of "Accordion" MIDI Setups, each one suitable for a different MIDI accordion (see page 264).

### **Connection and settings**

To connect the accordion to the Pa3XLe follow this procedure:

- **1.** Connect the MIDI OUT connector of the accordion to the MIDI IN connector of Pa3XLe.
- Select one of the available "Accordion" MIDI Preset parameter. You can do this by going to the "MIDI > General Controls" page of the Global mode. Note that this MIDI Preset will be remain unchanged even when the instrument enters standby.

**Note:** Settings may change when new Global data is loaded from disk. To protect settings from loading, use the Global Protect function (see "Global Protect" on page 260).

**3.** If needed, press one of the buttons in the MODE section to go to the desired operative mode.

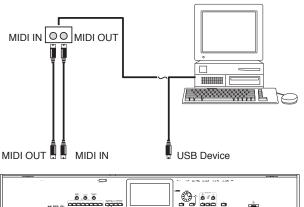
# **Connecting Pa3XLe to an external sequencer**

You can program a new song on an external sequencer, using Pa3XLe as a multi-timbral expander.

### **Connections and settings**

In order to connect Pa3XLe to a computer, you need a computer with either a MIDI interface or a USB port.

- 1. In case of an USB connection, install the Korg USB MIDI Driver, as explained in "Installing the Korg USB MIDI Driver" on page 446.
- **2.** Connect Pa3XLe and the computer either via the USB Device port, or via the MIDI ports and a MIDI interface, as shown in the following diagram.





- **3.** Activate the "MIDI Thru" function on the external sequencer. Please refer to the sequencer's user manual.
- 4. On Pa3XLe, select the "Default" MIDI Preset. You can do this by going to the "MIDI > General Controls" page of the Global mode. Note that this MIDI Preset will be remain unchanged even when the instrument enters standby.
- Go to the "MIDI > General Controls" page, and uncheck the "Local Control On" parameter (see page 265). This is called the "Local Off status".

**Note:** Settings may change when new Global data is loaded from disk. To protect settings from loading, use the Global Protect function (see "Global Protect" on page 260).

- 6. Press SEQUENCER to go to the Sequencer mode.
- **7.** Play the keyboard. Notes played on the keyboard will go from the MIDI OUT of Pa3XLe to the MIDI IN of the computer/MIDI interface (or from the USB port of Pa3XLe to the USB port of the computer).

Notes generated by the computer (i.e. a song played by its sequencer) are sent through the MIDI OUT of the MIDI interface to the MIDI IN connector of Pa3XLe (or from the USB port of the computer to the USB port of Pa3XLe).

# **The Local Off**

When Pa3XLe is connected to an external sequencer, we recommend you to set the Pa3XLe in Local Off mode (see "Local Control On" on page 265) to avoid that the notes are simultaneously played by the keyboard and by the MIDI events sent by the external sequencer.

When Pa3XLe is in Local Off, the keyboard of Pa3XLe transmits data to the external sequencer, but not to the internal sound generation. The sequencer will receive notes played on the keyboard of Pa3XLe and will send them to the selected track of the song. The track will then transmit data to the internal sound generation of Pa3XLe.

**Note:** In order to send data to the sound generation of Pa3XLe, the "MIDI Thru" function must be activated in the external sequencer (normally active; the name may be different according to the type of sequencer). For more information refer to the instructions manual of the sequencer.

# **The Sounds**

The song that is played back by the sequencer can select Pa3XLe Sounds through the MIDI messages Bank Select MSB, Bank Select LSB (bank selection, two messages), and Program Change (Sound selection). For a list of Sounds and MIDI values, see "Sounds" on page 325.

A suggestion for those who program songs on computer: even though it is not mandatory, for a wider compatibility you should set the bass on channel 2, melody on channel 4, drum kit on channel 10, controls for an harmonizer on channel 5.

# Playing another instrument with Pa3XLe

You can use Pa3XLe as the master controller for your MIDI setup.

- **1.** Connect the MIDI OUT connector of Pa3XLe to the other instrument's MIDI IN.
- 2. Set the other instrument to the same channels you want to play from Pa3XLe. For example, if you wish to play the Upper 1 and Upper 2 tracks with sounds of the other instrument, enable the other instrument to receive on the same channels Pa3XLe is transmitting from the Upper 1 and Upper 2 tracks (by default, channels 1 and 2).
- **3.** Set the master volume of the other instrument with its own volume controls.
- **4.** Mute/unmute any track right from the Pa3XLe. Adjust each track's volume by using the Pa3XLe (sliders on the display).
- **5.** Play the keyboard of Pa3XLe.

# **The Keyboard**

The keyboard of Pa3XLe can drive up to four tracks via the MIDI OUT (Upper 1-3 and Lower). MIDI output channels are set in Global mode (see "MIDI > MIDI Out Channels" on page 267).

As per the default situation ("1-Default" MIDI Preset), each of Pa3XLe Keyboard tracks transmit on the following channels:

Track	Out Channel
Upper1	1
Upper2	2
Upper3	3
Lower	4

When a track is muted, it cannot transmit any MIDI data to an external expander or sequencer connected to the MIDI OUT of Pa3XLe.

To only hear the expander's sounds, you can lower the MASTER VOLUME control on the Pa3XLe, or set the Keyboard tracks to the External status (see "Track Controls > Mode" on page 196).

# **The Player**

Any Player's track can drive a channel on an external instrument. To set each track's MIDI output channel, see "MIDI > MIDI Out Channels" on page 267.

To only hear the expander's sounds, you can lower the MASTER VOLUME control on the Pa3XLe, or set the Song tracks to the External status (see "Track Controls > Mode" on page 196).

Select the "Player" MIDI Preset to set the channels as follows:

Track	Out Channel
Song 116	116

### **The Arranger**

One of the most interesting aspect of MIDI, is that you can use your Pa3XLe to play an external instrument with its onboard arranger. Yes, it's hard to beat the audio quality of Pa3XLe, but you could wish to use that old faithful synth you are still accustomed to...

To assign some of the Style tracks of Pa3XLe to an external instrument, set them to the External status (see "Track Controls > Mode" on page 196).

Select the "Default" MIDI Preset to set the channels as follows (this is the default status of Pa3XLe):

Track	Out Channel
Bass	9
Drums	10
Percussion	11
Acc15	1216



## Factory data

### Styles

This list shows the Styles and their position number inside the bank.

#	Name
Bank:	Рор
1	70's Guitar Pop
2	Shadow Pop
3	Retro Beat
4	Pop Evergreen
5	Pop Hit
6	Pop Beat
7	Standard 8 Beat
8	Standard 16 Beat
9	Guitar Pop
10	Guitar Beat
11	Modern Beat
12	Pop Ballad
13	Pop Chart 1
14	Pop Chart 2
15	Easy Pop 1
16	Easy Pop 2
17	British Pop
18	Slow Latin Pop
19	6/8 Slow Pop
20	12/8 Pop
21	Pop Shuffle 1
22	Pop Shuffle 2
23	Easy Beat 1
24	Easy Beat 2
25	Real 8 Beat
26	Real 16 Beat
27	Soft 8 Beat
28	Soft 16 Beat
29	Analog Beat 1
30	Analog Beat 2
31	8 Beat Analog 1
32	8 Beat Analog 2
33	Pop Funk 1
34	Pop Funk 2
Bank:	Ballad
1	Modern Ballad 1
2	Modern Ballad 2
3	Moonlight Ballad
4	Soft Ballad
5	Piano Ballad
6	70's Ballad
7	Easy Ballad
4 5 6	Soft Ballad Piano Ballad 70's Ballad

#	Name
8	Organ Ballad
9	Folk Ballad
10	Orchestral Bld
11	Funky Ballad
12	Blues Ballad
13	Analog Ballad 1
14	Analog Ballad 2
15	Rock Ballad 1
16	Rock Ballad 2
17	Waltz Ballad
18	6/8 Slow
19	6/8 Ballad
20	6/8 Brush Bld
21	Pop Hit Ballad
22	Oriental Ballad
23	Blue Ballad
24	Groove Ballad
Bank:	Ballroom
1	Quick Step
2	Paso Dance
3	Jive 1
4	Jive 2
5	Argentina Tango
6	Modern Tango
7	Slow Fox
8	Organ Foxtrot
9	Slow Waltz 1
10	Slow Waltz 2
11	Slow Waltz 3
12	Organ Waltz
13	Foxtrot 1
14	Foxtrot 2
15	Slow Band
16	Big Band Jump
17	Big Band Fox
18	Big Band 40's
19	Fox Shuffle 1
20	Fox Shuffle 2
21	Italian Tango 1
22	Italian Tango 2
23	Twist
24	Hully Gully
25	50's Fox
26	Italian Fox
27	Irish Fox
28	Easy Listening

#	Name
Bank:	Dance
1	70's Disco Remix
2	70's Disco 1
3	70's Disco 2
4	80's Dance
5	90's Dance
6	Electro Dance
7	Dance Chart 1
8	Dance Chart 2
9	Funky Disco
10	Techno
11	Garage
12	House
13	Club House
14	Club Remix
15	Fashion Funk
16	Dance Fever
17	Barry Dance
18	Sister & Girl
19	Philly Disco
20	Miami Disco
21	Love Disco
22	Dance Motown
23	Dance Mix
24	Soca Dancing
25	Disco Gully
26	Disco Latin
27	Oriental Dance
28	НірНор
29	Euro Trance
Bank:	Rock
1	80's Rock
2	Rock Punch
3	Clean Rock
4	Rolling Rock
5	Johnny Rock
6	Rock the Clock
7	Pop Rock
8	English Rock
9	Fire Rock
10	Hard Rock
11	Open Rock 1
12	Open Rock 2
13	Heavy Rock
14	Funky Rock
15	Rock Oldie
	•

#	Name
16	Rock & Roll
17	South Shuffle
18	Slow Latin Rock
19	Latin Rock 1
20	Latin Rock 2
21	Surf Rock
22	60's Rock
23	Slow Rock 1
24	Slow Rock 2
25	60's Slow Rock
26	6/8 Rock
27	Steely Rock
28	Abbey Rock
29	SouthStrait Rock
30	Rock Cha Cha
Bank:	Unplugged
1	Unplugged Heaven
2	Sally Groove
3	Unplugged Ballad 1
4	Unplugged Ballad 2
5	Unplugged Ballad 3
6	Unplugged Slow
7	Acoustic Rock
8	Serenade
9	Unplugged
10	Unplugged Reggae
11	Unplugged 8 Bt
12	Unplugged 16 Bt
13	Unplugged Gtr 1
14	Unplugged Gtr 2
15	Unplugged Gtr 3
16	Unplugged Gtr 4
17	Slide Blues
18	Unplugged Rock
19	Unplugged Latin
20	Unplugged Swing
21	³ / ₄ Unplugged
22	³ / ₄ Acoustic Bld
23	Desert Shuffle
24	Meditando
Bank:	Country
1	Easy Country
2	Country Blues
3	Country Strum
4	Country QuikStep
5	Country Beat 1
6	Country Beat 2
7	Country Rock
8	West Coast
9	Finger Picking
10	³ ⁄ ₄ Country
11	Modern Country

#	Name
12	Country Pop
13	Bar Country
14	Bluegrass
15	Country Boogie
16	Country Shuffle
17	Country 8 Beat
18	Country 16 Beat
19	Country Ballad 1
20	Country Ballad 2
Bank:	Traditional
1	German Waltz 1
2	German Waltz 2
3	German Waltz 3
4	Vienna Waltz
5	Italian Waltz
6	Musette Waltz
7	French Waltz
8	Irish Waltz
9	Laendler Waltz
10	German Polka
11	Italian Polka 1
12	Italian Polka 2
13	Italian Polka 3
14	Italian Mazurka 1
15	Italian Mazurka 2
16	Italian Mazurka 3
17	9/8
18	Vahde
19	2/4 Oyun Ciftetelli
20 21	Halay
21	5/8
22	Oryantal
24	Turkish Pop
25	French March
26	March
Bank:	Latin
1	Samba Enredo
2	Samba Brazil
3	Bossa Nova
4	Classic Salsa
5	Classic Mambo
6	Classic Cha Cha
7	Guajira
8	Guaguancò
9	Timba
10	6/8 Afro
11	Bomba
12	Classic Bachata
13	Classic Merengue
14	Cumbia
15	Joropo

16       Habanera         116       Habanera         117       Rhumba 1         118       Rhumba 2         119       Salsa         200       Latin Big Band         21       Cool Latin Jazz         22       Pop Cha Cha         23       Latin Bolero         24       Latin Vocal         25       Meditation Bossa         26       Organ Bossa         27       OrchestralBossa1         28       OrchestralBossa2         29       Cool Bossa         30       Fast Bossa         31       Bachata         32       Mambo         Bank: Latin Dance         1       Reggaeton 1         2       Reggaeton 2         3       Modern Salsa         4       Latin Dance         5       Lambada         6       Meneaito         7       Macarena         8       Bomba Dance         9       Gipsy Dance         10       Hot Merengue         11       Disco Samba         12       Mambo Party         13       Modern Bossa	#	Name
17Rhumba 118Rhumba 219Salsa20Latin Big Band21Cool Latin Jazz22Pop Cha Cha23Latin Bolero24Latin Vocal25Meditation Bossa26Organ Bossa27OrchestralBossa128OrchestralBossa229Cool Bossa30Fast Bossa31Bachata32MamboBark: Latin Dance1Reggaeton 12Reggaeton 23Modern Salsa4Latin Dance5Lambada6Meneaito7Macarena8Bomba Dance9Gipsy Dance10Hot Merengue11Disco Samba12Mambo Party13Modern Bashata14Disco Cha Cha15Bayon16Club Latino17Modern Bossa18Classic Beguine19Calypso20Andean21Reggae 122Reggae 123Limbo24BambaBank: Jazz11Bigger Band2Serenade Band3Jazz Club4BeBop5Medium Big Band6Fast Big Band7Classic Swing8Acoustic Jazz		
18Rhumba 219Salsa20Latin Big Band21Cool Latin Jazz22Pop Cha Cha23Latin Bolero24Latin Vocal25Meditation Bossa26Organ Bossa27OrchestralBossa128OrchestralBossa229Cool Bossa30Fast Bossa31Bachata32MamboBank: Latin Dance1Reggaeton 12Reggaeton 23Modern Salsa4Latin Dance5Lambada6Meneaito7Macarena8Bomba Dance9Gipsy Dance10Hot Merengue11Disco Samba12Mambo Party13Modern Basha14Disco Cha Cha15Bayon16Club Latino17Modern Bossa18Classic Beguine19Calypso20Andean21Reggae 122Reggae 123Limbo24BambaBank: Jazz11Bigger Band2Serenade Band3Jazz Club4BeBop5Medium Big Band6Fast Big Band7Classic Swing8Acoustic Jazz		
19Salsa20Latin Big Band21Cool Latin Jazz22Pop Cha Cha23Latin Bolero24Latin Vocal25Meditation Bossa26Organ Bossa27OrchestralBossa128OrchestralBossa229Cool Bossa30Fast Bossa31Bachata32MamboBank: Latin Dance1Reggaeton 12Reggaeton 23Modern Salsa4Latin Dance5Lambada6Meneaito7Macarena8Bomba Dance9Gipsy Dance10Hot Merengue11Disco Samba12Mambo Party13Modern Bachata14Disco Cha Cha15Bayon16Club Latino17Modern Bossa18Classic Beguine19Calypso20Andean21Reggae 122Reggae 123Limbo24BambaBank: Jazz11Bigger Band2Serenade Band3Jazz Club4BeBop5Medium Big Band6Fast Big Band7Classic Swing8Acoustic Jazz		
20Latin Big Band21Cool Latin Jazz22Pop Cha Cha23Latin Bolero24Latin Vocal25Meditation Bossa26Organ Bossa27OrchestralBossa128OrchestralBossa229Cool Bossa30Fast Bossa31Bachata32MamboBank: Latin Dance1Reggaeton 12Reggaeton 23Modern Salsa4Latin Dance5Lambada6Meneaito7Macarena8Bomba Dance9Gipsy Dance10Hot Merengue11Disco Samba12Mambo Party13Modern Bachata14Disco Cha Cha15Bayon16Club Latino17Modern Bossa18Classic Beguine19Calypso20Andean21Reggae 122Reggae 223Limbo24BambaBank: Jazz1Bigger Band2Serenade Band3Jazz Club4BeBop5Medium Big Band6Fast Big Band7Classic Swing8Acoustic Jazz		
21Cool Latin Jazz22Pop Cha Cha23Latin Bolero24Latin Vocal25Meditation Bossa26Organ Bossa27OrchestralBossa128OrchestralBossa229Cool Bossa30Fast Bossa31Bachata32MamboBank: Lat Dance1Reggaeton 12Reggaeton 23Modern Salsa4Latin Dance5Lambada6Meneaito7Macarena8Bomba Dance9Gipsy Dance10Hot Merengue11Disco Samba12Mambo Party13Modern Bossa14Disco Cha Cha15Bayon16Club Latino17Modern Bossa18Classic Beguine19Calypso20Andean21Reggae 122Reggae 123Limbo24Bamk: Jazz1Bigger Band2Serenade Band3Jazz Club4BeBop5Medium Big Band6Fast Big Band7Classic Swing8Acoustic Jazz		
22Pop Cha Cha23Latin Bolero24Latin Vocal25Meditation Bossa26Organ Bossa27OrchestralBossa128OrchestralBossa229Cool Bossa30Fast Bossa31Bachata32MamboI1Reggaeton 12Reggaeton 23Modern Salsa4Latin Dance5Lambada6Meneaito7Macarena8Bomba Dance9Gipsy Dance10Hot Merengue11Disco Samba12Mambo Party13Modern Bossa14Disco Cha Cha15Bayon16Club Latino17Modern Bossa18Classic Beguine19Calypso20Andean21Reggae 122Reggae 223Limbo24BambaI1Bigger Band2Serenade Band3Jazz Club4BeBop5Medium Big Band6Fast Big Band7Classic Swing8Acoustic Jazz		-
23Latin Bolero24Latin Vocal25Meditation Bossa26Organ Bossa27OrchestralBossa128OrchestralBossa229Cool Bossa30Fast Bossa31Bachata32MamboBank: Lat. Dance1Reggaeton 12Reggaeton 23Modern Salsa4Latin Dance5Lambada6Meneaito7Macarena8Bomba Dance9Gipsy Dance10Hot Merengue11Disco Samba12Mambo Party13Modern Bachata14Disco Cha Cha15Bayon16Club Latino17Modern Bossa18Classic Beguine19Calypso20Andean21Reggae 122Reggae 223Limbo24BambaBank: Jazz1Bigger Band2Serenade Band3Jazz Club4BeBop5Medium Big Band6Fast Big Band7Classic Swing8Acoustic Jazz		
24Latin Vocal25Meditation Bossa26Organ Bossa27OrchestralBossa128OrchestralBossa229Cool Bossa30Fast Bossa31Bachata32Mambo18Reggaeton 12Reggaeton 23Modern Salsa4Latin Dance5Lambada6Meneaito7Macarena8Bomba Dance9Gipsy Dance10Hot Merengue11Disco Samba12Mambo Party13Modern Bachata14Disco Cha Cha15Bayon16Club Latino17Modern Bossa18Classic Beguine19Calypso20Andean21Reggae 122Reggae 223Limbo24BambaBank: Jazz1Bigger Band2Serenade Band3Jazz Club4Be8op5Medium Big Band6Fast Big Band7Classic Swing8Acoustic Jazz		
25Meditation Bossa26Organ Bossa27OrchestralBossa128OrchestralBossa229Cool Bossa30Fast Bossa31Bachata32MamboMamboReggaeton 12Reggaeton 23Modern Salsa4Latin Dance5Lambada6Meneaito7Macarena8Bomba Dance9Gipsy Dance10Hot Merengue11Disco Samba12Mambo Party13Modern Bachata14Disco Cha Cha15Bayon16Club Latino17Modern Bossa18Classic Beguine19Calypso20Andean21Reggae 122Reggae 223Limbo24BambaBank: Jazz1Bigger Band3Jazz Club4Be8op5Medium Big Band6Fast Big Band7Classic Swing8Acoustic Jazz		
26Organ Bossa27OrchestralBossa128OrchestralBossa229Cool Bossa30Fast Bossa31Bachata32MamboMamboReggaeton 12Reggaeton 23Modern Salsa4Latin Dance5Lambada6Meneaito7Macarena8Bomba Dance9Gipsy Dance10Hot Merengue11Disco Samba12Mambo Party13Modern Bachata14Disco Cha Cha15Bayon16Club Latino17Modern Bossa18Classic Beguine19Calypso20Andean21Reggae 122Reggae 223Limbo24BambaBank: Jazz1Bigger Band2Serenade Band3Jazz Club4BeBop5Medium Big Band6Fast Big Band7Classic Swing8Acoustic Jazz		
27OrchestralBossa128OrchestralBossa229Cool Bossa30Fast Bossa31Bachata32MamboBank: Lat. Dance1Reggaeton 12Reggaeton 23Modern Salsa4Latin Dance5Lambada6Meneaito7Macarena8Bomba Dance9Gipsy Dance10Hot Merengue11Disco Samba12Mambo Party13Modern Bachata14Disco Cha Cha15Bayon16Club Latino17Modern Bossa18Classic Beguine19Calypso20Andean21Reggae 122Reggae 223Limbo24BambaBank: Jazz1Bigger Band2Serenade Band3Jazz Club4BeBop5Medium Big Band6Fast Big Band7Classic Swing8Acoustic Jazz		
28OrchestralBossa229Cool Bossa30Fast Bossa31Bachata32MamboBank: Lat. Dance1Reggaeton 12Reggaeton 23Modern Salsa4Latin Dance5Lambada6Meneaito7Macarena8Bomba Dance9Gipsy Dance10Hot Merengue11Disco Samba12Mambo Party13Modern Bachata14Disco Cha Cha15Bayon16Club Latino17Modern Bossa18Classic Beguine19Calypso20Andean21Reggae 122Reggae 223Limbo24BambaBank: Jazz1Bigger Band2Serenade Band3Jazz Club4BeBop5Medium Big Band6Fast Big Band7Classic Swing8Acoustic Jazz		
29Cool Bossa30Fast Bossa31Bachata32MamboBank: Lat. Dance1Reggaeton 12Reggaeton 23Modern Salsa4Latin Dance5Lambada6Meneaito7Macarena8Bomba Dance9Gipsy Dance10Hot Merengue11Disco Samba12Mambo Party13Modern Bachata14Disco Cha Cha15Bayon16Club Latino17Modern Bossa18Classic Beguine19Calypso20Andean21Reggae 122Reggae 123Limbo24BambaBank: Jazz1Bigger Band2Serenade Band3Jazz Club4BeBop5Medium Big Band6Fast Big Band7Classic Swing8Acoustic Jazz		
30Fast Bossa31Bachata32MamboBank: Lat. Dance1Reggaeton 12Reggaeton 23Modern Salsa4Latin Dance5Lambada6Meneaito7Macarena8Bomba Dance9Gipsy Dance10Hot Merengue11Disco Samba12Mambo Party13Modern Bachata14Disco Cha Cha15Bayon16Club Latino17Modern Bossa18Classic Beguine19Calypso20Andean21Reggae 122Reggae 123Limbo24BambaBank: Jazz1Bigger Band2Serenade Band3Jazz Club4BeBop5Medium Big Band6Fast Big Band7Classic Swing8Acoustic Jazz		
31Bachata32MamboBank: Lat. Dance1Reggaeton 12Reggaeton 23Modern Salsa4Latin Dance5Lambada6Meneaito7Macarena8Bomba Dance9Gipsy Dance10Hot Merengue11Disco Samba12Mambo Party13Modern Bachata14Disco Cha Cha15Bayon16Club Latino17Modern Bossa18Classic Beguine19Calypso20Andean21Reggae 122Reggae 223Limbo24BambaBank: Jazz Club4BeBop5Medium Big Band6Fast Big Band7Classic Swing8Acoustic Jazz		
32       Mambo         Bank: Lat. Dance         1       Reggaeton 1         2       Reggaeton 2         3       Modern Salsa         4       Latin Dance         5       Lambada         6       Meneaito         7       Macarena         8       Bomba Dance         9       Gipsy Dance         10       Hot Merengue         11       Disco Samba         12       Mambo Party         13       Modern Bachata         14       Disco Cha Cha         15       Bayon         16       Club Latino         17       Modern Bossa         18       Classic Beguine         19       Calypso         20       Andean         21       Reggae 1         22       Reggae 2         23       Limbo         24       Bamba         Bank: Jazz       I         1       Bigger Band         2       Serenade Band         3       Jazz Club         4       BeBop         5       Medium Big Band         6       Fast Big Band <td></td> <td></td>		
Bank: Lat. Dance1Reggaeton 12Reggaeton 23Modern Salsa4Latin Dance5Lambada6Meneaito7Macarena8Bomba Dance9Gipsy Dance10Hot Merengue11Disco Samba12Mambo Party13Modern Bachata14Disco Cha Cha15Bayon16Club Latino17Modern Bossa18Classic Beguine19Calypso20Andean21Reggae 122Reggae 123Limbo24BambaBank: Jazz1Bigger Band2Serenade Band3Jazz Club4BeBop5Medium Big Band6Fast Big Band7Classic Swing8Acoustic Jazz		
1Reggaeton 12Reggaeton 23Modern Salsa4Latin Dance5Lambada6Meneaito7Macarena8Bomba Dance9Gipsy Dance10Hot Merengue11Disco Samba12Mambo Party13Modern Bachata14Disco Cha Cha15Bayon16Club Latino17Modern Bossa18Classic Beguine19Calypso20Andean21Reggae 122Reggae 223Limbo24BambaBank: Jazz1Bigger Band2Serenade Band3Jazz Club4BeBop5Medium Big Band6Fast Big Band7Classic Swing8Acoustic Jazz	32	Mambo
2Reggaeton 23Modern Salsa4Latin Dance5Lambada6Meneaito7Macarena8Bomba Dance9Gipsy Dance10Hot Merengue11Disco Samba12Mambo Party13Modern Bachata14Disco Cha Cha15Bayon16Club Latino17Modern Bossa18Classic Beguine19Calypso20Andean21Reggae 122Reggae 223Limbo24BambaBank: Jazz1Bigger Band2Serenade Band3Jazz Club4BeBop5Medium Big Band6Fast Big Band7Classic Swing8Acoustic Jazz	Bank:	Lat. Dance
3Modern Salsa4Latin Dance5Lambada6Meneaito7Macarena8Bomba Dance9Gipsy Dance10Hot Merengue11Disco Samba12Mambo Party13Modern Bachata14Disco Cha Cha15Bayon16Club Latino17Modern Bossa18Classic Beguine19Calypso20Andean21Reggae 122Reggae 223Limbo24BambaBank: Jazz1Bigger Band2Serenade Band3Jazz Club4BeBop5Medium Big Band6Fast Big Band7Classic Swing8Acoustic Jazz	1	Reggaeton 1
4Latin Dance5Lambada6Meneaito7Macarena8Bomba Dance9Gipsy Dance10Hot Merengue11Disco Samba12Mambo Party13Modern Bachata14Disco Cha Cha15Bayon16Club Latino17Modern Bossa18Classic Beguine19Calypso20Andean21Reggae 122Reggae 223Limbo24BambaBank: Jazz1Bigger Band2Serenade Band3Jazz Club4BeBop5Medium Big Band6Fast Big Band7Classic Swing8Acoustic Jazz	2	Reggaeton 2
5Lambada5Lambada6Meneaito7Macarena8Bomba Dance9Gipsy Dance10Hot Merengue11Disco Samba12Mambo Party13Modern Bachata14Disco Cha Cha15Bayon16Club Latino17Modern Bossa18Classic Beguine19Calypso20Andean21Reggae 122Reggae 223Limbo24BambaBank: Jazz1Bigger Band2Serenade Band3Jazz Club4BeBop5Medium Big Band6Fast Big Band7Classic Swing8Acoustic Jazz	3	Modern Salsa
6Meneaito7Macarena8Bomba Dance9Gipsy Dance10Hot Merengue11Disco Samba12Mambo Party13Modern Bachata14Disco Cha Cha15Bayon16Club Latino17Modern Bossa18Classic Beguine19Calypso20Andean21Reggae 122Reggae 223Limbo24BambaBank: Jazz1Bigger Band2Serenade Band3Jazz Club4BeBop5Medium Big Band6Fast Big Band7Classic Swing8Acoustic Jazz	4	Latin Dance
7Macarena8Bomba Dance9Gipsy Dance10Hot Merengue11Disco Samba12Mambo Party13Modern Bachata14Disco Cha Cha15Bayon16Club Latino17Modern Bossa18Classic Beguine19Calypso20Andean21Reggae 122Reggae 223Limbo24BambaBank: Jazz1Bigger Band2Serenade Band3Jazz Club4BeBop5Medium Big Band6Fast Big Band7Classic Swing8Acoustic Jazz	5	Lambada
8Bomba Dance9Gipsy Dance10Hot Merengue11Disco Samba12Mambo Party13Modern Bachata14Disco Cha Cha15Bayon16Club Latino17Modern Bossa18Classic Beguine19Calypso20Andean21Reggae 122Reggae 223Limbo24BambaBank: Jazz1Bigger Band2Serenade Band3Jazz Club4BeBop5Medium Big Band6Fast Big Band7Classic Swing8Acoustic Jazz	6	Meneaito
9Gipsy Dance10Hot Merengue11Disco Samba12Mambo Party13Modern Bachata14Disco Cha Cha15Bayon16Club Latino17Modern Bossa18Classic Beguine19Calypso20Andean21Reggae 122Reggae 223Limbo24BambaBank: Jazz1Bigger Band2Serenade Band3Jazz Club4BeBop5Medium Big Band6Fast Big Band7Classic Swing8Acoustic Jazz	7	Macarena
10Hot Merengue11Disco Samba12Mambo Party13Modern Bachata14Disco Cha Cha15Bayon16Club Latino17Modern Bossa18Classic Beguine19Calypso20Andean21Reggae 122Reggae 223Limbo24BambaBank: Jazz1Bigger Band2Serenade Band3Jazz Club4BeBop5Medium Big Band6Fast Big Band7Classic Swing8Acoustic Jazz	8	Bomba Dance
11Disco Samba12Mambo Party13Modern Bachata14Disco Cha Cha15Bayon16Club Latino17Modern Bossa18Classic Beguine19Calypso20Andean21Reggae 122Reggae 223Limbo24BambaBank: Jazz1Bigger Band2Serenade Band3Jazz Club4BeBop5Medium Big Band6Fast Big Band7Classic Swing8Acoustic Jazz	9	Gipsy Dance
12Mambo Party13Modern Bachata14Disco Cha Cha15Bayon16Club Latino17Modern Bossa18Classic Beguine19Calypso20Andean21Reggae 122Reggae 223Limbo24BambaBank: Jazz1Bigger Band2Serenade Band3Jazz Club4BeBop5Medium Big Band6Fast Big Band7Classic Swing8Acoustic Jazz	10	Hot Merengue
13Modern Bachata14Disco Cha Cha15Bayon16Club Latino17Modern Bossa18Classic Beguine19Calypso20Andean21Reggae 122Reggae 223Limbo24BambaBank: Jazz1Bigger Band2Serenade Band3Jazz Club4BeBop5Medium Big Band6Fast Big Band7Classic Swing8Acoustic Jazz	11	Disco Samba
14Disco Cha Cha15Bayon16Club Latino17Modern Bossa18Classic Beguine19Calypso20Andean21Reggae 122Reggae 223Limbo24BambaBank: Jazz1Bigger Band2Serenade Band3Jazz Club4BeBop5Medium Big Band6Fast Big Band7Classic Swing8Acoustic Jazz	12	Mambo Party
15Bayon16Club Latino17Modern Bossa18Classic Beguine19Calypso20Andean21Reggae 122Reggae 223Limbo24BambaBank: Jazz1Bigger Band2Serenade Band3Jazz Club4BeBop5Medium Big Band6Fast Big Band7Classic Swing8Acoustic Jazz	13	Modern Bachata
16Club Latino17Modern Bossa18Classic Beguine19Calypso20Andean21Reggae 122Reggae 223Limbo24BambaBank: Jazz1Bigger Band2Serenade Band3Jazz Club4BeBop5Medium Big Band6Fast Big Band7Classic Swing8Acoustic Jazz	14	Disco Cha Cha
17Modern Bossa18Classic Beguine19Calypso20Andean21Reggae 122Reggae 223Limbo24BambaBank: Jazz1Bigger Band2Serenade Band3Jazz Club4BeBop5Medium Big Band6Fast Big Band7Classic Swing8Acoustic Jazz	15	Bayon
18Classic Beguine19Calypso20Andean21Reggae 122Reggae 223Limbo24BambaBank: Jazz1Bigger Band2Serenade Band3Jazz Club4BeBop5Medium Big Band6Fast Big Band7Classic Swing8Acoustic Jazz	16	Club Latino
19Calypso20Andean21Reggae 122Reggae 223Limbo24BambaBank: Jazz1Bigger Band2Serenade Band3Jazz Club4BeBop5Medium Big Band6Fast Big Band7Classic Swing8Acoustic Jazz	17	Modern Bossa
20       Andean         21       Reggae 1         22       Reggae 2         23       Limbo         24       Bamba         Bank: Jazz         1       Bigger Band         2       Serenade Band         3       Jazz Club         4       BeBop         5       Medium Big Band         6       Fast Big Band         7       Classic Swing         8       Acoustic Jazz	18	Classic Beguine
21Reggae 122Reggae 223Limbo24BambaBank: Jazz1Bigger Band2Serenade Band3Jazz Club4BeBop5Medium Big Band6Fast Big Band7Classic Swing8Acoustic Jazz	19	Calypso
22       Reggae 2         23       Limbo         24       Bamba         Bank: Jazz         1       Bigger Band         2       Serenade Band         3       Jazz Club         4       BeBop         5       Medium Big Band         6       Fast Big Band         7       Classic Swing         8       Acoustic Jazz	20	Andean
23Limbo24BambaBank: Jazz1Bigger Band2Serenade Band3Jazz Club4BeBop5Medium Big Band6Fast Big Band7Classic Swing8Acoustic Jazz	21	Reggae 1
24     Bamba       Bank: Jazz       1     Bigger Band       2     Serenade Band       3     Jazz Club       4     BeBop       5     Medium Big Band       6     Fast Big Band       7     Classic Swing       8     Acoustic Jazz	22	Reggae 2
Bank: Jazz         1       Bigger Band         2       Serenade Band         3       Jazz Club         4       BeBop         5       Medium Big Band         6       Fast Big Band         7       Classic Swing         8       Acoustic Jazz	23	Limbo
1Bigger Band2Serenade Band3Jazz Club4BeBop5Medium Big Band6Fast Big Band7Classic Swing8Acoustic Jazz	24	Bamba
2       Serenade Band         3       Jazz Club         4       BeBop         5       Medium Big Band         6       Fast Big Band         7       Classic Swing         8       Acoustic Jazz	Bank:	Jazz
3     Jazz Club       4     BeBop       5     Medium Big Band       6     Fast Big Band       7     Classic Swing       8     Acoustic Jazz	1	Bigger Band
<ul> <li>4 BeBop</li> <li>5 Medium Big Band</li> <li>6 Fast Big Band</li> <li>7 Classic Swing</li> <li>8 Acoustic Jazz</li> </ul>	2	Serenade Band
5       Medium Big Band         6       Fast Big Band         7       Classic Swing         8       Acoustic Jazz	3	Jazz Club
<ul> <li>6 Fast Big Band</li> <li>7 Classic Swing</li> <li>8 Acoustic Jazz</li> </ul>	4	ВеВор
7 Classic Swing 8 Acoustic Jazz	5	Medium Big Band
8 Acoustic Jazz	6	Fast Big Band
	7	Classic Swing
9 Slow Swing Brush	8	Acoustic Jazz
	9	Slow Swing Brush

#	Name
10	Swing Ballad 1
11	Swing Ballad 2
12	Swing Ballad 3
13	Orchestral Swing
14	Jazz Brush
15	Medium JazzWaltz
16	Slow Jazz Waltz
17	Jazzy Blues
18	Organ Swing
19	Organ Blues
20	Swing Quintet
21	Medium Swing
22	Vocal Swing
23	Moon Swing
24	Soft Jazz
25	Django
26	5/4 Swing
27	Jazz Quartet
28	Stride
29	Dixieland
30	Charleston
31	Vocal Jazz
Bank:	Movie & Show
1	Screen EpicMarch
2	Burt's Bounce
3	Orchestral Movie
4	Broadway
5	Show Time
6	Ritz Swing
7	Hollywood 1
8	Hollywood 2
9	Tap Dance
10	Movie Ballad
11	Movie Swing
12	Safari Swing
13	Western Movie
14	Mystery Man
15	Cartoon Time
16	Horror Movie
17	Love Movie
18	Artie's Theme
19	Christmas Waltz
20	Chrismas Swing
21	Theatre Swing
22	Theatre March
23	Love Ballad
24	Army Band
	Funk & Soul
1	Funk R&B
2	Kool Funk
3	Easy Funk
4	Elektrik Funk

#	Name
5	Classic Funk
6	Soul Ballad
7	Talkin' Jazz
8	Funky Sisters
9	Rhythm & Blues
10	Blues
11	Soul
12	Gospel
13	Gospel Swing
14	Gospel Shuffle
15	Modern Gospel 1
16	Modern Gospel 2
17	Al Swing
18	Groove
19	Groove Funk
20	Jazz Funk
21	Motown Shuffle 1
22	Motown Shuffle 2
23	Cool Vocal
24	70's Beat Groove
25	Al Funk
26	Urban Funk
Bank:	World
1	Spanish Dance
2	4/4 Flamenco
3	³ 4 Flamenco
4	Casatchock
5	Greek Rumba
6	Xasapiko
7	Sirtaki
8	Zouk
9	Hawaiian
10	Mexican Waltz
11	Norteno
12	Kebradita
13	Bolero Ranchero
14	Mariachi Polka
15	Mariachi Valz
16	Mariachi Cumbia
17	Alpen Schlager
18	Classic Schlager
19	Modern Schlager
20	Vienna Waltz
21	Tarantella
22	Rumba Napoletana
23	Raspa
24	Mad Ska
25	Celtic Dream
26	Celtic Waltz
27	Celtic Ballad
28	Scottish Reel
29	Banda
30	OrchestralBolero

#	Name
31	Minuetto
32	Baroque
33	Orleans
34	Cajun
35	Zydeco
36	Hora
Bank:	Contemporary
1	Funky R&B
2	AM : PM
3	Contemporary Bld
4	Island View
5	Fast Smooth Jazz
6	Slow Smooth Jazz
7	Slow & Jazzy
8	Take Beat
9	Swing HipHop
10	Slow Mood
11	Hip Hindi Hop
12	Soft HipHop
13	New Age
14	Kyoto Lounge
15	Jazzy Funk
16	Slow Funk
17	Elektro Pop
18	Modern Latin
19	Folk Beat
20	Wave Jazz
21	Little Shuffle
22	Rap
23	Pop Rock Hit
24	Dance Hit

#### Sounds

The following table lists all Pa3XLe Factory Sounds as they appear in the banks accessed by pressing the SOUND SELECT buttons on the control panel.

Legend: The table also includes MIDI data used to remotely select the Sounds. CC00: Control Change 0, or Bank Select MSB. CC32: Control Change 32, or Bank Select LSB. PC: Program Change. Bank: Sound Select button.

Sound Name	CC00	CC32	РС
Factory/Piano			
Grand Piano RX	121	10	0
Concert Grand RX	121	13	0
Live Piano RX	121	6	1
Bright Piano RX	121	5	1
Classic Piano	121	4	0
Jazz Piano	121	5	0
Rock Piano	121	8	0
Grand Piano Live	121	12	0
G.Piano Stack 1	121	8	2
G.Piano Stack 2	121	9	2
Honky-Tonk RX	121	2	3
Ragtime Piano	121	3	3
Grand&MovingPad	121	9	0
E. Grand Phaser	121	10	2
Piano & Strings	121	7	0
Piano & Pad	121	4	1
Harpsichord RX	121	6	6
Clav RX	121	5	7
Synth Clav RX	121	6	7
Clav Wah RX	121	2	7
Piano Layers	121	6	2
Grand & FM Stack	121	7	2
Piano & Vibes	121	6	0
Grand RX DEMO	121	11	0
Factory/E. Piano			
Tine EP Phaser	121	27	4
Tine EP Dyno	121	28	4
Tine EP Amp/Phas	121	29	4
Wet Tine EP	121	31	4
Dist. Tine EP	121	30	4
Bell Tine EP	121	32	4
Suit Case88 EP1	121	33	4
Suit Case88 EP2	121	34	4
Wurly Logic	121	36	4
Wurly Amp	121	38	4
Wurly Clean 1	121	39	4
Wurly Clean 2	121	41	4
Reed EP Clean	121	37	4
Wurly AmpChorus		40	4
Natural Wurly	121	44	4
Wurly RX Noise	121	42	4

Sound Name	СС00	CC32	PC
VPM E. Piano	121	17	5
Digi E. Piano	121	14	5
Classic Tines	121	9	5
DW8000 EP	121	11	5
Natural EP	121	43	4
E.Piano RX Noise	121	35	4
EP+Damper 1 DNC	121	25	4
EP+Damper 2 DNC	121	26	4
Tine E.Piano RX	121	18	4
Club E. Piano	121	11	4
Suit E.Piano 1	121	20	4
Suit E.Piano 2	121	21	4
Classic Wurly 1	121	17	4
Classic Wurly 2	121	12	4
Tremolo Wurly	121	16	4
R&B E. Piano	121	8	4
FM Pad EP	121	15	5
White Pad EP	121	13	5
Thin E. Piano	121	9	4
Tine E. Piano	121	19	4
Dyno Tine EP 1	121	10	4
Dyno Tine EP 2	121	22	4
Studio EP	121	7	4
Pro Dyno EP	121	5	4
Pro Stage EP	121	6	4
-			
Bell E. Piano 1	121	23	4
Bell E. Piano 2	121	24	4
Road Piano	121	11	2
Factory/Mallet & Bell	l.	1	
Vibraphone 1	121	2	11
Marimba	121	7	12
Marimba Key Off	121	2	12
Xylophone	121	1	13
Glockenspiel	121	2	9
Celesta	121	1	8
Music Box	121	2	10
Balaphon	121	6	12
Kalimba 1	121	2	108
Kalimba 2	121	1	108
Sistro	121	1	9
Orgel	121	1	10
Warm Steel	121	1	114
Vs Bell Boy	121	2	98
Tubular Bell	121	4	14
Bells	121	3	14
Santur	121	1	15
Mallet Clock	121	5	12
Factory/Accordion	I	1	
Jazz Harm. DNC	121	6	22
Sweet Harm. DNC	121	7	22
Harmonica 1 DNC	121	5	22
Harmonica 2 DNC	121	9	22

Sound Name	CC00	CC32	PC
Harmonica 3 DNC	121	10	22
Melodica DNC	121	8	22
Classic Musette	121	29	21
Cassotto 16'	121	12	21
Cassotto	121	9	21
Master Accordion	121	23	21
Sweet Musette	121	11	21
French Musette	121	18	21
2 Voices Musette	121	16	21
3 Voices Musette	121	17	21
Accordion16,8,4'		3	23
Cassotto Or.Tune	121	13	21
Acc.Clarinet OT	121	19	21
Fisa Master	121	8	21
Harmonica AT 1	121	3	22
Harmonica AT 2	121	4	22
Harmonica	121	2	22
Acc. Piccolo OT	121	21	21
Accordion 16,8'	121	2	23
Acc.16,8,4' Plus	121	8	23
Fisa 16,8'	121	6	21
Accordion 16,4'	121	7	23
Fisa 16,4'	121	7	21
Musette 1	121	3	21
Musette 2	121	4	21
Tango Accordion	121	10	23
Fisa Tango!	121	1	23
Accordion	121	24	21
Acc.16,8' & Bass	121	4	23
Acc. & Acc. Bass	121	9	23
Accordion Bass	121	5	23
Steirisch.Akk.1	121	25	21
Steirisch.Akk.2	121	26	21
Steirisch.Akk.3	121	27	21
Steirisch.Akk.4	121	28	21
Acc.Voice Change	121	6	23
Factory/Organ			
DRAWBARS	121	127	16
Jimmy Organ	121	13	18
Classic Perc.Org	121	12	17
Organ Low+1'V.	121	33	16
Perc. Organ 1	121	10	17
Perc. Organ 2V.	121	9	17
Perc. Organ 3V.	121	11	17
Organ 16+51/3 V.	121	36	16
BX3 Rock 1 V.	121	10	16
BX3 Rock 2 V.	121	1	18
BX3 Rock 3 V.	121	5	18
BX3 Rock 4 V.	121	12	18
BX3 Full V.	121	6	16
BX3 Jazz V.	121	20	16
BX3 Jazz Pc. V.	121	9	18
BX3 Gospel V.	121	21	16

Sound Name	СС00	CC32	РС
Jimmy Organ V.	121	10	18
Gospel Organ V.	121	13	16
Drawbars Slow V.	121	19	16
Drawbars Fast V.	121	18	16
Drawbars Organ	121	14	16
Jazz Organ	121	8	16
Organ Hi V.	121	17	16
Organ LowPc V.	121	4	17
Organ Low 1 V.	121	4	16
Organ Low 2 V.	121	15	16
Organ Mid V.	121	16	16
Organ HiMix1 V.	121	34	16
Organ HiMix2 V.	121	35	16
Big Theatre Org.	121	30	16
Theatre Organ 1	121	22	16
Theatre Organ 2	121	23	16
Pipe Tutti 1	121	6	19
Pipe Tutti 2	121	8	19
Pipe Tutti 3	121	9	19
Pipe Tutti 4	121	10	19
Church Pipes	121	4	19
Full Pipes	121	5	19
Pipe Mixture	121	3	19
Pipe Flute 1	121	4	20
Pipe Flute 2	121	5	20
Flauto Pipes	121	3	20
Small Pipe	121	2	20
Positive Organ	121	7	19
Factory/Guitar			
Concert Gtr DNC	121	20	24
Concert Gtr Pro	121	21	24
ClassicSteel DNC	121	36	25
Classic12Str Pro	121	37	25
Lead Guitar DNC	121	4	29
E.Gtr Ch/Dly DNC	121	35	27
Dist. Gtr 1 DNC	121	13	30
Dist. Gtr 2 DNC	121	14	30
RealNylon Gtr ST	121	16	24
Real Nylon Gtr	121	17	24
Classic12Str DNC	121	38	25
Classic 12Str RX	121	39	25
Stra. Gtr 1 DNC	121	32	27
Stra. Gtr 2 DNC	121	33	27
Crunch Gtr DNC	121	3	29
Chorus Gtr DNC	121	34	27
RealSteel Gtr ST	121	28	25
RealFolk Gtr ST1	121	29	25
RealFolk Gtr ST2	121	30	25
Steel Gtr RX	121	35	25
Jazz Gtr 1 DNC	121	7	26
Jazz Gtr 2 DNC	121	8	26
	101	-	
Soft Jazz Guitar	121	5	26

Sound Name	CC00	CC32	РС
Single Coil Pro	121	14	27
Nylon Guitar DNC	121	18	24
Natural Nylon	121	19	24
RealFolk Gtr DNC	121	34	25
Real 12 Strings	121	33	25
Nylon Gtr Pro1	121	8	24
Nylon Gtr Pro2	121	11	24
Nylon Slide Pro	121	14	24
Steel Guitar Pro	121	19	25
12 Strings Pro	121	17	25
Steel 12 Strings	121	5	25
Real Steel Gtr	121	31	25
Real Folk Gtr	121	32	25
Real El. Gtr ST1	121	28	27
Real El. Gtr ST2	121	29	27
Real El. Guitar1	121	30	27
Real El. Guitar2	121	31	27
JazzGtr SlidePro	121	6	26
Club Jazz Gtr 1	121	2	26
Clean Jazz 1	121	22	27
Clean Jazz 2	121	23	27
Pop Steel Gtr 1	121	23	25
Pop Steel Gtr 2	121	21	25
5th Mute Gtr	121	22	23
Stereo Dist.Gtr	121	8	30
Solid Guitar	121	21	27
Steel Slide Pro1	121	13	25
Steel Slide Pro2	121	14	25
Clean Guitar 1	121	20	27
Funk Stein RX1	121	12	28
Clean Funk RX1	121	10	28
Dist. Guitar RX1	121	9	30
Dist. Guitar RX2	121	10	30
Vintage S. 1	121	19	27
Clean Mute Gtr	121	6	28
Ac.Guitar KeyOff	121	5	24
Steel Guitar 1	121	4	25
Steel Guitar 2	121	20	25
Clean Gtr Pro 1	121	13	27
Clean Gtr Pro 2	121	15	27
Dist. Clean Gtr	121	11	30
Chorus Gtr Pro	121	18	27
Pedal Steel	121	4	26
'54 E. Guitar	121	24	27
Single Coil	121	6	27
Stra. Vel. Pro	121	16	27
New Stra.Guitar	121	7	27
Soft Overdrive	121	2	29
Chorus Guitar	121	3	27
Vintage S. 2	121	4	27
Processed E.Gtr	121	5	27
L&R E.Guitar 1	121	9	27
R&R Guitar	121	4	28

Sound Name	СС00	CC32	РС
Power Chords	121	4	30
Mute Monster	121	5	30
Disto Mute	121	9	28
Steel Gtr DNC	121	44	25
Nylon Gtr RX1	121	12	24
Nylon Gtr RX2	121	13	24
Steel Guitar RX1	121	15	25
Steel Guitar RX2	121	16	25
12 Strings RX	121	18	25
Concert 12Str RX	121	22	24
Pop SteelGtr RX1	121	24	25
Pop SteelGtr RX2	121	25	25
Vox Wah Chick RX	121	3	120
Funky Wah RX	121	12	27
Power Chords RX	121	15	30
Clean Funk RX2	121	36	27
Clean Funk RX3	121	11	28
Funk Stein RX2	121	13	28
Clean Guitar RX1	121	14	28
Clean Guitar RX2	121	15	28
Clean Guitar RX3	121	16	28
Clean Guitar RX4	121	17	28
Clean Guitar RX5	121	18	28
Clean Guitar RX6	121	20	28
Factory/Strings & Vocal			
	101	0	40
Violin DNC	121	9	40
Real Violin DNC	121	7	40
Violin Expr. DNC	121	5	40
Conc.Violin DNC	121	6	40
SopranoVox1 DNC	121	4	53
SopranoVox2 DNC	121	5	53
Real Strings 1	121	9	49
Real Strings 2	121	10	49
Movie Str.1 DNC	121	7	49
Movie Str.2 DNC	121	8	49
Strings&Orch. V.	121	24	48
Classic Harp	121	2	46
Violin Expr. 1	121	8	40
Violin Expr. 2	121	2	40
SopranoChoir DNC	121	6	53
Scat Voices DNC	121	20	52
Cycle Scat 1	121	21	52
Cycle Scat 2	121	22	52
Little Boy Voice	121	23	52
Movie Strings 1	121	5	49
Movie Strings 2	121	6	49
Concert Strings	121	11	49
Strings Ens. RX	121	22	48
Concert Str.RX	121	23	48
Full Strings	121	2	49
Ensemble & Solo	121	11	48
Tremolo Strings	121	1	44
Class.Contrabass	121	1	43

Sound Name	CC00	CC32	PC
Cello	121	1	42
Viola Expr.	121	1	41
Violin & Viola	121	2	41
Violin Expr. 3	121	4	40
Slow Violin	121	3	40
Strings Quartet	121	9	48
Chamber Strings	121	12	48
Orchestra Tutti1	121	14	48
Orchestra Tutti2	121	19	48
Orch. & Oboe 1	121	16	48
Orch. & Oboe 2	121	17	48
Orchestra&Flute	121	20	48
Strings & Horns	121	15	48
Strings & Glock.	121	18	48
Pizz. Ensemble	121	1	45
Pizz. Section	121	2	45
Octave Strings	121	8	48
Spiccato Strings	121	4	49
StrappatoStrings	121	12	49
Symphonic Bows	121	10	48
Analog Strings 1	121	5	50
Synth Strings 1	121	6	50
Scat V.& Bass1	121	17	52
Scat V.& Bass2	121	18	52
Wuuh Choir	121	8	52
Oh-Ah Voices	121	9	52
Femal&Male Scat	121	14	52
Take Voices 1	121	4	52
Ooh Slow Voice	121	3	52
Scat Voices RX	121	19	52
Male Scat	121	16	52
Femal Scat	121	15	52
Grand Choir	121	11	52
Ooh Choir	121	6	52
Ooh Voices	121	2	52
Choir Light	121	12	52
Synth Voices	121	6	54
Full Vox Pad	121	9	91
Vocalesque	121	2	54
Fresh Breath	121	7	91
Vocalscape	121	3	54
Heaven	121	3	91
Airways	121	3	53
Factory/Trumpet & Trbn.			
JazzTrumpet1 DNC	121	24	56
JazzTrumpet2 DNC	121	27	56
JazzTrumpet3 DNC	121	28	56
Trumpet Expr.DNC	121	26	56
Jazz Trb. 1 DNC	121	15	57
Jazz Trb. 2 DNC	121	14	57
Jazz Trb. 3 DNC	121	18	57
Soft Trb. DNC	121	16	57
JazzCornet 1 DNC	121	25	56

JazzCornet 2 DNC Trb. Expr. DNC Trombone DNC Trumpet Expr.1 Trumpet Expr.2 Cornet Expr. Wah Trumpet Mute Trumpet Sweet FlugelHorn Trombone Expr. 1 Trombone Expr. 2 Trumpet Pro 1 Trumpet Pro 2	121 121 121 121 121 121 121 121 121 121	29 17 13 15 4 21 2 5 5 12	56 57 57 56 56 56 59
Trb. Expr. DNCTrombone DNCTrumpet Expr.1Trumpet Expr.2Cornet Expr.Wah TrumpetMute TrumpetSweet FlugelHornTrombone Expr. 1Trombone Expr. 2Trumpet Pro 1	121 121 121 121 121 121 121 121 121 121	17 13 15 4 21 2 5	57 57 56 56 56 56
Trombone DNCTrumpet Expr.1Trumpet Expr.2Cornet Expr.Wah TrumpetSweet FlugelHornTrombone Expr. 1Trombone Expr. 2Trumpet Pro 1	121 121 121 121 121 121 121 121	15 4 21 2 5	56 56 56
Trumpet Expr.2Cornet Expr.Wah TrumpetMute TrumpetSweet FlugelHornTrombone Expr. 1Trombone Expr. 2Trumpet Pro 1	121 121 121 121 121 121 121	4 21 2 5	56 56
Trumpet Expr.2Cornet Expr.Wah TrumpetMute TrumpetSweet FlugelHornTrombone Expr. 1Trombone Expr. 2Trumpet Pro 1	121 121 121 121 121	21 2 5	56
Cornet Expr.Wah TrumpetMute TrumpetSweet FlugelHornTrombone Expr. 1Trombone Expr. 2Trumpet Pro 1	121 121 121 121 121	2 5	
Wah TrumpetMute TrumpetSweet FlugelHornTrombone Expr. 1Trombone Expr. 2Trumpet Pro 1	121 121 121 121	2 5	
Mute Trumpet       Sweet FlugelHorn       Trombone Expr. 1       Trombone Expr. 2       Trumpet Pro 1	121 121	-	
Sweet FlugelHorn     Image: Sweet FlugelHorn       Trombone Expr. 1     Image: Sweet FlugelHorn       Trombone Expr. 2     Image: Sweet FlugelHorn       Trumpet Pro 1     Image: Sweet FlugelHorn	121	12	59
Trombone Expr. 1 Trombone Expr. 2 Trumpet Pro 1			56
Trombone Expr. 2 Trumpet Pro 1	121	6	57
Trumpet Pro 1		7	57
	121	10	56
•	121	11	56
Trumpet Pro 3	121	16	56
Trumpet Overb.	121	2	56
Cornet Pro 1	121	22	56
Cornet Pro 2	121	23	56
Trombone Vel. 1	121	8	57
Trombone Vel. 2	121	9	57
Trombone Vel. 3	121	10	57
Flugel Horn Pro	121	13	56
Concert Trumpet	121	19	56
Concert Trp. Pro	121	20	56
Dual Trumpets	121	6	56
Hard Trombone	121	3	57
Trombone Pro Vel	121	11	57
Alp Trumpet	121	17	56
Trumpet	121	14	56
Trumpet Shake Y+	121	18	56
Trumpet Pitch	121	5	56
Alp Tuba	121	6	58
Tuba Gold	121	2	58
Oberkr. Tuba	121	1	58
Factory/Brass			
Big Band Brass 1	121	32	61
Big Band Brass 2	121	4	61
Tight Brass 1	121	27	61
Tight Brass 2	121	29	61
Tight Brass 3	121	2	61
Tight Brass 4	121	12	61
Trpt. & Horns	121	5	60
Trpts &Trombs	121	34	61
Soft Horns 1	121	6	60
Soft Horns 2	121	7	60
Soft Horns 3	121	8	60
Tight Brass Pro	121	28	61
Trumpet Ens2 Y+	121	36	61
Trumpet Ens.	121	9	61
Trombone Ens.	121	10	61
Trombones	121	11	61
Dyna Brass 1	121	14	61
Trpts & Brass	121	7	61
Fat Brass	121	13	61

Sound Name	CC00	CC32	РС
Brass of Power	121	30	61
Glenn & Friends	121	3	61
Glenn & Boys	121	6	61
Sax & Brass	121	5	61
Brass & Sax	121	16	61
Mute Ensemble 1	121	3	59
Mute Ensemble 2	121	4	59
Sforzato Brass	121	23	61
Movie Brass	121	20	61
Flute Muted	121	6	73
French Section	121	2	60
Horns & Ensemble	121	4	60
Classic Horns	121	3	60
Synth Brass 1	121	5	62
Electrik Brass	121	4	62
Brass Section	121	31	61
Brass Fall	121	26	61
Brass Impact	121	4	55
Brass Hit	121	25	61
MorphAttackBrass	121	37	61
Factory/Sax	l		
Jazz Sax 1 DNC	121	13	65
Jazz Sax 2 DNC	121	14	65
Jazz Sax 3 DNC	121	16	65
Tenor Sax 1 DNC	121	12	66
Tenor Sax 2 DNC	121	13	66
Tenor Sax 3 DNC	121	14	66
Tenor Sax 4 DNC	121	15	66
Jazz Tenor RX	121	9	66
Alto Sax 1 DNC	121	12	65
Alto Sax 2 DNC	121	17	65
SoftLatinSax DNC	121	18	65
Alto Sax Expr.	121	9	65
Alto Sax RX	121	10	65
Tenor Sax Noise1	121	1	66
Tenor Sax Noise2	121	6	66
Soprano Sax DNC	121	5	64
Sweet Soprano 1	121	3	64
Sweet Soprano 2	121	4	64
Sweet Soprano 3	121	1	64
Soprano Pro	121	2	64
JazzBaritone DNC	121	5	67
Baritone Sax Pro	121	3	67
Baritone Sax	121	4	67
Sweet Alto Sax 1	121	5	65
Sweet Alto Sax 2	121	6	65
Soft Alto Sax	121	7	65
Alto Sax Pro	121	8	65
Tenor Sax Expr.2	121	8	66
Tenor Sax Expr.1	121	7	66
Jazz Tenor	121	10	66
		1	(7
Baritone Growl	121	1	67

Sound Name	СС00	CC32	РС
Cool Sax Ens.	121	11	65
Sax Ensemble	121	2	65
Reed of Power	121	11	66
Breath & Key RX	121	2	121
Factory/Woodwind			
RealClarinet DNC	121	14	71
JazzClarinet DNC	121	15	71
SoloClarinet DNC	121	16	71
Clarinet 1 DNC	121	13	71
Clarinet 2 DNC	121	19	71
Clarinet 3 DNC	121	20	71
Jazz Flute 1 DNC	121	13	73
Jazz Flute 2 DNC	121	14	73
Classic Oboe	121	2	68
Orch. Flute DNC	121	12	73
Flute DNC	121	11	73
Whistle DNC	121	5	78
Shakuhachi Vel.	121	3	77
Panflute 1 DNC	121	2	75
Panflute 2 DNC	121	3	75
Blown Bottle	121	1	76
Bassoon	121	1	70
Piccolo	121	3	72
Ocarina	121	1	79
Flute Switch	121	2	73
Jazz Flute RX	121	10	73
Jazz Flute Expr.	121	1	73
Flute Dyn. 5th	121	3	73
Flute Frullato	121	4	73
Jazz Clarinet	121	1	71
Clarinet Pro 1	121	8	71
Clarinet Pro 2	121	9	71
Whistle	121	1	78
Whistle RX1	121	3	78
Whistle RX2	121	4	78
Whistle Breathe	121	2	78
Clar & Sax Ens.1	121	17	71
Clar & Sax Ens.2	121	18	71
Double Reed	121	1	68
Orchestra Flute	121	5	73
Woodwinds	121	6	71
Small Orchestra	121	1	72
Clarinet Ens.	121	5	71
Section Winds 1	121	3	71
Section Winds 2	121	4	71
Reeds & Saxes	121	10	71
Factory/Synth Pad			
Far Memories	121	14	91
Atmoschoir Pad	121	15	91
Step Sequencer	121	7	96
Space Trailer	121	1	103
Warm Pad	121	15	89

Sound Name	CC00	CC32	РС
Choir-Sequence	121	13	91
Techno Stab DNC	121	3	93
Wave-Sequence	121	4	96
Aerosonic	121	5	96
My Sequencer	121	6	96
Jurassic Pad	121	3	88
Pisco Pad	121	2	99
Tension Scene	121	8	97
Dronas Pad	121	4	93
Bengione	121	1	99
Chiff Touch Pad	121	1	83
Dreaming Coil	121	3	99
Organ Stab DNC	121	4	101
Deep Noise	121	4	127
The Pad	121	4	89
Dark Pad	121	6	89
OB Pad	121	12	89
Analog Pad 1	121	8	89
Analog Pad 2	121	9	89
Dark Anna	121	13	89
Symphonic Ens.	121	14	89
Future Pad	121	5	91
Air Clouds	121	1	97
Tinklin Pad	121	3	97
Pods In Pad	121	4	97
Vintage Sweep	121	7	95
Money Pad	121	5	89
Tsunami Wave	121	6	91
Ravelian Pad	121	8	91
Meditate	121	2	95
Super Sweep	121	4	90
Wave Sweep	121	5	90
Cross Sweep	121	6	90
Digi Ice Pad	121	2	101
Cinema Pad	121	5	95
Virtual Traveler	121	1	88
Motion Ocean	121	1	96
Moon Cycles	121	5	102
Bell Pad	121	6	98
Big Panner	121	4	63
Rave	121	6	97
Moving Bell	121	5	98
Analog Pad 3	121	10	89
Big Sweep Stab	121	12	90
Fresh Air 1	121	2	91
Fresh Air 2	121	11	91
Pop Synth Pad 1	121	4	91
Pop Synth Pad 2	121	12	91
80's Pop Synth	121	2	93
Wave Cycle	121	3	96
Warm Buzz	121	17	89
Next Analog	121	16	89
Double Sweep	121	9	95
Double Sweep	121	7	22

Sound Name	СС00	CC32	РС
S&H Pad DNC	121	10	96
Factory/Synth Lead	1		
Bass Phat Saw	121	12	87
Old Portamento	121	3	80
Power Saw	121	5	81
Octo Lead	121	6	81
Electro Lead	121	2	87
Rich Lead	121	3	87
Thin Analog Lead	121	4	87
Dance Lead	121	4	80
Wave Lead	121	5	80
Sine Wave	121	6	80
Express. Lead	121	5	87
HipHop Lead	121	6	87
Analog Lead	121	7	80
Phat Saw Lead	121	8	81
Glide Lead	121	9	81
Gliding Square	121	9	80
Power Synth	121	3	89
Sine Switch	121	10	80
Cosmic	121	1	93
Fire Wave	121	10	81
Digital PolySix	121	7	90
A Leadload	121	11	87
Noisy Stabb	121	8	90
Mega Synth	121	9	90
Dark Element	121	3	95
Metallic Rez	121	4	84
Synth Pianoid	121	12	81
Arp Angeles	121	2	88
Big & Raw	121	8	87
Caribbean	121	2	96
OB Lead	121	10	87
Port Whine	121	12	80
2VCO Planet Lead	121	13	80
VCF Modulation	121	3	101
Cycle Seq. 1	121	8	96
Cycle Seq. 2	121	9	96
Next Dance DNC	121	13	87
Next Morph Y+	121	15	87
Bros Buzz Y+	121	14	87
Trance Filter	121	16	87
Vintage Monster	121	17	87
Monster & Dist.	121	18	87
Summit Pulse	121	13	81
Labysynth DNC	121	8	84
Parallel Trance	121	9	84
Deep Modul. DNC	121	10	84
Reverse Pulse	121	14	81
Justified	121	11	84
Factory/Ethnic			
Mandolin DNC	121	40	25

Sound Name	СС00	CC32	РС
Mandolin	121	43	25
Mandolin Orch.1	121	41	25
Mandolin Orch.2	121	42	25
Real Cavaquinho	121	27	24
Cavaquinho 1	121	23	24
Cavaquinho 2	121	24	24
Real Ukulele	121	25	24
Zither	121	9	104
Sitar	121	8	104
Fiddle	121	1	110
Mandolin Trem.	121	11	25
Mandolin Ens. 1	121	26	25
Mandolin Ens. 2	121	27	25
Banjo Key Off	121	1	105
Banjo RX	121	4	105
Sitar Tambou	121	2	104
Kanoun 1	121	5	107
Kanoun 2	121	2	107
Kanoun Trem. 1	121	6	107
Kanoun Trem. 2	121	3	107
Kanoun Mix	121	4	107
Oud 1	121	5	105
Oud 2	121	2	105
Bouzouki	121	5	104
Nay	121	2	72
Clarinet G	121	2	71
Klarnet 1	121	11	71
Klarnet 2	121	12	71
Old Shakuhachi	121	1	77
Kawala	121	1	75
Hichiriki	121	2	111
HighlandBagPipes	121	3	109
Uillean BagPipes	121	2	109
Indian Frets	121	4	104
Zurna 1	121	3	111
Zurna 2	121	1	111
Gamelan	121	1	112
Garbage Mall	121	3	112
Jaw Harp	121	3	105
Ac. Baglama 1	121	7	107
Ac. Baglama 2	121	8	107
Ac. Baglama Grp.	121	9	107
Factory/Bass			
Real Ac.Bass RX	121	12	32
Real Ac.Bass	121	13	32
Vintage P.Round	121	17	33
Vintage P. Flat	121	18	33
5 Strings BassRX	121	19	33
Dark E.Bass 1	121	20	33
Dark E.Bass 2	121	24	33
Finger Jazz B.RX	121	21	33
Dark E.Bass DNC	121	22	33
Vintage P. Bass	121	22	33
vintage 1. buss	121	22	

Sound Name	CC00	CC32	РС
Vintage P. Pick	121	12	34
Picked Jazz Bass	121	13	34
MM Fretless B.RX	121	8	35
Woofer Pusher 1	121	9	35
Finger Bass DNC	121	16	33
Dark Bs&Slp DNC	121	7	36
Acous. Bass Pro1	121	3	32
Acous. Bass Pro2	121	4	32
Jazz Bass	121	9	32
Acoustic Bass	121	8	32
Finger Bass 1	121	6	33
Finger Bass 2	121	7	33
Finger Bass 3	121	10	33
Finger Bass 4	121	15	33
Finger Slap	121	12	33
The Other Slap	121	5	37
Thumb Bass	121	1	37
Pick Bass 1	121	7	34
Pick Bass 2	121	8	34
Super Bass 1	121	1	36
Super Bass 2	121	2	36
Sweet Fretless	121	3	35
Finger E.Bass 1	121	2	33
Finger E.Bass 2	121	3	33
Finger E.Bass 3	121	4	33
Fretless Bass 1	121	1	35
Fretless Bass 2	121	2	35
Bass & Ride 1	121	6	32
Bass & Ride 2	121	2	32
Bright Finger B.	121	9	33
Picked E.Bass 1	121	1	34
Picked E.Bass 2	121	2	34
Picked E.Bass 3	121	11	34
Chorus Fing.Bass	121	8	33
Bass Mute	121	5	34
Synth Bass 1	121	18	38
Synth Bass 2	121	15	39
Bass&Gtr Double	121	6	34
FingerB.& Guitar	121	14	33
Bass & Guitar	121	4	34
30303 Bass	121	5	38
Stein Bass	121	3	34
Jungle Rez	121	5	39
Syn Bass Res	121	8	38
Digi Bass 1	121	9	38
Digi Bass 3	121	11	38
Jungle Bass	121	13	38
Hybrid Bass	121	15	38
Digi Bass 2	121	10	38
Organ Pedal 1	121	10	32
Organ Pedal 2	121	11	32
Acous. Bass RX	121	7	32
Finger Bass RX	121	13	32
ו וווקבו שמשש הא	121	15	22

Jour NameCoreFireSlapFing Bass RX1211034SlapPick Bass RX12112133SlapPick Bass RX12112133SupPick Bass RX12112133StapPick Bass RX12112133Factory/Drum & SFX1213119Legex/Piano121312Grand Piano1211212121Jano Pad 11211212121Jano Pad 11211212121Jono Pad 11211212121Jono Pad 11211212121Jono Pad 11211212121Jono Pad 1121121212Jono Pad 1121121212Jono Pad 1121131212Jono Pad 1121131412Jono Pad 1121131212Jono Pad 1121131212Jono Pad 1121131412Jono Pad 1121131412Jono Pad 112113 </th <th>Sound Name</th> <th>CC00</th> <th>CC32</th> <th>РС</th>	Sound Name	CC00	CC32	РС		
Picked Bass RX1211034SlapPick Bass RX121121336Willy FM Bass121121310Factory/Drum & SFXIncipit Noises12112123119Legacy/Piano121231213121Gran Piano1212312133121Piano Pad 1121231213312190's Piano121341213412190's Piano1213412134121100's Piano121121341213490's Piano1213412134121100's Piano1211213412134121100's Piano1211211314121131131101's Piano121121131412113114101's Piano121121131412113114101's Piano121121131412113114101's Piano121121131141131141131141101's Piano121121121131141131141131141131141131141131141131141131141131141131141131141131131131131131131131131						
SlapPick Bass RX121536FunkSlap Bass RX1211213336Willy FM Bass12112113119Factory/Drum & SFX1213.1119Legacy/Piano1213.11212Grand Plano12112.13.111Piano Pad 112112.112.1121190's Plano12112.112.112.112.190's Plano12112.112.112.112.112.190's Plano12112.112.112.112.112.190's Plano12112.112.112.112.112.190's Plano12112.112.112.112.112.190's Plano12112.112.112.112.112.190's Plano12112.112.112.112.112.190's Plano12112.112.112.112.112.191's Plano12112.112.112.112.112.191's Plano12112.112.112.112.112.191's Plano12112.112.112.112.112.112.191's Plano12112.112.112.112.112.112.112.112.112.112.112.112.112.112.112.112.112.112.112.112.112.112.112.112.1 </td <td></td> <td></td> <td></td> <td></td>						
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Phantom Tine         121         100         5           Soft Wurly         121         133         4           Hard Wurly         121         114         4           Velo Wurly         121         121         14         4           Sweeping EP         121         121         12         5           Classic Dig, EP         121         121         5         5           Legacy/Mallet & Bell         121         3         11           Monkey Skuls         121         3         12           Digi Bell         121         3         12           Monkey Skuls         121         3         98           Krystal Bell         121         3         98           Kardeon         121         1         22         21           Akordeon         121         1         22         21           Acc. Clarinet NT         121         12         21         21           Acc. Clarinet NT         121         15         21           Musette Clar.         121         15         21           Musette Clar.         121         10         21              Arabic Accordion         121 <td></td> <td></td> <td></td> <td></td>						
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Hard Wurly         121         14         4           Velo Wurly         121         15         4           Sweeping EP         121         12         5           Classic Dig. EP         121         7         5           Syn Piano X         121         5         5           Legacy/Mallet & Bell         121         3         11           Monkey Skuls         121         3         12           Digi Bell         121         3         12           Krystal Bell         121         3         98           Krystal Bell         121         1         22           Akordeon         121         1         22           Akordeon         121         14         21           Acc. Clarinet NT         121         14         21           Acc. Piccolo NT         121         14         21           Detune Accordion         121         15         21           Musette Clar.         121         10         21           Arabic Accordion         121         10         21           Gassic Click         121         4         18           Perc.Short Deca         121						
Velo Wurly         121         15         4           Sweeping EP         121         12         5           Classic Dig. EP         121         7         5           Syn Piano X         121         5         5           Legacy/Mallet & Bell         121         3         11           Wonkey Skuls         121         3         12           Digi Bell         121         3         98           Krystal Bell         121         3         98           Legacy/Accordion         121         1         22           Akordeon         121         1         22           Akordeon         121         14         21           Acc. Clarinet NT         121         20         21           Acc. Piccolo NT         121         22         21           Musette Clar.         121         10         21           Musette Clar.         121         5         21           Arabic Accordion         121         10         21           Elegacy/Organ         121         4         18           Perc.Short Deca         121         11         18	· ·					
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Vibraphone 2         121         3         11           Monkey Skuls         121         3         12           Digi Bell         121         4         98           Krystal Bell         121         3         98           Legacy/Accordion         121         1         22           Sweet Harmonica         121         1         22           Akordeon         121         14         21           Cassotto NorTune         121         14         21           Acc. Clarinet NT         121         20         21           Acc. Piccolo NT         121         22         21           Detune Accordion         121         15         21           Musette Clar.         121         5         21           Arabic Accordion         121         10         21           Legacy/Organ         121         10         21           Classic Click         121         4         18           Perc.Short Deca         121         11         18           Rock Organ 2         121         11         18			_	-		
Monkey Skuls         121         3         12           Digi Bell         121         4         98           Krystal Bell         121         3         98           Legacy/Accordion         121         1         22           Akordeon         121         1         22           Akordeon         121         1         22           Cassotto NorTune         121         14         21           Acc. Clarinet NT         121         20         21           Acc. Piccolo NT         121         22         21           Detune Accordion         121         15         21           Musette Clar.         121         15         21           Arabic Accordion         121         10         21           Legacy/Organ         121         4         18           Perc.Short Deca         121         8         18           Rock Organ 2         121         11         18		121	3	11		
Digi Bell         121         4         98           Krystal Bell         121         3         98           Legacy/Accordion         121         1         2           Sweet Harmonica         121         1         22           Akordeon         121         1         22           Cassotto NorTune         121         14         21           Acc. Clarinet NT         121         20         21           Acc. Piccolo NT         121         22         21           Detune Accordion         121         15         21           Musette Clar.         121         15         21           Arabic Accordion         121         10         21           Legacy/Organ         121         10         21           Classic Click         121         4         18           Perc.Short Deca         121         12         18           Rock Organ 2         121         11         18						
Krystal Bell121398Legacy/AccordionSweet Harmonica121122Akordeon121221Cassotto NorTune1211421Acc. Clarinet NT1212021Acc. Piccolo NT1212221Detune Accordion1211521Musette Clar.1211521Arabic Accordion1211021Legacy/Organ121418Perc.Short Deca1211118	· ·					
Legacy/Accordion           Sweet Harmonica         121         1         22           Akordeon         121         2         21           Cassotto NorTune         121         14         21           Acc. Clarinet NT         121         20         21           Acc. Piccolo NT         121         20         21           Detune Accordion         121         15         21           Musette Clar.         121         5         21           Arabic Accordion         121         10         21           Legacy/Organ         121         4         18           Perc.Short Deca         121         8         18           Rock Organ 2         121         11         18						
Sweet Harmonica         121         1         22           Akordeon         121         2         21           Cassotto NorTune         121         14         21           Acc. Clarinet NT         121         20         21           Acc. Piccolo NT         121         20         21           Detune Accordion         121         15         21           Musette Clar.         121         5         21           Arabic Accordion         121         10         21           Legacy/Organ         121         4         18           Perc.Short Deca         121         121         18           Rock Organ 2         121         11         18						
Akordeon         121         2         21           Cassotto NorTune         121         14         21           Acc. Clarinet NT         121         20         21           Acc. Piccolo NT         121         22         21           Detune Accordion         121         15         21           Musette Clar.         121         5         21           Arabic Accordion         121         10         21           Issic Click         121         10         21           Perc.Short Deca         121         4         18           Rock Organ 2         121         11         18		121	1	22		
Cassotto NorTune         121         14         21           Acc. Clarinet NT         121         20         21           Acc. Piccolo NT         121         22         21           Detune Accordion         121         15         21           Musette Clar.         121         5         21           Arabic Accordion         121         10         21           Legacy/Organ         121         4         18           Perc.Short Deca         121         12         8         18           Rock Organ 2         121         11         18         18						
Acc. Clarinet NT       121       20       21         Acc. Piccolo NT       121       22       21         Detune Accordion       121       15       21         Musette Clar.       121       5       21         Arabic Accordion       121       10       21         Legacy/Organ       121       4       18         Perc.Short Deca       121       11       18         Rock Organ 2       121       11       18						
Acc. Piccolo NT       121       22       21         Detune Accordion       121       15       21         Musette Clar.       121       5       21         Arabic Accordion       121       10       21         Icassic Click       121       4       18         Perc.Short Deca       121       11       18         Rock Organ 2       121       11       18						
Detune Accordion         121         15         21           Musette Clar.         121         5         21           Arabic Accordion         121         10         21           Legacy/Organ         121         4         18           Perc.Short Deca         121         8         18           Rock Organ 2         121         11         18						
Musette Clar.121521Arabic Accordion1211021Legacy/Organ121418Classic Click121418Perc.Short Deca121818Rock Organ 21211118						
Arabic Accordion1211021Legacy/OrganClassic Click121418Perc.Short Deca121818Rock Organ 21211118						
Classic Click         121         4         18           Perc.Short Deca         121         8         18           Rock Organ 2         121         11         18						
Perc.Short Deca         121         8         18           Rock Organ 2         121         11         18	Legacy/Organ					
Rock Organ 2         121         11         18	Classic Click	121	4	18		
Rock Organ 2         121         11         18	Perc.Short Deca	121	8	18		
		121	11	18		
	-	121	3	18		

Sound Name	CC00	CC32	РС
Killer B	121	2	18
BX3 Short Decay	121	7	17
Super BX Perc.	121	6	18
Gospel Organ	121	9	16
Old Wheels	121	3	17
Dark Organ 1	121	7	16
Dark Organ 2	121	5	16
Rotary Organ	121	8	17
VOX Legend	121	11	16
M1 Organ	121	5	17
Dirty JazzOrgan	121	7	18
Arabian Organ	121	12	16
Theatre Organ 3	121	24	16
Theatre Organ 4	121	25	16
Tibia	121	26	16
Tibia 16+8+4'	121	27	16
Tibia & Vox	121	28	16
Post Horn Trem.	121	29	16
Tibia & Kinura	121	31	16
Tibia Vox Glock	121	32	16
Techno Org.Bass	121	6	17
Legacy/Guitar			
Nylon Bossa	121	4	24
Nylon Vel. Harm.	121	10	24
Spanish Guitar	121	6	24
Nylon Guitar	121	15	24
Brazilian Guitar	121	9	24
Steel Folk Gtr	121	9	25
Guitar Strings	121	7	24
Finger Key Off	121	7	25
Club Jazz Gtr 2	121	3	26
Pop Steel Slide	121	23	25
Finger Tips	121	8	25
Country Nu	121	11	27
Reso Guitar	121	12	25
Tel. Midddle	121	26	27
Clean Funk	121	8	28
Wet Dist. Guitar	121	6	30
Hackbrett	121	6	25
Tel. Bridge	121	27	27
Guitarish	121	8	27
Stra. Gtr Slide	121	17	27
Stra. Chime	121	5	28
Clean Guitar 2	121	25	27
L&R E.Guitar 2	121	10	27
Rhythm E.Guitar	121	7	28
Muted Guitar	121	19	28
E.Gtr Harmonics	121	2	31
Solo Dist.Guitar	121	7	30
Dist. Steel Gtr	121	12	30
Joystick Gtr Y-	121	3	30

Sound Name	СС00	CC32	PC
Legacy/Strings & Vocal			
Strings Ens. 1	121	21	48
Strings Ens. 2	121	3	49
i3 Strings	121	5	48
Stereo Strings	121	3	48
Master Pad	121	2	89
N Strings	121	6	48
Arco Strings	121	7	48
Legato Strings	121	4	48
Double Strings	121	3	45
Arabic Strings	121	13	48
Sweeper Strings	121	1	49
Analog Strings 2	121	2	50
Synth Strings 2	121	1	51
Take Voices 2	121	5	52
Aah Choir	121	7	52
Slow Choir	121	10	52
Cyber Choir	121	2	85
Odissey	121	4	50
Strings Choir	121	13	52
Analog Velve	121	3	50
Ether Voices	121	1	85
Dream Voice	121	5	54
Classic Vox	121	4	54
Doolally	121	2	53
Legacy/Trumpet & Trbn.			
Mono Trumpet	121	3	56
Warm Flugel	121	8	56
Pitch Trombone	121	5	57
Soft Trombone	121	4	57
Trombone	121	12	57
BeBop Cornet	121	9	56
Flugel Horn	121	7	56
Dynabone	121	3	58
Ob.Tuba&E.Bass 1	121	4	58
Ob.Tuba&E.Bass 2	121	5	58
Legacy/Brass	·	•	
Attack Brass	121	8	61
Big BandShake Y+	121	33	61
Trumpet Ens1 Y+	121	35	61
Dyna Brass 2	121	22	61
Double Brass	121	24	61
Power Brass	121	21	61
Brass Expr.	121	15	61
Film Brass	121	17	61
Brass Slow	121	18	61
Fanfare	121	19	61
Synth Brass 2	121	5	63
Brass Pad	121	3	63
Netherland Hit	121	8	55
Legacy/Sax	I	•	
Folk Sax	121	5	66

Sound Name	CC00	CC32	РС
Breathy Baritone	121	2	67
Alto Breath	121	1	65
Tenor Breath	121	3	66
Breathy Alto Sax	121	3	65
Alto Sax Growl	121	4	65
Soft Tenor	121	2	66
Tenor Growl	121	4	66
Legacy/Woodwind			
Folk Clarinet	121	7	71
Flute	121	9	73
Wooden Flute	121	7	73
Bambu Flute	121	8	73
English Horn	121	1	69
Recorder 1	121	1	74
Recorder 2	121	2	74
Legacy/Synth Pad			
Sky Watcher	121	2	90
Vintage Pad	121	- 11	89
You Decide	121	8	95
Korgmatose	121	13	90
Reoccuring Astra	121	6	95
Astral Dream	121	1	95
Reso Down	121	2	97
Crimson 5ths	121	1	86
Freedom Pad	121	7	89
Noble Pad	121	5	97
Mellow Pad	121	4	95
Lonely Spin	121	1	100
Synth Ghostly	121	2	100
Farluce	121	11	90
Bell Choir	121	7	98
Dance ReMix	121	10	91
Elastick Pad	121	7	97
Legacy/Synth Lead			
Motion Raver	121	1	101
Synchro City	121	2	84
Wild Arp	121	6	55
Seq Lead	121	7	81
Old & Analog	121	8	80
Flip Blip	121	7	55
Reso Sweep	121	1	90
Synth Sweeper	121	3	90
Sync Kron	121	3	84
Tecno Phonic	121	10	90
Band Passed	121	3	102
Cat Lead	121	9	87
Pan Reso	121	4	102
Square Rez	121	11	80
Rezbo	121	11	81
Auto Pilot 1	121	14	38
Square Bass	121	7	87
Brian Sync	121	5	84

Sound Name	CC00	CC32	PC
Arp Twins	121	6	84
LoFi Ethnic	121	7	84
Legacy/Ethnic			
Shakuhachi	121	2	77
Mandolin Key Off	121	10	25
War Pipes	121	1	109
Sitar Sitar	121	7	104
Hit in India	121	5	55
Tambra	121	6	104
Indian Stars	121	3	104
Bali Gamelan	121	2	112
Ukulele Gtr	121	26	24
Legacy/Bass			
Ac. Bass Buzz	121	1	32
Slap Bass 1	121	6	36
Slap Bass 2	121	6	37
Slap Bass 3	121	7	37
Dyna Slap Bass	121	3	37
Chorus Slap Bass	121	4	37
DarkWoody A.Bass	121	5	32
More Mid! Bass	121	11	33
Woofer Pusher 2	121	6	35
Dark R&B Bass1	121	4	35
Dyna Bass	121	2	37
Ticktacing Bass	121	9	34
Fretless Bass 3	121	7	35
Stick Bass	121	5	33
Dark R&B Bass2	121	5	35
Auto Pilot 2	121	13	39
Bass4 Da Phunk	121	14	39
Dr. Octave	121	16	38
Monofilter Bass	121	11	39
Synth Bass 80ish	121	9	39
Reso Bass	121	12	39
Autofilter Bass	121	10	39
Drive Bass	121	17	38
Nasty Bass	121	6	39
Euro Bass	121	4	39
30303 Square	121	6	38
Bass Square	121	7	38
Phat Bass	121	7	39
Blind As A Bat	121	12	38
Poinker Bass	121	8	39
Legacy/Drum & SFX			
Log Drum	121	4	12
Reverse Tom	121	2	117
Reverse Snare	121	3	118
Reverse Cymbal	121	2	119
		2 1	119 119
Reverse Cymbal	121		
Reverse Cymbal Dragon Gong	121 121	1	119

Sound Name	CC00	CC32	PC
Woodblock	121	3	115
Footstep Walk	121	7	126
GM/Piano			
AcousticPiano GM	121	0	0
Ac. Piano Wide	121	1	0
Ac. Piano Dark	121	2	0
Bright Piano GM	121	0	1
Bright PianoWide	121	1	1
E.Grand Piano GM	121	0	2
E. Grand Wide	121	1	2
Honky-Tonk GM	121	0	3
Honky Wide	121	1	3
E. Piano 1 GM	121	0	4
Detuned EP 1	121	1	4
EP 1 Veloc. Mix	121	2	4
60's E. Piano	121	3	4
E. Piano 2 GM	121	0	5
Detuned EP 2		1	
	121		5
EP 2 Veloc. Mix	121	2	5
EP Legend	121	3	5
EP Phase	121	4	5
Harpsichord GM	121	0	6
Harpsi OctaveMix	121	1	6
Harpsi Wide	121	2	6
Harpsi Key Off	121	3	6
Clav GM	121	0	7
Pulse Clav	121	1	7
GM/Chrom. Perc.			
Celesta GM	121	0	8
Glockenspiel GM	121	0	9
Music Box GM	121	0	10
Vibraphone GM	121	0	11
Vibraphone Wide	121	1	11
Marimba GM	121	0	12
Marimba Wide	121	1	12
Xylophone GM	121	0	13
Tubular Bell GM	121	0	14
Church Bell	121	1	14
Carillon	121	2	14
Dulcimer GM	121	0	15
GM/Organ			
Drawbar Org GM	121	0	16
Det. Drawbar Org	121	1	16
lt. 60's Organ	121	2	16
Drawbar Org. 2	121	3	16
Perc.Organ GM	121	0	17
Det. Perc. Organ	121	1	17
Perc. Organ 2	121	2	17
Rock Organ GM	121	0	18
Church Organ GM	121	0	19
Church Oct. Mix	121	1	19

Sound Name	CC00	CC32	РС
Reed Organ GM	121	0	20
Puff Organ	121	1	20
Accordion GM	121	0	21
Accordion 2	121	1	21
Harmonica GM	121	0	22
Tango Accord.GM	121	0	23
GM/Guitar			
Nylon Guitar GM	121	0	24
Ukulele	121	1	24
Nylon Key Off	121	2	24
Nylon Guitar 2	121	3	24
Steel Guitar GM	121	0	25
12 Strings Gtr	121	1	25
Mandolin	121	2	25
Steel Gtr & Body	121	3	25
Jazz Guitar GM	121	0	26
Pedal Steel Gtr	121	1	26
Clean Guitar GM	121	0	27
Det.Clean El.Gtr	121	1	27
Mid Tone Gtr	121	2	27
Muted Guitar GM	121	0	28
Funky Cut El.Gtr	121	1	28
Mute Vel. El.Gtr	121	2	28
Jazz Man	121	3	28
Overdrive Gtr GM	121	0	29
Guitar Pinch	121	1	29
Distortion GtrGM	121	0	30
Feedback DistGtr	121	1	30
Dist. Rhythm Gtr	121	2	30
Gtr Harmonic GM	121	0	31
Guitar Feedback	121	1	31
GM/Bass			
Acoustic Bass GM	121	0	32
Finger Bass GM	121	0	33
Finger Slap Bass	121	1	33
Picked E.Bass GM	121	0	34
Fretless Bass GM	121	0	35
Slap Bass 1 GM	121	0	36
Slap Bass 2 GM	121	0	37
Synth Bass 1 GM	121	0	38
Synth Bass Warm	121	1	38
Synth Bass Reso	121	2	38
Clavi Bass	121	3	38
Hammer	121	4	38
Synth Bass 2 GM	121	0	39
SynthBass Attack	121	1	39
SynthBass Rubber	121	2	39
Attack Pulse	121	3	39
GM/Strings			
Violin GM	121	0	40
	121	1	40
Slow Att. Violin	121		10

Sound Name	СС00	CC32	РС
Cello GM	121	0	42
Contrabass GM	121	0	43
Tremolo Str. GM	121	0	44
Pizzicato Str.GM	121	0	45
Harp GM	121	0	46
Yang Chin	121	1	46
Timpani GM	121	0	47
GM/Ensemble			
Strings Ens.1 GM	121	0	48
Strings & Brass	121	1	48
60's Strings	121	2	48
Strings Ens.2 GM	121	0	49
Synth Strings1GM	121	0	50
Synth Strings 3	121	1	50
Synth Strings2GM	121	0	51
Choir Aahs GM	121	0	52
Choir Aahs 2	121	1	52
Voice Oohs GM	121	0	53
Humming	121	1	53
Synth Voice GM	121	0	54
Analog Voice	121	1	54
Orchestra Hit GM	121	0	55
Bass Hit Plus	121	1	55
6th Hit	121	2	55
Euro Hit	121	3	55
GM/Brass			
Trumpet GM	121	0	56
Dark Trumpet	121	1	56
Trombone GM	121	0	57
Trombone 2	121	1	57
Bright Trombone	121	2	57
Tuba GM	121	0	58
Muted Trumpet GM	121	0	59
Muted Trumpet 2	121	1	59
French Horn GM	121	0	60
FrenchHorn Warm	121	1	60
Brass Section GM	121	0	61
Brass Section 2	121	1	61
Synth Brass 1 GM	121	0	62
Synth Brass 3	121	1	62
Analog Brass 1	121	2	62
Jump Brass	121	3	62
Synth Brass 2 GM	121	0	63
Synth Brass 4	121	1	63
Analog Brass 2	121	2	63
GM/Reed			
Soprano Sax GM	121	0	64
Alto Sax GM	121	0	65
Tenor Sax GM	121	0	66
Baritone Sax GM	121	0	67
Oboe GM	121	0	68
English Horn GM	121	0	69

Sound Name	CC00	CC32	PC
Bassoon GM	121	0	70
Clarinet GM	121	0	70
	121	v	71
GM/Pipe	1	1	
Piccolo GM	121	0	72
Flute GM	121	0	73
Recorder GM	121	0	74
Pan Flute GM	121	0	75
Blown Bottle GM	121	0	76
Shakuhachi GM	121	0	77
Whistle GM	121	0	78
Ocarina GM	121	0	79
GM/Syn Lead Syn Pad			
Lead Square GM	121	0	80
Lead Square 2	121	1	80
Lead Sine	121	2	80
Lead Saw GM	121	0	81
Lead Saw 2	121	1	81
Lead Saw & Pulse	121	2	81
Lead Double Saw	121	3	81
Lead Seq. Analog	121	4	81
Calliope GM	121	0	82
Chiff GM	121	0	83
Charang GM	121	0	84
Wire Lead	121	1	84
Voice Lead GM	121	0	85
Fifths Lead GM	121	0	86
Bass & Lead GM	121	0	87
Lead Soft Wrl	121	1	87
New Age Pad GM	121	0	88
Warm Pad GM	121	0	89
Sine Pad	121	1	89
Polysynth GM	121	0	90
Choir Pad GM	121	0	91
Itopia Pad	121	1	91
Bowed Glass GM	121	0	92
Metallic Pad GM	121	0	93
Halo Pad GM	121	0	94
Sweep Pad GM	121	0	95
GM/Synth SFX			
Ice Rain GM	121	0	96
Soundtrack GM	121	0	97
Crystal GM	121	0	98
Synth Mallet	121	1	98
Atmosphere GM	121	0	99
Brightness GM	121	0	100
Goblins GM	121	0	101
Echo Drops GM	121	0	102
Echo Bell	121	1	102
Echo Pan	121	2	102
Star Theme GM	121	0	103
GM/Ethnic			
Sitar GM	121	0	104
L	1	1	l

Sound Name	CC00	CC32	PC
Sitar 2	121	1	104
Banjo GM	121	0	105
Shamisen GM	121	0	106
Koto GM	121	0	107
Taisho Koto	121	1	107
Kalimba GM	121	0	108
Bag Pipes GM	121	0	109
Fiddle GM	121	0	110
Shanai GM	121	0	111
GM/Percus-sive			
Tinkle Bell GM	121	0	112
Agogo GM	121	0	113
Steel Drums GM	121	0	114
Woodblock GM	121	0	115
Castanets	121	1	115
Taiko Drum GM	121	0	116
Concert BassDrum	121	1	116
Melodic Tom GM	121	0	117
Melodic Tom 2	121	1	117
Synth Drum GM	121	0	118
Rhythm Box Tom	121	1	118
Electric Drum	121	2	118
ReverseCymbalGM	121	0	119
GM/SFX			
	121	0	120
Gtr FretNoise GM	121	-	120
Guitar Cut Noise	121 121	1	120 120
Ac. Bass String Breath Noise GM	121	0	120
Flute Key Click	121	1	121
Seashore GM	121	0	121
Rain	121	1	122
Thunder	121	2	122
Wind	121	3	122
Stream	121	4	122
Bubble	121	5	122
Bird Tweet GM	121	0	122
Dog	121	1	123
Horse Gallop	121	2	123
Bird Tweet 2	121	3	123
Telephone GM	121	0	123
Telephone 2	121	1	124
Door Creaking	121	2	124
Door	121	3	124
Scratch	121	4	124
Wind Chime	121	5	124
Helicopter GM	121	0	125
Car Engine	121	1	125
Car Stop	121	2	125
Car Pass	121	3	125
Car Crash	121	4	125
Siren	121	5	125
Train	121	6	125
		-	

Sound Name	СС00	CC32	PC
Jetplane	121	7	125
Starship	121	8	125
Burst Noise	121	9	125
Applause GM	121	0	126
Laughing	121	1	126
Screaming	121	2	126
Punch	121	3	126
Heart Beat	121	4	126
Footsteps	121	5	126
Gun Shot GM	121	0	127
Machine Gun	121	1	127
Laser Gun	121	2	127
Explosion	121	3	127
User 01			
	121	64	0-127
User 02			
	121	65	0-127
User 03			
	121	66	0-127
User 04			
	121	67	0-127

#### **Drum Kits**

The following table lists all Pa3XLe Factory Drum Kits in order of Bank Select-Program Change number.

Legend: The table also includes MIDI data used to remotely select the Drum Kits. CC00: Control Change 0, or Bank Select MSB. CC32: Control Change 32, or Bank Select LSB. PC: Program Change.

Sound Name	СС00	CC32	РС
Factory/Drum & SFX			
Standard Kit Amb	120	0	93
Room Kit Amb	120	0	80
Power Kit 1 Amb	120	0	20
Power Kit 2 Amb	120	0	21
Rock Kit Amb	120	0	22
Vintage Kit Amb	120	0	94
Gate Kit Amb	120	0	23
Cool Kit Amb	120	0	39
Jazz Kit 1 Amb	120	0	36
Jazz Kit 2 Amb	120	0	37
Brush Kit 1 Amb	120	0	45
Brush Kit 2 Amb	120	0	46
Lounge Kit Amb	120	0	38
Studio Kit RX	120	0	95
Real Kit 1 Amb	120	0	81
Real Kit 2 Amb	120	0	82
Pop Kit Amb	120	0	88
Groove Kit RX	120	0	77
Synth Kit 1	120	0	59
Synth Kit 2	120	0	58
Standard Kit RX1	120	0	5
Standard Kit RX2	120	0	1
Standard Kit RX3	120	0	2
Standard Kit RX4	120	0	6
Ambient Kit RX	120	0	3
Pop Std. Kit RX	120	0	4
Electro Kit RX1	120	0	75
Electro Kit RX2	120	0	76
Brush Kit RX1	120	0	42
Brush Kit RX2	120	0	43
Brush Kit RX3	120	0	44
HipHop Kit RX	120	0	72
Jazz Kit RX1	120	0	33
Jazz Kit RX2	120	0	34
Jazz Kit RX3	120	0	35
Techno Kit RX	120	0	73
House Kit RX1	120	0	30
House Kit RX2	120	0	31
Power Kit RX1	120	0	18
Power Kit RX2	120	0	19
Dance Kit RX	120	0	74
Analog Kit	120	0	123

Sound Name	CC00	CC32	РС
Jungle Kit	120	0	10
Electro Kit	120	0	122
Room Kit 1	120	0	120
НірНор Кіt 1	120	0	9
Techno Kit 1	120	0	11
Pop Std. Kit 1	120	0	89
Pop Std. Kit 2	120	0	90
Elektro Kit 1	120	0	96
Elektro Kit 2	120	0	97
Standard PercKit	120	0	69
Arabian Kit 1	120	0	51
Arabian Kit 2	120	0	117
Turkish Kit	120	0	118
Oriental PercKit	120	0	119
Percussion Kit	120	0	64
Latin Perc.Kit 1	120	0	65
Latin Perc.Kit 2	120	0	68
Trinity Perc.Kit	120	0	66
i30 Perc. Kit	120	0	67
SFX Kit 1	120	0	60
SFX Kit 2	120	0	57
Synth Kit 3	120	0	61
Legacy/Drum & SFX			
Standard Kit	120	0	7
Bdrum&Sdrum Kit	120	0	50
Room Kit 2	120	0	12
Power Kit 1	120	0	121
Power Kit 2	120	0	17
НірНор Кіt 2	120	0	13
Techno Kit 2	120	0	14
Techno Kit 3	120	0	15
House Kit 1	120	0	26
House Kit 2	120	0	27
House Kit 3	120	0	28
Brush Kit 1	120	0	125
Brush Kit 2	120	0	41
Orchestra Kit	120	0	49
GM/Drum			
Standard Kit GM	120	0	0
Room Kit GM	120	0	8
Power Kit GM	120	0	16
Electro Kit GM	120	0	24
Analog Kit GM	120	0	25
Jazz Kit GM	120	0	32
Brush Kit GM	120	0	40
Orchestra Kit GM	120	0	48
SFX Kit GM	120	0	56
Standard Kit1 XG	127	0	0
Standard Kit2 XG	127	0	1
	12/	U	

Sound Name	CC00	CC32	PC				
Room Kit XG	127	0	8				
Rock Kit XG	127	0	16				
Electro Kit XG	127	0	24				
Analog Kit XG	127	0	25				
Jazz Kit 1 XG	127	0	32				
Jazz Kit 2 XG	127	0	33				
Brush Kit XG	127	0	40				
Classic Kit XG	127	0	48				
User DK							
	120	64	0-127				

#### **DNC Sounds**

The following table lists all Pa3XLe Factory DNC Sounds as they appear in the Sound Select window.

*Note:* When a Performance contains Sounds making use of Sound Controllers 1 & 2 (SC1, SC2), these controllers must be assigned to the Assignable Switches, the Assignable Footswitch or an EC5 pedal.

Sound Name	Page	ссоо	CC32	PC	Legato (IR)	Legato (OoR)	SC1	SC2	SCY+	scy-	Damper	After Touch
Factory/Electric Piano												
EP+Damper 1 DNC	3	121	25	4							SFX	
EP+Damper 2 DNC	3	121	26	4							Halo	
Factory/Accordion										•		•
Jazz Harm. DNC	1	121	6	22			GU	RD	RU	FD on KR		Bend
Sweet Harm. DNC	1	121	7	22			Bend	Wah	Smth	FD on KR	Breath	Vibrato
Harmonica 1 DNC	1	121	5	22			Bend	Wah	Smth	Wah		Bend
Harmonica 2 DNC	1	121	9	22		>±8st: RU/RD	GU	RD	RU	FD on KR		Bend
Harmonica 3 DNC	1	121	10	22		>±8st: RU/RD	GU	RD	RU	FD on KR		Bend
Melodica DNC	1	121	8	22			GU	RD	RU	FD on KR		Mellow
Factory/Guitar	•						•	•		•		
Concert Gtr DNC	1	121	20	24	< ±5st: Smth		Slide U	Harm		Body NZ		Vibrato
ClassicSteel DNC	1	121	36	25	< ±5st: Smth		Slide U	Harm		Body NZ		Vibrato
Lead Guitar DNC	1	121	4	29	< ±3st: Smth			>C7: alt FX				
E.Gtr Ch/Dly DNC	1	121	35	27	< ±5st: Smth		Slide U	Harm		Mute		Vibrato
Dist. Gtr 1 DNC	1	121	13	30	< ±5st: Smth		Slide U	Harm		Mute		Vibrato
Dist. Gtr 2 DNC	1	121	14	30	< ±5st: Smth		Slide U	Mute	Harm	Feedback	Cut NZ	Vibrato
Classic12Str DNC	2	121	38	25			Slide U	Harm				
Stra. Gtr 1 DNC	2	121	32	27			Mute	Harm	Up Pick			
Stra. Gtr 2 DNC	2	121	33	27			Mute	Harm	Up Pick			
Crunch Gtr DNC	2	121	3	29	< ±5st: Smth		Slide U	Mute	Harm	Feedback		Vibrato
Chorus Gtr DNC	2	121	34	27	< ±5st: Smth		Slide U	Mute	Harm	Feedback		
Jazz Gtr 1 DNC	3	121	7	26	< ±4st: Smth		Slide U	Harm	Bend			
Jazz Gtr 2 DNC	3	121	8	26	< ±4st: Smth		Slide U	Harm	Bend			
E.Gtr Amp DNC	3	121	37	27	< ±5st: Smth		Slide U	Harm		Mute		Vibrato
Nylon Guitar DNC	4	121	18	24	< ±5st: Smth		Slide U	Harm		Body NZ		Vibrato
RealFolk Gtr DNC	4	121	34	25	< ±4st: Smth		Slide U	Harm		Body NZ		Vibrato
Steel Gtr DNC	11	121	44	25	< ±5st: Smth		Slide U	Harm	Mute	Body NZ		Vibrato
Factory/Strings & Vo	ocal						•	•		•		•
Violin DNC	1	121	9	40	< ±9st: Smth	>±9st: Gls U/D	>G4: 8Gls U	8GI D	Balzato	Mord		
Real Violin DNC	1	121	7	40	< ±9st: Smth	>±9st: Gls U/D	>G4: 8Gls U	8GI D	Balzato	Mord		
Violin Expr. DNC	1	121	5	40	< ±9st: Smth	>±9st: Gls U/D	Oct Glis U	Oct Gliss D	Balzato	Mord		
Conc.Violin DNC	1	121	6	40	< ±5st: Smth		Pizzicato	Ens		Vol		
SopranoVox1 DNC	1	121	4	53	< ±6st: Smth	>±6st: Gls U/D	>G4: 4th U	<f5: 5th="" d<="" td=""><td></td><td></td><td></td><td></td></f5:>				
SopranoVox2 DNC	1	121	5	53	< ±11st: Smth	>±11st: Gls U/D			Gliss U			
Movie Str.1 DNC	2	121	7	49			Solo	Pizzicato	Tremolo	Solo		Perc Hit
Movie Str.2 DNC	2	121	8	49			Smth	Pizzicato	Tremolo	Solo		Perc Hit
SopranoChoir DNC	2	121	6	53	< ±6st: Smth		>G4: 8Gl U	<f5: 5th="" d<="" td=""><td></td><td></td><td></td><td></td></f5:>				
Scat Voices DNC	2	121	20	52	< ±5st: Smth		FD	Smth		Mellow		Vibrato
Factory/Trumpet &	Frbn									•		
JazzTrumpet1 DNC	1	121	24	56	< ±6st: Smth		Doit	FD	Shake	FD on KR	Breath	Bright
JazzTrumpet2 DNC	1	121	27	56	< ±4st: Smth	>±4st: Shk/FD	Doit	FD	Shake	FD on KR	Breath	Bright

Sound Name	Page	ссоо	CC32	PC	Legato (IR)	Legato (OoR)	SC1	SC2	SCY+	scy-	Damper	After Touch
JazzTrumpet3 DNC	1	121	28	56	< ±6st: Smth	>±6st: RU/RD	Doit	FD	Shake	FD on KR	Breath	Vol
Trumpet Expr.DNC	1	121	26	56	< ±6st: Smth		Doit	FD	Shake	FD on KR	Breath	Bright
Jazz Trb.1 DNC	1	121	15	57	< ±12st: Smth		Gliss U	Gliss D	Oct Gliss U	FD on KR	Breath	
Jazz Trb.2 DNC	1	121	14	57	< ±12st: Smth		Gliss U	FD	Oct Gliss U	FD on KR	Breath	
Jazz Trb.3 DNC	1	121	18	57	< ±4st: Smth	>±4st: Gliss U/D	Gliss U	Gliss D	Oct Gliss U	FD on KR	Breath	
Soft Trb. DNC	1	121	16	57	< ±5st: Smth		Gliss U	Gliss D	Oct Gliss U	FD on KR		Bright
JazzCornet 1 DNC	2	121	25	56	< ±12st: Smth		Doit	FD	Bend	RD on KR	Breath	
JazzCornet 2 DNC	2	121	29	56	< ±8st: Smth	>±8st: RU/RD	Doit	FD	Bend	RD on KR	Breath	
Trb. Expr. DNC	2	121	17	57	< ±5st: Smth		Gliss U	FD	Oct Gliss U	FD on KR		Bright
Trombone DNC	2	121	13	57	< ±12st: Smth		RU	FD	Bend	Wah	Breath	
Factory/Sax					1			1	1			
Jazz Sax 1 DNC	1	121	13	65	< ±12st: Smth		GU	FD	RU	FD on KR	Breath	Bright
Jazz Sax 2 DNC	1	121	14	65	<±12st: Smth		GU	RD	RU	FD on KR	Breath	Bright
Jazz Sax 3 DNC	1	121	16	65	< ±9st: Smth	>±9st: RU/RD	GU	RD	RU	FD on KR	Breath	Bright
Tenor Sax 1 DNC	1	121	10	66	<±12st: Smth	>±)3t. 10/11D	Soft	Straight	Bend	Mellow	Breath	bright
Tenor Sax 2 DNC	1	121	13	66	< ±9st: Smth	>±9st: RU/RD	GU	RD	RU	FD on KR	Breath	Bright
Tenor Sax 3 DNC	1	121	14	66	< ±9st: Smth	>±9st: RU/RD	GU	RD	RU	FD on KR	Breath	
							GU	RD				Bright
Tenor Sax 4 DNC	1	121	15	66	< ±9st: Smth	>±9st: RU/RD		_	RU	FD on KR	Breath	Bright
Alto Sax 1 DNC	2	121	12	65	< ±12st: Smth		Soft	Growl	Bend	Mellow	Breath	Bright
Alto Sax 2 DNC	2	121	17	65	< ±9st: Smth	>±9st: RU/RD	GU	RD	RU	FD on KR	Breath	Bright
SoftLatinSax DNC	2	121	18	65	< ±9st: Smth	>±9st: RU/RD	GU	RD	RU	FD on KR	Breath	
Soprano Sax DNC	2	121	5	64	< ±9st: Smth	>±9st: RU/RD	GU	RD			Breath	
JazzBaritone DNC	3	121	5	67	< ±9st: Smth	>±9st: RU/RD	GU	Grace Oct		FD on KR	Breath	Bright
Factory/Woodwind		-										
RealClarinet DNC	1	121	14	71	< ±12st: Smth		Long RU	Long FD	Short RU	FD on KR	Breath	<u> </u>
JazzClarinet DNC	1	121	15	71	< ±12st: Smth		Long RU	Long FD	Short RU	FD on KR	Breath	
SoloClarinet DNC	1	121	16	71	< ±5st: Smth		Long RU	Long FD		FD on KR		Bright
Clarinet 1 DNC	1	121	13	71	< ±5st: Smth		Bend	Bend	Smth	Ens	Breath	Bend
Clarinet 2 DNC	1	121	19	71	< ±8st: Smth	>±8st: RU/RD	Long RU	Long FD	Short RU	FD on KR	Breath	
Clarinet 3 DNC	1	121	20	71	< ±8st: Smth	>±8st: RU/RD	Long RU	Long FD	Short RU	FD on KR	Breath	
Jazz Flute 1 DNC	1	121	13	73	< ±5st: Smth		Oct RU	RD	Voice	FD on KR	Breath	
Jazz Flute 2 DNC	1	121	14	73	< ±8st: Smth	>±8st: RU/RD	Oct RU	RD	Frull	FD on KR	Breath	
Orch. Flute DNC	2	121	12	73	< ±5st: Smth		Oct RU	RD	Voice	FD on KR	Breath	
Flute DNC	2	121	11	73	< ±5st: Smth		Voice	Frull	Overtone	Voice	Breath	
Whistle DNC	2	121	5	78			Soft	Vibrato	FD	Breath	Breath	
Panflute 1 DNC	2	121	2	75	< ±12st: Smth		RU	Mord		Mellow		
Panflute 2 DNC	2	121	3	75	< ±12st: Smth		RU	Mord		Mellow		
Factory/Synth Pad					1							
Techno Stab DNC	1	121	3	93			Filter	Straight		Straight		Filter
Organ Stab DNC	3	121	4	101			Filter	Straight		Straight		Filter
S&H Pad DNC	8	121	10	96			Noise	LFO->Ptch	LFO->Flt	Detune		Noise
Factory/Synth Lead	0	121	10	50			Noise			Detune		Noise
Next Dance DNC	5	121	13	87			Noise		Filter	Filter		Filter
Labysynth DNC	6	121	8	84			HP Filter	Noise	LoFi		1	
Deep Modul. DNC	6	121	10	84			HP Filter	Smth	LFO Freq.+	LFO Freq-		
Factory/Ethnic	-	I	I		I			1				<u>.                                    </u>
•	-	101	40	25			Dist 1 1/2	[	[	[		
Mandolin DNC	1	121	40	25			Disable KR					<u> </u>
Factory/Bass		1	1		1			r	r	r		1
Dark E.Bass DNC	2	121	22	33	< ±5st: Smth		Slide FX	Harm		Mute		Vibrato

Sound Name	Page	ссоо	CC32	PC	Legato (IR)	Legato (OoR)	SC1	SC2	SCY+	scy-	Damper	After Touch
Finger Bass DNC	2	121	16	33	< ±5st: Smth		Slap	Harm	Slide FX	Noises		Vibrato
Dark Bs&Slp DNC	2	121	7	36	< ±5st: Smth		Slide FX	Harm		Mute		Vibrato

#### Legend:

IR = In Range; OoR = Out of Range; RU = Riff Up; KR = Key Release; AltAtk = Alternate Attack; Smth = Smoother Attack; RD = Riff Down; FD = Fall Down; GU = Glide Up; Slide U = Slide Up; Gliss U = Glissato Up; Gliss D = Glissato Down; Bd U = Octave Glissato Up; Bd D = Octave Glissato Down; Ens = Ensemble; Bend = Bending; Shk = Shake; Stacc = Staccato; Mord = Mordente; Frull = Frullato (flutter tongue); Body NZ = Body Noise; Cut NZ = Cut Noise; Harm = Harmonics; Bright = Brightness; Det = Detune; Vol = Volume.

#### Multisamples

The following is a list of all Pa3XLe Factory Multisamples.

* **OrigTune:** Original Tune, i.e., samples use the natural tuning of the original instrument, instead of the equal tuning. Beating may occur at the extreme pitch, when the sound is used in conjunction with other sounds.

0	GrandPiano_L	38	E.Piano Dyno f	76	4' 22/3' 2' LF R
1	GrandPiano_R	39	E.Piano Dyno ff	77	4' 22/3' 2' LS L
2	GrandPiano_L OrigTune	40	E.Piano Dyno Soft	78	4' 22/3' 2' LS R
3	GrandPiano_R OrigTune	41	E.Piano Dyno SoftLP	79	11/3' 13/5' 1' LF L
4	Resonance_L	42	E.Piano Stage Hard	80	11/3' 13/5' 1' LF R
5	Resonance_R	43	E.Piano Stage HardLP	81	11/3' 13/5' 1' LS L
6	Resonance_L OrigTune	44	E.Piano Vintage pp	82	11/3' 13/5' 1' LS R
7	Resonance_R OrigTune	45	E.Piano Vintage p	83	16' 8' 51/3' Perc LF L
8	Piano FX Pedal On L	46	E.Piano Vintage mf	84	16' 8' 51/3' Perc LF R
9	Piano FX Pedal On R	47	E.Piano Vintage f	85	16' 8' 51/3' Perc LS L
10	Piano FX Pedal Off L	48	E.Piano Vintage ff	86	16' 8' 51/3' Perc LS R
11	Piano FX Pedal Off R	49	E.Piano Vintage fff	87	Theater Organ 1
12	Piano FX Key Off L	50	E.Piano Vintage Koff	88	Theater Organ 2
13	Piano FX Key Off R	51	E.Piano Wurly Soft	89	50s E.Organ Bright
14	AcousticPiano L	52	E.Piano Wurly Hard	90	50s E.Organ Dark
15	AcousticPiano R	53	E.Piano Pad 1	91	E.Organ CX 3
16	Piano M1	54	E.Piano Pad 1LP	92	E.Organ Perc. O1W
17	E.GrandPiano	55	E.Piano Pad 2	93	E.Organ Fast Click
18	E.Piano FM 1	56	Clavi 1	94	E.Organ Perc. 1
19	E.Piano FM 1LP	57	Clavi 2	95	E.Organ Perc. 2
20	E.Piano FM 2	58	Clavi 3	96	E.Organ Perc. 3
21	E.Piano PO mp	59	Clavi 4	97	E.Organ Perc. 4
22	E.Piano PO mf	60	Clavinet GM	98	Organ 1 M1
23	E.Piano PO f	61	Harpsichord	99	Organ 2 M1
24	E.Piano PO f+	62	Harpsichord Key off	100	Organ 1
25	E.Piano PO ff	63	Gospel Organ Slow L	101	Organ 2
26	E.Piano PO ff+	64	Gospel Organ Slow R	102	Organ 2LP
27	E.Piano PO fff	65	Gospel Organ Fast L	103	Organ 3 Jazz
28	E.Piano PO Kof p	66	Gospel Organ Fast R	104	BX3 & Perc. 3rd
29	E.Piano PO Kof f	67	16' 8' LF L	105	E.Organ Vox
30	E.Piano Rx KON L	68	16' 8' LF R	106	E.Organ Soft
31	E.Piano Rx KON R	69	16' 8' LS L	107	E.Organ Full
32	E.Piano Rx KOF L	70	16' 8' LS R	108	E.Organ Dist
33	E.Piano Rx KOF R	71	16' 8' 51/3 LF L	109	Rotary Organ 1
34	E.Piano Suit Bright mp	72	16' 8' 51/3 LF R	110	Rotary Organ 1LP
35	E.Piano Suit Bright mf	73	16' 8' 51/3 LS L	111	Rotary Organ 2
36	E.Piano Suit Bright f	74	16' 8' 51/3 LS R	112	Super BX3
37	E.Piano Dyno mf	75	4' 22/3' 2' LF L	113	Super BX3LP

114Rotor Noise LF L115Rotor Noise LS L116Rotor Noise LS R117Rotor Noise LS R118H Organ Leakage119H Organ Click Kon121H Organ Click Konf122ON-Click (Organ)123OFF-Click (Organ)124Pipe Flute R125Pipe Flute R126Pipe Flute R127Pipe Full 1 L128Pipe Full 1 R129Pipe Full 2130Pipe Full 2131E.Organ Church132Music Box133Music BoxLP134Kalimba135Kalimba GM136MarimbaLP137Balaphone138Xylophone1LP139Silaiphone1LP140Vibraphone1LP141Oiberstal GM142Jog Crum143Gelesta144Celesta GM145GiockenspielLP146GiockenspielLP147Jog Drum148Tubular Bell149Jog Drum HardLP149Jog Drum HardLP141Steel Drum HardLP142Jibel Falls143Steel Drum HardLP144Falle Falls145Jibel Falls146Jibel Falls147Jibel Falls148Steel Drum HardLP149Jibel Falls140Jibel Falls141Jibel Falls142Jibel Falls		
111Rotor Noise LS R117Rotor Noise LS R118H Organ Leakage119H Organ Click Kon120H Organ Click Konf121ON-Click (Organ)122OFF-Click (Organ)123OFF-Click I Organ124Pipe Flute L125Pipe Flute R126Pipe Flut R127Pipe Flut R128Pipe Full 1 R129Pipe Full 1 R130Pipe Full 2131E.Organ Church132Music BoxLP133Music BoxLP134Kalimba CM135Kalimba CM136MarimbaLP137Jalaphone138Vibraphone1LP149Oibraphone2LP140Clesta CM141Oibraphone2LP142Jibraphone1LP143GlockenspielLP144Clesta GM145Jibraphone1LP146Siel Drum Hard147Jibraphone1LP148Ciel Stat I149Jibraphone1LP141Siel Drum Hard142Siel Drum Hard143Siel Drum Hard144Siel Drum Hard145Finte Falls146Finte Falls147Finte Falls148Finte Falls149Finte Falls140Finte Falls141Finte Falls142Finte Falls143Finte Falls144Finte Falls		
111Rotor Noise LS R118H Organ Leakage119H Organ Click Konf120H Organ Click Konf121H Organ Click Konf122ON-Click (Organ)123OFF-Click (Organ)124Pipe Flute R125Pipe Flute R126Pipe Flut R127Pipe Flut R128Pipe Full 1 R139Pipe Full 1 R130Pipe Full 2131E.Organ Church132Music BoxLP133Music BoxLP134Kalimba GM135Kalimba GM136Japhone137JainbanGM138Vibraphone1LP139Salaphone140Vibraphone2141Clesta GM142GlockenspielLP143GlockenspielLP144Sitel Drum Hard145Jtel Drum Hard146Sitel Drum HardLP147Jtel Drum HardLP148Sitel Drum HardLP149Sitel Drum HardLP140Sitel Drum HardLP141Sitel Drum HardLP142Sitel Drum HardLP143Sitel Drum HardLP144Sitel Drum HardLP145Fute Falls146Sitel Drum HardLP147Sitel Drum HardLP148Sitel Drum HardLP149Sitel Drum HardLP140Sitel Drum HardLP141Sitel Drum HardLP142Sitel Drum HardLP<		
118H Organ Leakage119H Organ Click Kon120H Organ Click Koff121H Organ Click Koff122ON-Click (Organ)123OFF-Click (Organ)124Pipe Flute L125Pipe Flute R126Pipe Flute R127Pipe Positive128Pipe Full 1 L129Pipe Full 1 L130Pipe Full 2131J Organ Church132Music Box133Music BoxLP134Kalimba135Kalimba GM136J Organ Church137J Salophone138J Silophone1LP139Silophone1LP140Vibraphone1LP141Oibraphone1LP142GlockenspielLP143GlockenspielLP144J Silophone1LP145J ClestaLP146GlockenspielLP147J Silophone1LP148J Silophone1LP149J Silophone1LP141J Silophone1LP142J ClestaLP143J ClestaLP144J ClestaLP145J ClestaLP146J Silophone1LP147J Silophone1LP148J Silophone1LP149J ClestaLP140J ClestaLP141J Silophone1LP142J Silophone1LP143J Silophone1LP144J Silophone1LP145J Silophone1LP146 <td< td=""><td></td><td></td></td<>		
119H Organ 2nd Harmonic120H Organ Click Konf121H Organ Click Konf122ON-Click (Organ)123OFF-Click (Organ)124Pipe Flute L125Pipe Flute R126Pipe Positive127Pipe Positive128Pipe Full 1 R129Pipe Full 2130Pipe Full 2131E.Organ Church132Music Box133Music BoxLP134Kalimba135Kalimba GM136MarimbaLP137Japhone138Xylophone1140Vibraphone1LP141Celesta GM142CilestaLP143GlockenspielLP144Jog Drum145Steel Drum Hard146Steel Drum Hard151Steel Drum HardLP152Flute153Flute Falls154Flute Falls155Flute Falls156Flute Falls	117	Rotor Noise LS R
120         H Organ Click Kon           121         H Organ Click Koff           122         ON-Click (Organ)           123         OFF-Click (Organ)           124         Pipe Flute L           125         Pipe Flute R           126         Pipe Positive           127         Pipe Positive           128         Pipe Full 1 L           129         Pipe Full 1 R           130         Pipe Full 2           131         E.Organ Church           132         Music BoxLP           133         Music BoxLP           134         Kalimba GM           135         Kalimba GM           136         MarimbaLP           137         Balaphone           138         Xylophone1           139         Balaphone2           140         Vibraphone1LP           141         Vibraphone1LP           142         Celesta LP           143         GlockenspielLP           144         CelestaLP           145         GlockenspielLP           146         GlockenspielLP           147         Steel Drum HardLP           148         Tubular Bell <td>118</td> <td>H Organ Leakage</td>	118	H Organ Leakage
121         H Organ Click Koff           122         ON-Click (Organ)           123         OFF-Click (Organ)           124         Pipe Flute L           125         Pipe Flute R           126         Pipe Positive           127         Pipe Positive           128         Pipe Full 1 L           129         Pipe Full 1 R           121         Pipe Full 2           130         Pipe Full 2           131         E.Organ Church           132         Music Box           133         Music Box           134         Kalimba           135         Kalimba GM           136         MarimbaLP           137         MarimbaLP           138         Xylophone1LP           139         Balaphone           140         Vibraphone1LP           141         Celesta GM           142         Vibraphone1LP           143         Celesta GM           144         Celesta GM           145         Celesta GM           146         Glockenspiel           147         Jog Drum           148         Tubular Bell           149 <td>119</td> <td>H Organ 2nd Harmonic</td>	119	H Organ 2nd Harmonic
122ON-Click (Organ)123OFF-Click (Organ)124Pipe Flute L125Pipe Flute R126Pipe Positive127Pipe Mixture128Pipe Full 1 L129Pipe Full 2131E.Organ Church132Music BoxLP134Kalimba135Kalimba GM136MarimbaLP137MarimbaLP138Zylophone140Vibraphone1LP141Vibraphone1LP142Celesta <gm< td="">143Celesta<ip< td="">144Celesta GM145CelestaLP146Glockenspiel147Jisel Drum Hard148Tubular Bell149Steel Drum Hard151Steel Drum GM152Flute153Gamelan154Flute Falls155Flute156Flute Falls157Flute Falls</ip<></gm<>	120	H Organ Click Kon
123       OFF-Click (Organ)         124       Pipe Flute L         125       Pipe Flute R         126       Pipe Positive         127       Pipe Mixture         128       Pipe Full 1 L         129       Pipe Full 1 R         130       Pipe Full 2         131       E.Organ Church         132       Music Box         133       Music BoxLP         134       Kalimba         135       Kalimba GM         136       Marimba         137       MarimbaLP         138       Xylophone         139       Balaphone         141       Vibraphone1LP         142       Vibraphone2         143       Celesta GM         144       Celesta GM         145       Celesta GM         146       Glockenspiel         147       Glockenspiel         148       Tubular Bell         149       Steel Drum Hard         150       Steel Drum GM         151       Steel Drum GM         152       Steel Drum GM         153       Gamelan         154       Flute <falls< td=""></falls<>	121	H Organ Click Koff
124Pipe Flute L125Pipe Flute R126Pipe Positive127Pipe Mixture128Pipe Full 1 L129Pipe Full 2130Pipe Full 2131E.Organ Church132Music BoxLP133Music BoxLP134Kalimba135Kalimba GM136MarimbaLP137MarimbaLP138Xylophone140Vibraphone1LP141Vibraphone1LP142Celesta GM143Celesta GM144Celesta GM145GlockenspielLP146Steel Drum Hard147Steel Drum GM148Steel Drum GM154FM Bell155Flute156Flute Falls157Flute Falls158Flute Falls159Flute Gliss Up	122	ON-Click (Organ)
125       Pipe Flute R         126       Pipe Positive         127       Pipe Mixture         128       Pipe Full 1 L         129       Pipe Full 1 R         130       Pipe Full 2         131       E.Organ Church         132       Music Box         133       Music BoxLP         134       Kalimba         135       Kalimba GM         136       MarimbaLP         137       Balaphone         138       Xylophone1LP         139       Balaphone2         140       Vibraphone1LP         141       Vibraphone1LP         142       Celesta GM         143       Celesta GM         144       Celesta GM         145       Celesta GM         146       Glockenspiel         147       GlockenspielLP         148       Tubular Bell         149       Steel Drum Hard         150       Steel Drum GM         151       Steel Drum GM         152       Steel Drum GM         153       Gamelan         154       FM Bell         155       Flute <td< td=""><td>123</td><td>OFF-Click (Organ)</td></td<>	123	OFF-Click (Organ)
126       Pipe Positive         127       Pipe Mixture         128       Pipe Full 1 L         129       Pipe Full 1 R         130       Pipe Full 2         131       E.Organ Church         132       Music Box         133       Music BoxLP         134       Kalimba GM         135       Kalimba GM         136       MarimbaLP         137       MarimbaLP         138       Xylophone         139       Balaphone         140       Vibraphone1LP         141       Vibraphone2         142       Vibraphone2         143       Celesta GM         144       Celesta GM         145       Celesta GM         146       Glockenspiel         147       Glockenspiel         148       Tubular Bell         149       Log Drum         150       Steel Drum Hard         151       Steel Drum GM         152       Steel Drum GM         153       Gamelan         154       FM Bell         155       Flute         156       Flute Falls         157	124	Pipe Flute L
127         Pipe Mixture           128         Pipe Full 1 R           129         Pipe Full 1 R           130         Pipe Full 2           131         E.Organ Church           132         Music Box           133         Music BoxLP           134         Kalimba           135         Kalimba GM           136         MarimbaCP           137         MarimbaLP           138         Xylophone           139         Balaphone           140         Vibraphone1LP           141         Vibraphone1LP           142         Vibraphone2           143         Celesta           144         Celesta GM           145         Celesta GM           146         Glockenspiel           147         GlockenspielLP           148         Tubular Bell           149         Log Drum           150         Steel Drum Hard           151         Steel Drum GM           152         Steel Drum GM           153         Gamelan           154         FM Bell           155         Flute           156         Flute Falls <td>125</td> <td>Pipe Flute R</td>	125	Pipe Flute R
128         Pipe Full 1 L           129         Pipe Full 1 R           130         Pipe Full 2           131         E.Organ Church           132         Music Box           133         Music BoxLP           134         Kalimba           135         Kalimba GM           136         Marimba CM           137         MarimbaLP           138         Xylophone           139         Balaphone           141         Vibraphone1LP           142         Vibraphone2           143         Celesta           144         Celesta GM           145         Celesta GM           146         Glockenspiel           147         GlockenspielLP           148         Tubular Bell           149         Log Drum           150         Steel Drum Hard           151         Steel Drum GM           152         Steel Drum GM           153         Gamelan           154         FM Bell           155         Flute           156         Flute Falls           157         Flute Gliss Up	126	Pipe Positive
129       Pipe Full 1 R         130       Pipe Full 2         131       E.Organ Church         132       Music Box         133       Music BoxLP         134       Kalimba         135       Kalimba GM         136       Marimba GM         137       MarimbaLP         138       Xylophone         139       Balaphone         140       Vibraphone1LP         141       Vibraphone2         142       Vibraphone2         143       Celesta GM         144       Celesta GM         145       Celesta LP         146       Glockenspiel         147       GlockenspielLP         148       Tubular Bell         149       Log Drum         140       Steel Drum Hard         151       Steel Drum GM         152       Steel Drum GM         153       Gamelan         154       FM Bell         155       Flute         156       Flute Falls         157       Flute Gliss Up	127	Pipe Mixture
130         Pipe Full 2           131         E.Organ Church           132         Music Box           133         Music BoxLP           134         Kalimba           135         Kalimba GM           136         Marimba GM           137         Marimba GM           138         Kalimba GM           139         MarimbaLP           139         Balaphone           140         Vibraphone1LP           141         Vibraphone2           142         Vibraphone2           143         Celesta GM           144         Celesta GM           145         Celesta GM           146         Glockenspiel           147         GlockenspielLP           148         Tubular Bell           149         Log Drum           150         Steel Drum Hard           151         Steel Drum GM           152         Steel Drum GM           153         Gamelan           154         FM Bell           155         Flute           156         Flute Falls           157         Flute Gliss Up	128	Pipe Full 1 L
131       E.Organ Church         132       Music Box         133       Music BoxLP         134       Kalimba         135       Kalimba GM         136       Marimba         137       MarimbaLP         138       Xylophone         139       Balaphone         140       Vibraphone1         141       Vibraphone1LP         142       Vibraphone2         143       Celesta         144       Celesta GM         145       CelestaLP         146       Glockenspiel         147       GlockenspielLP         148       Tubular Bell         149       Steel Drum Hard         150       Steel Drum GM         151       Steel Drum GM         152       Flute         153       Gamelan         154       Flute         155       Flute         156       Flute Falls         157       Flute Gliss Up	129	Pipe Full 1 R
132       Music Box         133       Music BoxLP         134       Kalimba         135       Kalimba GM         136       Marimba GM         137       MarimbaLP         138       Xylophone         139       Balaphone         140       Vibraphone1         141       Vibraphone1LP         142       Vibraphone1         143       Celesta         144       Celesta GM         145       Celesta GM         146       Glockenspiel         147       Glockenspiel         148       Tubular Bell         149       Steel Drum Hard         150       Steel Drum GM         151       Steel Drum GM         152       Steel Drum GM         153       Gamelan         154       FM Bell         155       Flute         156       Flute Falls         157       Flute Gliss Up	130	Pipe Full 2
133       Music BoxLP         134       Kalimba GM         135       Kalimba GM         136       Marimba         137       MarimbaLP         138       Xylophone         139       Balaphone         140       Vibraphone1         141       Vibraphone1LP         142       Vibraphone2         143       Celesta         144       Celesta GM         145       CelestaLP         146       GlockenspielLP         147       GlockenspielLP         148       Tubular Bell         149       Log Drum         150       Steel Drum Hard         151       Steel Drum GM         152       Steel Drum GM         153       Gamelan         154       FM Bell         155       Flute         156       Flute Falls         157       Flute Gliss Up	131	E.Organ Church
134Kalimba135Kalimba GM136Marimba137MarimbaLP138Xylophone139Balaphone140Vibraphone1141Vibraphone1LP142Vibraphone2143Celesta144Celesta GM145Glockenspiel146GlockenspielLP147Steel Drum Hard148Steel Drum Hard150Steel Drum GM151Steel Drum GM152Flute153Gamelan154Flute155Flute156Flute Falls157Flute Supe	132	Music Box
135Kalimba GM136Marimba137MarimbaLP138Xylophone139Balaphone140Vibraphone1LP141Vibraphone1LP142Celesta143Celesta GM144Celesta GM145Glockenspiel146GlockenspielLP147Steel Drum Hard150Steel Drum GM151Steel Drum GM152Flute153Gamelan154Flute	133	Music BoxLP
136       Marimba         137       MarimbaLP         138       Xylophone         139       Balaphone         140       Vibraphone1         141       Vibraphone1LP         142       Vibraphone2         143       Celesta         144       Celesta GM         145       CelestaLP         146       GlockenspielLP         147       GlockenspielLP         148       Tubular Bell         149       Steel Drum Hard         150       Steel Drum GM         151       Steel Drum GM         152       Flute         153       Gamelan         154       Flute         155       Flute         156       Flute Falls         157       Flute Gliss Up	134	Kalimba
<ul> <li>137 MarimbaLP</li> <li>138 Xylophone</li> <li>139 Balaphone</li> <li>139 Balaphone</li> <li>140 Vibraphone1LP</li> <li>141 Vibraphone1LP</li> <li>142 Vibraphone2</li> <li>143 Celesta GM</li> <li>144 Celesta GM</li> <li>145 CelestaLP</li> <li>146 Glockenspiel</li> <li>147 GlockenspielLP</li> <li>148 Tubular Bell</li> <li>149 Steel Drum Hard</li> <li>150 Steel Drum GM</li> <li>152 Steel Drum GM</li> <li>153 Gamelan</li> <li>154 FM Bell</li> <li>155 Flute</li> <li>156 Flute Falls</li> <li>157 Flute Gloss Up</li> </ul>	135	Kalimba GM
138Xylophone139Balaphone140Vibraphone1141Vibraphone1LP142Vibraphone2143Celesta144Celesta GM145CelestaLP146GlockenspielLP147GlockenspielLP148Tubular Bell149Steel Drum Hard150Steel Drum GM151Gamelan152FM Bell153Flute154Flute Falls155Flute Falls	136	Marimba
139       Balaphone         140       Vibraphone1         141       Vibraphone1LP         142       Vibraphone2         143       Celesta         144       Celesta GM         145       CelestaLP         146       Glockenspiel         147       GlockenspielLP         148       Tubular Bell         149       Steel Drum Hard         150       Steel Drum HardLP         151       Steel Drum GM         152       Flute Ball         153       Gamelan         154       FM Bell         155       Flute         156       Flute Falls         157       Flute Gliss Up	137	MarimbaLP
140       Vibraphone1         141       Vibraphone1LP         142       Vibraphone2         143       Celesta         144       Celesta GM         145       Celesta LP         146       Glockenspiel         147       Glockenspiel         148       Tubular Bell         149       Log Drum         150       Steel Drum Hard         151       Steel Drum GM         152       Gamelan         153       Gamelan         154       FM Bell         155       Flute         156       Flute Falls         157       Flute Gliss Up	138	Xylophone
<ul> <li>141 Vibraphone1LP</li> <li>142 Vibraphone2</li> <li>143 Celesta</li> <li>144 Celesta GM</li> <li>145 CelestaLP</li> <li>146 Glockenspiel</li> <li>147 GlockenspielLP</li> <li>148 Tubular Bell</li> <li>149 Log Drum Hard</li> <li>150 Steel Drum Hard</li> <li>152 Steel Drum HardLP</li> <li>153 Gamelan</li> <li>154 FM Bell</li> <li>155 Flute</li> <li>156 Flute Falls</li> <li>157 Flute Gloss Up</li> </ul>	139	Balaphone
<ul> <li>142 Vibraphone2</li> <li>143 Celesta</li> <li>144 Celesta GM</li> <li>145 CelestaLP</li> <li>146 Glockenspiel</li> <li>147 GlockenspielLP</li> <li>148 Tubular Bell</li> <li>149 Log Drum</li> <li>150 Steel Drum Hard</li> <li>151 Steel Drum GM</li> <li>152 Steel Drum HardLP</li> <li>153 Gamelan</li> <li>154 FM Bell</li> <li>155 Flute</li> <li>156 Flute Falls</li> <li>157 Flute Gliss Up</li> </ul>	140	Vibraphone1
<ul> <li>143 Celesta</li> <li>144 Celesta GM</li> <li>145 CelestaLP</li> <li>146 Glockenspiel</li> <li>147 GlockenspielLP</li> <li>148 Tubular Bell</li> <li>149 Log Drum</li> <li>149 Steel Drum Hard</li> <li>150 Steel Drum HardLP</li> <li>151 Steel Drum HardLP</li> <li>152 Flute</li> <li>154 Flute Falls</li> <li>155 Flute Gloss Up</li> </ul>	141	Vibraphone1LP
<ul> <li>144 Celesta GM</li> <li>145 Celesta LP</li> <li>146 Glockenspiel</li> <li>147 GlockenspielLP</li> <li>148 Tubular Bell</li> <li>149 Log Drum</li> <li>150 Steel Drum Hard</li> <li>151 Steel Drum GM</li> <li>152 Steel Drum HardLP</li> <li>153 Gamelan</li> <li>154 FM Bell</li> <li>155 Flute</li> <li>156 Flute Falls</li> <li>157 Flute Gliss Up</li> </ul>	142	Vibraphone2
<ul> <li>145 CelestaLP</li> <li>146 Glockenspiel</li> <li>147 GlockenspielLP</li> <li>148 Tubular Bell</li> <li>149 Log Drum</li> <li>150 Steel Drum Hard</li> <li>151 Steel Drum HardLP</li> <li>152 Gamelan</li> <li>154 FM Bell</li> <li>155 Flute</li> <li>156 Flute Falls</li> <li>157 Flute Gliss Up</li> </ul>	143	Celesta
<ul> <li>146 Glockenspiel</li> <li>147 GlockenspielLP</li> <li>148 Tubular Bell</li> <li>149 Log Drum</li> <li>150 Steel Drum Hard</li> <li>151 Steel Drum GM</li> <li>152 Gamelan</li> <li>154 FM Bell</li> <li>155 Flute</li> <li>156 Flute Falls</li> <li>157 Flute Gliss Up</li> </ul>	144	Celesta GM
<ul> <li>147 GlockenspielLP</li> <li>148 Tubular Bell</li> <li>149 Log Drum</li> <li>150 Steel Drum Hard</li> <li>151 Steel Drum GM</li> <li>152 Steel Drum HardLP</li> <li>153 Gamelan</li> <li>154 FM Bell</li> <li>155 Flute</li> <li>156 Flute Falls</li> <li>157 Flute Gliss Up</li> </ul>	145	CelestaLP
<ul> <li>148 Tubular Bell</li> <li>149 Log Drum</li> <li>150 Steel Drum Hard</li> <li>151 Steel Drum GM</li> <li>152 Steel Drum HardLP</li> <li>153 Gamelan</li> <li>154 FM Bell</li> <li>155 Flute</li> <li>156 Flute Falls</li> <li>157 Flute Gliss Up</li> </ul>	146	Glockenspiel
<ul> <li>149 Log Drum</li> <li>150 Steel Drum Hard</li> <li>151 Steel Drum GM</li> <li>152 Steel Drum HardLP</li> <li>153 Gamelan</li> <li>154 FM Bell</li> <li>155 Flute</li> <li>156 Flute Falls</li> <li>157 Flute Gliss Up</li> </ul>	147	GlockenspielLP
<ul> <li>150 Steel Drum Hard</li> <li>151 Steel Drum GM</li> <li>152 Steel Drum HardLP</li> <li>153 Gamelan</li> <li>154 FM Bell</li> <li>155 Flute</li> <li>156 Flute Falls</li> <li>157 Flute Gliss Up</li> </ul>	148	Tubular Bell
<ul> <li>151 Steel Drum GM</li> <li>152 Steel Drum HardLP</li> <li>153 Gamelan</li> <li>154 FM Bell</li> <li>155 Flute</li> <li>156 Flute Falls</li> <li>157 Flute Gliss Up</li> </ul>	149	Log Drum
<ol> <li>Steel Drum HardLP</li> <li>Gamelan</li> <li>FM Bell</li> <li>Flute</li> <li>Flute Falls</li> <li>Flute Gliss Up</li> </ol>	150	Steel Drum Hard
<ol> <li>Gamelan</li> <li>FM Bell</li> <li>Flute</li> <li>Flute Falls</li> <li>Flute Gliss Up</li> </ol>	151	Steel Drum GM
<ol> <li>FM Bell</li> <li>Flute</li> <li>Flute Falls</li> <li>Flute Gliss Up</li> </ol>	152	Steel Drum HardLP
<ol> <li>Flute</li> <li>Flute Falls</li> <li>Flute Gliss Up</li> </ol>	153	Gamelan
<ul><li>156 Flute Falls</li><li>157 Flute Gliss Up</li></ul>	154	FM Bell
157 Flute Gliss Up	155	Flute
-	156	Flute Falls
158 Flute Gliss Down	157	Flute Gliss Up
	158	Flute Gliss Down

159	Flute Frull
160	Flute Voice
161	Flute Jazz
162	Flute Vibrato
163	Flute Attack p
164	Flute Attack f
165	Piccolo
166	Pan Flute
167	Pan Flute Attack
168	Tin Whistle
169	Tin Whistle Voice
170	Tin Whistle Attack
171	Whistle Gliss
172	Whistle No Vibr
173	Whistle Sfz Vibr
174	Whistle Sfz No Vibr
175	Whistle Slow Atk Vibr
176	Whistle Breath
177	Shakuhachi
178	Shakuhachi Atk
179	Shakuhachi Mid
180	Shakuhachi High
181	Bottle
182	Bottlizer
183	Shanai GM
184	Recorder
185	Ocarina
186	Clarinet 1 Vibrato p
187	Clarinet 1 Vibrato f
188	Clarinet 1 GlissUp
189	Clarinet 1 Fall
190	Clarinet 2
191	Clarinet 3
192	DoubleReed M1
193	Oboe 1 Vibrato
194	Oboe 2 Straight
195	Oboe key noises
196	Oboe get a breath
197	English Horn
198	Bassoon
199	Baritone Sax mf
200	Baritone Sax f
201	Baritone Sax Growl
202	Baritone Sax GM
203	Tenor Sax p Vib

201	
	Tenor Sax mf Vib
	Tenor Sax f Vib
	Tenor Sax ff Vib
	Tenor Sax Glissando
208	
	Tenor Sax mf Straight
210	
211	
	Tenor Sax Vibrato
213	1
	Tenor Sax mp
	Tenor Sax mf
	Tenor Sax Straight
	Tenor Sax M1
218	
	Alto Sax Vibrato1
	Alto Sax Vibrato2
	Alto Sax Vibrato2 Drive
	Alto Sax p
	Alto Sax mf
	Alto Sax GM
	Alto Sax Growl
	Soprano Sax Vibrato
	Soprano Sax Straight
	Soprano Sax GM
229	
230	
	Sax key off
	Sax breath
	Musette 1
	Musette 2
	Musette 2LP
	Musette 3 L
	Musette 3 R
	Accordion 16'
	Accordion 16' OrigTune
	Accordion 8'
	Accordion 8' OrigTune
	Accordion 4'
	Accordion 4' OrigTune
	Accordion preset 1
	Accordion preset 2
	Accordion Bassoon
	Accordion Clarinet
248	Accordion Bandoneon

249	Accordion Volkst.
250	Accordion Bass
251	Accordion Noise KeyOn
252	Accordion Noise KeyOff
253	Accordion Change Voice
254	Harmonica 1
255	Harmonica 1 Fall
256	Harmonica 2
257	Harmonica 3 Wah
258	Melodica
259	Melodica Key On
260	Melodica Key Off
261	Highland Bag Pipes
262	Highland Drones
263	Uilleann Pipes
264	Bag Pipes
265	Bag Pipes GM
266	French Horn T1
267	French Horn Ensemble
268	French Horns GM
269	Tenor Horn
270	Flugel Horn Vibrato
271	Flugel Horn M1
272	Tuba f
273	Tuba ff
274	Tuba GM
275	Tuba Bariton Attack
276	Trombone 1 mf
277	Trombone 1 f
278	Trombone 1 ff
279	Trombone 1 Gliss Up
280	Trombone 1 Fall
281	Trombone 1 Smear
282	Trombone 1 Smear Atk
283	Trombone 2 Vibrato
284	Trombone 3 mf
285	Trombone 3 f
286	Trombone 4 Soft
287	Trombone 4 Bright
288	Trombone 5 Straight fff
	Trombone Slur Up
290	Trombone Fall
291	Trombone GM
292	Trombone Muted
293	2 Trombones mf I

293 2 Trombones mf L

294	2 Trombones mf R
295	2 Trombones f L
296	2 Trombones f R
297	Classic Trumpet p
298	Classic Trumpet mf
299	Pop Trumpet mf
300	Pop Trumpet f
301	Trumpet Expr.
302	Trumpet Slow mp
303	Trumpet Slow f
304	Trumpet GM
305	Trumpet Tonguing mp
306	Trumpet Tonguing f
307	Trumpet Medium
308	Trumpet Overblown
309	Trumpet Muted
310	Trumpet Muted GM
311	Trumpet Wah wah
312	Trumpet WDH Vib
313	Trumpet WDH Shakes
314	Trumpet WDH Shakes Atk
315	Trumpet WDH Shakes Rel
316	Trumpet Doit
317	Trumpet Fall
	Trumpet Fall 2 Trumpets mp L
318	-
318	2 Trumpets mp L
318 319	2 Trumpets mp L 2 Trumpets mp R
318 319 320	2 Trumpets mp L 2 Trumpets mp R 2 Trumpets f L 2 Trumpets f R
<ul><li>318</li><li>319</li><li>320</li><li>321</li><li>322</li></ul>	2 Trumpets mp L 2 Trumpets mp R 2 Trumpets f L 2 Trumpets f R
<ul><li>318</li><li>319</li><li>320</li><li>321</li><li>322</li></ul>	<ul> <li>2 Trumpets mp L</li> <li>2 Trumpets mp R</li> <li>2 Trumpets f L</li> <li>2 Trumpets f R</li> <li>Brass Ensemble Stereo L</li> <li>Brass Ensemble Stereo R</li> </ul>
<ul> <li>318</li> <li>319</li> <li>320</li> <li>321</li> <li>322</li> <li>323</li> </ul>	<ol> <li>2 Trumpets mp L</li> <li>2 Trumpets mp R</li> <li>2 Trumpets f L</li> <li>2 Trumpets f R</li> <li>Brass Ensemble Stereo L</li> <li>Brass Ensemble Stereo R</li> <li>Brass Ensemble 1</li> </ol>
<ul> <li>318</li> <li>319</li> <li>320</li> <li>321</li> <li>322</li> <li>323</li> <li>324</li> </ul>	<ol> <li>2 Trumpets mp L</li> <li>2 Trumpets mp R</li> <li>2 Trumpets f L</li> <li>2 Trumpets f R</li> <li>Brass Ensemble Stereo L</li> <li>Brass Ensemble Stereo R</li> <li>Brass Ensemble 1</li> <li>Brass Ensemble 2</li> </ol>
<ul> <li>318</li> <li>319</li> <li>320</li> <li>321</li> <li>322</li> <li>323</li> <li>324</li> <li>325</li> </ul>	2 Trumpets mp L 2 Trumpets mp R 2 Trumpets f L 2 Trumpets f R Brass Ensemble Stereo L Brass Ensemble Stereo R Brass Ensemble 1 Brass Ensemble 2 Brass Ensemble 2LP
<ul> <li>318</li> <li>319</li> <li>320</li> <li>321</li> <li>322</li> <li>323</li> <li>324</li> <li>325</li> <li>326</li> </ul>	2 Trumpets mp L 2 Trumpets mp R 2 Trumpets f L 2 Trumpets f R Brass Ensemble Stereo L Brass Ensemble Stereo R Brass Ensemble 1 Brass Ensemble 2 Brass Ensemble 2LP Brass Ensemble GM
<ul> <li>318</li> <li>319</li> <li>320</li> <li>321</li> <li>322</li> <li>323</li> <li>324</li> <li>325</li> <li>326</li> <li>327</li> </ul>	2 Trumpets mp L 2 Trumpets mp R 2 Trumpets f L 2 Trumpets f R Brass Ensemble Stereo L Brass Ensemble Stereo R Brass Ensemble 1 Brass Ensemble 2 Brass Ensemble 2LP Brass Ensemble GM Soprano Voice
<ul> <li>318</li> <li>319</li> <li>320</li> <li>321</li> <li>322</li> <li>323</li> <li>324</li> <li>325</li> <li>326</li> <li>327</li> <li>328</li> </ul>	2 Trumpets mp L 2 Trumpets mp R 2 Trumpets f L 2 Trumpets f R Brass Ensemble Stereo L Brass Ensemble Stereo R Brass Ensemble 1 Brass Ensemble 2 Brass Ensemble 2LP Brass Ensemble GM Soprano Voice
<ul> <li>318</li> <li>319</li> <li>320</li> <li>321</li> <li>322</li> <li>323</li> <li>324</li> <li>325</li> <li>326</li> <li>327</li> <li>328</li> <li>329</li> </ul>	2 Trumpets mp L 2 Trumpets mp R 2 Trumpets f L 2 Trumpets f R Brass Ensemble Stereo L Brass Ensemble Stereo R Brass Ensemble 1 Brass Ensemble 2 Brass Ensemble 2LP Brass Ensemble GM Soprano Voice AD Soprano Voice AD
<ul> <li>318</li> <li>319</li> <li>320</li> <li>321</li> <li>322</li> <li>323</li> <li>324</li> <li>325</li> <li>326</li> <li>327</li> <li>328</li> <li>329</li> <li>330</li> </ul>	2 Trumpets mp L 2 Trumpets mp R 2 Trumpets f L 2 Trumpets f R Brass Ensemble Stereo L Brass Ensemble Stereo R Brass Ensemble 1 Brass Ensemble 2 Brass Ensemble 2LP Brass Ensemble GM Soprano Voice AD Soprano Voice AD
<ul> <li>318</li> <li>319</li> <li>320</li> <li>321</li> <li>322</li> <li>323</li> <li>324</li> <li>325</li> <li>326</li> <li>327</li> <li>328</li> <li>329</li> <li>330</li> <li>331</li> <li>332</li> <li>333</li> </ul>	2 Trumpets mp L 2 Trumpets mp R 2 Trumpets f L 2 Trumpets f R Brass Ensemble Stereo L Brass Ensemble Stereo R Brass Ensemble 1 Brass Ensemble 2 Brass Ensemble 2LP Brass Ensemble GM Soprano Voice AD Soprano Voice AD Soprano Voice 4thUP Voice Female Wuh
<ul> <li>318</li> <li>319</li> <li>320</li> <li>321</li> <li>322</li> <li>323</li> <li>324</li> <li>325</li> <li>326</li> <li>327</li> <li>328</li> <li>329</li> <li>330</li> <li>331</li> <li>332</li> <li>333</li> </ul>	2 Trumpets mp L 2 Trumpets mp R 2 Trumpets f L 2 Trumpets f R Brass Ensemble Stereo L Brass Ensemble Stereo R Brass Ensemble 1 Brass Ensemble 2 Brass Ensemble 2LP Brass Ensemble GM Soprano Voice AD Soprano Voice AD Soprano Voice 5thDW Soprano Voice 5thDW Voice Female Wuh Voice Female Woh
<ul> <li>318</li> <li>319</li> <li>320</li> <li>321</li> <li>322</li> <li>323</li> <li>324</li> <li>325</li> <li>326</li> <li>327</li> <li>328</li> <li>329</li> <li>330</li> <li>331</li> <li>332</li> <li>333</li> </ul>	2 Trumpets mp L 2 Trumpets mp R 2 Trumpets f L 2 Trumpets f R Brass Ensemble Stereo L Brass Ensemble Stereo R Brass Ensemble 1 Brass Ensemble 2 Brass Ensemble 2LP Brass Ensemble GM Soprano Voice AD Soprano Voice AD Soprano Voice 5thDW Soprano Voice 5thDW Voice Female Wuh Voice Female Wuh
<ul> <li>318</li> <li>319</li> <li>320</li> <li>321</li> <li>322</li> <li>323</li> <li>324</li> <li>325</li> <li>326</li> <li>327</li> <li>328</li> <li>329</li> <li>330</li> <li>331</li> <li>332</li> <li>333</li> <li>334</li> <li>335</li> </ul>	2 Trumpets mp L 2 Trumpets mp R 2 Trumpets f L 2 Trumpets f R Brass Ensemble Stereo L Brass Ensemble Stereo R Brass Ensemble 1 Brass Ensemble 2 Brass Ensemble 2LP Brass Ensemble GM Soprano Voice AD Soprano Voice AD Soprano Voice 5thDW Soprano Voice 5thDW Voice Female Wuh Voice Female Woh
<ul> <li>318</li> <li>319</li> <li>320</li> <li>321</li> <li>322</li> <li>323</li> <li>324</li> <li>325</li> <li>326</li> <li>327</li> <li>328</li> <li>329</li> <li>330</li> <li>331</li> <li>332</li> <li>333</li> <li>334</li> <li>335</li> </ul>	2 Trumpets mp L 2 Trumpets mp R 2 Trumpets f L 2 Trumpets f R Brass Ensemble Stereo L Brass Ensemble Stereo R Brass Ensemble 1 Brass Ensemble 2 Brass Ensemble 2LP Brass Ensemble GM Soprano Voice AD Soprano Voice AD Soprano Voice 5thDW Soprano Voice 5thDW Voice Female Wuh Voice Female Wuh Voice Female Wah

	Voice Male Dah
340	Voice Scat Buh
	Voice Scat Duh
342	Voice Scat Bah
343	Voice Scat Dah
344	Voice Choir
345	Voice Hoo
346	Voice Pop Ooh
347	Voice Pop Ah
348	Voice Doo
349	Voice DooLP
350	Violin1 Classic
351	Violin1 Gliss Up
352	Violin1 Gliss Dw
353	Violin1 Strings free
354	Violin1 Trill Up
355	Violin 2 Solo Vibrato
356	Violin 2 Straight
357	Violin GM
358	Fiddle GM
359	Viola Expressive mf
360	Viola Expressive f
361	Viola GM
362	Cello & Contrabass
363	Cello GM
364	Violin & Cello
365	Strings Quartet Vibrato1
366	Strings Quartet Vibrato2
367	Pizzicato
368	Strings Ensemble St L
369	Strings Ensemble St R
370	Strings Ensemble GM L
371	Strings Ensemble GM R
372	Strings Ensemble Mono
373	Strings Ensemble Tremolo
374	Pizzicato Ensemble
375	Harp Stereo L
376	Harp Stereo R
377	Harp Atk L
378	Harp Atk R
379	Harp Mono
380	Ac.Gtr muted p L
381	Ac.Gtr muted p R
382	Ac.Gtr muted f L
383	Ac.Gtr muted f R

384 Ac.Gtr Dwn1 L 385 Ac.Gtr Dwn1 R 386 Ac.Gtr Dwn2 L 431 387 Ac.Gtr Dwn2 R 432 388 Ac.Gtr Dwn3 L 433 Ac.Gtr Dwn3 R 434 Nylon Gtr2 p 389 Ac.Gtr SlideHT Up p L 390 435 Ac.Gtr SlideHT Up p R Nylon Gtr2 f 391 436 392 Ac.Gtr SlideHT Up f L 437 393 Ac.Gtr SlideHT Up f R 438 394 Ac.Gtr Harmonics L 439 395 Ac.Gtr Harmonics R 440 396 Ac.Gtr RX noises L 441 Ac.Gtr RX noises R 397 442 Ac.Gtr finger off L 443 Stra Pos2 MtS5 398 Ac.Gtr finger off R 399 444 400 Steel Gtr 1 Pick p 445 401 Steel Gtr 1 Pick mf 446 402 Steel Gtr 1 Pick f 447 403 Steel Gtr 1 Mute 448 404 Steel Gtr 1 Slide 449 Stra Pos2 dw1 405 Steel Gtr 2 p 450 Stra Pos2 dw2 451 Stra Pos2 dw3 406 Steel Gtr 2 mf 452 Stra Pos2 dw4 407 Steel Gtr 2 f 408 Steel Gtr 2 Slap Stra Pos2 dw5 453 Steel Gtr 2 Slide Stra Pos2 up1 409 454 Steel Gtr 12 Strings Stra Pos2 up2 410 455 411 Steel Gtr Harmonics 1 Stra Pos2 up3 456 412 Steel Gtr Harmonics 2 457 Stra Pos2 up4 413 Steel Gtr Noise 458 Stra Pos2 up5 414 Guitar Fret Noise Off 459 415 Guitar Noise Off 460 416 Guitar Body 461 417 Guitar Noise Attack Off 462 Stra Pos2 Harm 7 418 Nylon Gtr1 p L 463 419 Nylon Gtr1 p R Nylon Gtr1 mf1 L 420 465 421 Nylon Gtr1 mf1 R 466 422 Nylon Gtr1 mf2 L 467 423 Nylon Gtr1 mf2 R 424 Nylon Gtr1 mf3 L 469 Stra RX2 425 Nylon Gtr1 mf3 R 470 426 Nylon Gtr1 f L 471 427 Nylon Gtr1 f R 472 428 Nylon Gtr1 Slide p L

429 Nylon Gtr1 Slide p R 430 Nylon Gtr1 Slide f L Nylon Gtr1 Slide f R Nylon Gtr1 Harmonics L Nylon Gtr1 Harmonics R Nylon Gtr2 mf Nylon Gtr2 Atk Nylon Gtr2 GM Stra Pos2 MtS1 Stra Pos2 MtS2 Stra Pos2 MtS3 Stra Pos2 MtS4 Stra Pos2 MtS6 Stra Pos2 MtL1 Stra Pos2 MtL2 Stra Pos2 MtL3 Stra Pos2 MtL4 Stra Pos2 SlideHT p Stra Pos2 SlideHT f Stra Pos2 Harm 12 Stra Pos2 Harm 5 464 Stra Pop2 Ghost UP Stra Pop2 Ghost DW Stra Pop2 Fret Nuances Stra Pop2 Key Off 468 Stra RX1 (Old Compatib) El. Guitar Stra 54 p El. Guitar Stra 54 mf El. Guitar Stra 54 f 473 El. Guitar Stra 54 Slide

474 El. Guitar Tel Mid p El. Guitar Tel Mid mf 475 El. Guitar Tel Mid f 476 El. Guitar Tel Bridge p 477 El. Guitar Tel Bridge mf 478 El. Guitar Tel Bridge f 479 El. Guitar Tel Mt 5th pp 480 El. Guitar Tel Mt 5th p 481 El. Guitar Tel Mt 5th mf 482 483 El. Guitar Tel Mt 5th f El. Guitar Tel Mt 5th ff 484 485 El. Guitar Tel Mt 5th Ko 486 El. Guitar Clean Str p 487 El. Guitar Clean Str f 488 El. Guitar Clean Mute El. Guitar Clean Dead 489 490 El. Guitar Clean Slap El. Guitar Clean Slide 491 El. Guitar Clean GM 492 El. Guitar Fret Noise GM 493 494 El. Guitar Cut Noise GM 495 El. Guitar Le Neck 496 El. Guitar Le Bridge El. Guitar Le Mute p 497 El. Guitar Le Mute mf 498 El. Guitar Le Ghost1 499 500 El. Guitar Le Ghost2 El. Guitar Harmonics 501 502 El. Guitar Gliss Down El. Guitar Gliss Up 503 El. Guitar Noise 504 505 El. Guitar Short Noise 506 El. Guitar Fret Noise El. Guitar Les P. 507 508 Jazz Guitar1 Jazz Guitar2 509 510 Jazz Gib mellow p Jazz Gib mellow mf 511 512 Jazz Gib mellow f 513 Pedal Steel Guitar 514 Resonator Guitar 515 Vox Wah Guitar 516 Overdrive GM 517 Dist. Guitar 518 Dist. Guitar GM

519 Dist. Guitar1 Harmo. 520 Gtr Harmonic GM 521 Dist. Guitar2 Harmo P1 522 Dist. Guitar2 Harmo P2 523 Dist. Guitar2 Mute1 524 Dist. Guitar2 Mute2 525 El. Guitar DistMuted p 526 El. Guitar DistMuted mp El. Guitar PowerChord1 527 528 El. Guitar PowerChord2 El. Guitar PowerChord3 529 530 Ac.Bass Natural 531 Ac.Bass Natural Key Off 532 Ac.Bass Natural Ghost 533 Acoustic Bass1 534 Acoustic Bass2 mf 535 Acoustic Bass2 f 536 Acoustic Bass3 mp 537 Acoustic Bass3 mp VAR 538 Acoustic Bass3 mf Acoustic Bass3 mf VAR 539 540 Acoustic Bass3 f 541 Acoustic Bass3 f VAR 542 Acoustic Bass GM 543 Acoustic Bass RX Noises Bass Prec FW Finger 544 Bass Prec RW Finger 545 Bass Prec RW FingerDeads 546 Bass Prec Pick Open mf 547 Bass Prec Pick Open f 548 Bass Prec Pick Dead 549 550 Bass Sray Finger **Bass Sray Harmonics** 551 552 Bass Sray Deads Bass Sray HandNoise 553 554 Bass Almb Fingered mf Bass Almb Fingered f 555 556 Bass Fjazz Fingered Bass Fjazz pickmute mf 557 558 Bass Fjazz pickmute f Bass Fjazz Ghost 559 560 E.Bass1 Finger 561 E.Bass2 P.B.1 562 E.Bass2 P.B.2

563 E.Bass2 LH Stop

	E.Bass2 RH Stop
	E.Bass2 Harmo.
	E.Bass3 p
	E.Bass3 mf
	E.Bass3 f Slap
569	E.Bass4 Pick
570	E.Bass4 Harmo.
571	E.Bass4 Slap
572	E.Bass4 SlapHar
573	E.Bass4 LH Mute
574	E.Bass4 RH Mute
575	E.Bass5 Finger
576	E.Bass6 Finger
577	E.Bass6 FingerLP
578	E.Bass7 Finger
579	E.Bass8 Pick
580	E.Bass9 Pick Muted1
581	E.Bass9 Pick Muted2
582	E.Bass9 Pick
583	E.Bass9 PickLP
584	E.Bass10 Thumb
585	E.Bass11 SlapThumb
586	E.Bass11 SlapThumbLP
587	E.Bass Gliss
588	E.Bass Noise1
589	E.Bass Noise2
590	E.Bass Harmonics
591	E.Bass HarmonicsLP
592	E.Bass Fretless 1
593	E.Bass Fretless 2
594	Finger Bass GM
595	Picked Bass GM
596	Slap Bass1 GM
597	Slap Bass2 GM
598	Fretless Bass GM
599	Sitar 1
600	Sitar2
601	Sitar GM
602	Sitar & Tambura
603	Zither
604	Santur
605	SanturLP
606	Tambura
607	TamburaLP
608	Bouzouki

609	BouzoukiLP
610	Mandolin Dw mf L
611	Mandolin Dw mf R
612	Mandolin Dw f L
613	Mandolin Dw f R
614	Mandolin Up L
615	Mandolin Up R
616	Mandolin
617	MandolinLP
618	Mandolin Tremolo
619	Mandolin Ensemble
620	Banjo
621	Banjo GM
622	BanjoLP
623	Cavaquino p
624	Cavaquino mf
625	Cavaquino f
626	Ukulele
627	Shamisen
628	Shamisen GM
629	Koto
630	Koto GM
631	M.E. Oud
632	M.E. Oud Tek
633	M.E. Kanoun1
634	M.E. Kanoun2
635	M.E. Kanoun Tremolo
636	M.E. Baglama1
637	M.E. Baglama2
638	M.E. Zurna
639	M.E. Klarnet Tek
640	M.E. Klarnet
641	M.E. Nay
642	Mouth Harp1
643	Mouth Harp2
644	Mouth Harp3
645	Mouth Harp4
646	Mouth Harp5
647	Syn Flute Pad
648	Syn Bass Reso
649	Syn Bass FM1
650	,
651	,
652	Syn Bass FM2LP
653	Syn Bass TB

654	R&B Saw Bass	699	Pulse 33%	744	Gallop
655	R&B Square Bass	700	Pulse 40%	745	Laughing
656	Chrom Res	701	Square	746	Telephone Ring
657	Compulsynth	702	Square MG	747	Scream
658	Monst Classic	703	Square JP	748	Punch
659	Monst Distort	704	Triangle MG	749	Heart Beat
660	NextDance	705	Ramp	750	Footstep 1
661	Detuned Super	706	Ramp MG	751	Footstep2
662	Detuned PWM	707	Sine	752	Door Creak
663	Synth Brass	708	DWGS Syn Sine1	753	Door Slam
664	Pop Synth	709	DWGS Syn Sine2	754	Car Engine
665	An.Strings1	710	DWGS Organ1	755	Car EngineLP
666	An.Strings2	711	DWGS Organ2	756	Car Stop
667	Analog Vintage	712	DWGS Bell1	757	Car Pass
668	White Pad	713	DWGS Bell2	758	Car Crash
669	N1 Air Vox	714	DWGS Bell3	759	Train
670	SynthBell	715	DWGS Bell4	760	Helicopter
671	Ether Bell	716	DWGS Clav.	761	Gun Shot
672	Ether BellLP	717	DWGS Digi1	762	Machine Gun
673	Lore	718	DWGS Digi2	763	Laser Gun
674	Lore NT	719	DWGS Wire1	764	Explosion
675	Space Lore	720	DWGS Wire2	765	Wind
676	Wave Sweep1	721	DWGS Sync1	766	Chinese Gong
677	Wave Sweep2	722	DWGS Sync2	767	Crash
678	Wave Sweep3	723	DWGS Sync3	768	Crash Reverse
679	Syn Ghostly	724	Orchestra Hit 1	769	Crash Reverse GM
680	Ghost	725	Orchestra Hit 2	770	Orchestra Crash
681	Syn Air Pad	726	Orchestra Hit GM L	771	Ride Jazz
682	Dream Str	727	Orchestra Hit GM R	772	Ride Edge1
683	Syn AirVortex	728	Band Hit	773	Ride Edge2
684	Syn Palawan	729	Impact Hit	774	HiHat Closed
685	Syn Clicker	730	Brass Fall	775	88 HiHat Open
686	Cricket Spectrum	731	Vibe Chord	776	88 Cowbell
687	Noise1	732	Zap1	777	88 Tom
688	Noise2	733	Zap2	778	88 Conga
689	Noise Pad	734	Stadium	779	88 Crash
690	Swish Terra	735	Applause	780	Tom
691	Gamelan XEQ	736	Birds1	781	Tom Brush
692	Saw1	737	Birds2	782	Tom Process
693	Saw2	738	Crickets	783	Electric Tom
694	Saw3	739	Church Bell	784	Melodic Tom GM
695	Pulse 02%	740	Thunder	785	Flexatone
696	Pulse 05%	741	Stream	786	Tambourine
697	Pulse 08%	742	Bubble	787	Agogo Bell
698	Pulse 16%	743	Dog	788	Meditation Tree

789 Marc Tree 790 Marc TreeLP 791 Rain Stick 792 Cowbell 793 Castanet 794 Temple Blocks 795 Orchestra BD 796 Timpani 797 Taiko 798 Djembe Open 799 Djembe Mute 800 Conga 801 Quinto & Bongo 802 Okonkolo 803 Timbales 804 Cowbell & Clave 805 Cabasa

806 Shaker 807 Cabasa & Shaker 808 Dumbek - Djambe - Udu 809 Caxixi 810 Tabla & Baya 811 WoodBlock & Castanet 812 Mix Latin Percussion 813 Kangaroo 814 DJ Eddie Set 815 Claps Natural Set1 L 816 Claps Natural Set1 R 817 Claps Natural Set2 L 818 Claps Natural Set2 R 819 Claps Natural Set3 L 820 Claps Natural Set3 R 821 Snare Ghost 822 Stereo Snares1&2 L

823 Stereo Snares1&2 R
824 Stereo Snare1 L
825 Stereo Snare1 R
826 Stereo Snare2 L
827 Stereo Snare2 R
828 FX SD Large Hall1 L
830 FX SD Large Hall2 R
831 FX SD Large Hall2 R
832 FX Rim Large Hall1 R
833 FX Rim Large Hall2 L
834 FX Rim Large Hall2 R
835 FX Rim Large Hall2 R
836 Click
837 Empty

# Drum Samples

The following table contains all Pa3XLe Factory Drum Samples.

#	Nama	Family
#	Name	Family
0	BD 22 Inch Std1	Bass Drum
1	BD 22 Inch Std2	Bass Drum
2	BD 22 Inch Std3	Bass Drum
3	BD 22 Inch Std4	Bass Drum
4	BD 22 Inch Std5	Bass Drum
5	BD 22 Inch Std6	Bass Drum
6	BD 24x14 p	Bass Drum
7	BD 24x14 mf	Bass Drum
8	BD 24x14 f	Bass Drum
9	BD 24x14 f GM	Bass Drum
10	BD 24 inch Open p	Bass Drum
11	BD 24 inch Open mf	Bass Drum
12	BD 24 inch Open f	Bass Drum
13	BD 26 inch Open p	Bass Drum
14	BD 26 inch Open mf	Bass Drum
15	BD 26 inch Open f	Bass Drum
16	BD 26 inch Open ff	Bass Drum
17	BD 26 inch Open ff GM	Bass Drum
18	BD 26 inch Std p	Bass Drum
19	BD 26 inch Std mf	Bass Drum
20	BD 26 inch Std f	Bass Drum
21	BD 26 inch Std ff	Bass Drum
22	BD Natural1 p	Bass Drum
23	BD Natural1 mf	Bass Drum
24	BD Natural1 f	Bass Drum
25	BD Natural2 p	Bass Drum
26	BD Natural2 mf	Bass Drum
27	BD Natural2 f	Bass Drum
28	BD Natural2 ff	Bass Drum
29	BD Pop1	Bass Drum
30	BD Pop2	Bass Drum
31	BD Pop3 p	Bass Drum
32	BD Pop3 f	Bass Drum
33	BD Pop4 p	Bass Drum
34	BD Pop4 f	Bass Drum
35	BD Pop5	Bass Drum
36	BD Acoustic1 p	Bass Drum
37	BD Acoustic1 mf	Bass Drum
38	BD Acoustic1 f	Bass Drum
39	BD Acoustic2 mf	Bass Drum
40	BD Acoustic2 mf GM	Bass Drum
41	BD Acoustic2 f	Bass Drum
42	BD Acoustic2 f GM	Bass Drum
43	BD open p	Bass Drum
44	BD open mf	Bass Drum
45	BD open f	Bass Drum
46	BD Peak	Bass Drum

#	Name	Family
47	BD Dry1	Bass Drum
48	BD Dry2	Bass Drum
49	BD Dry3	Bass Drum
50	BD Normal	Bass Drum
51	BD SoftRoom	Bass Drum
52	BD Jazz open p	Bass Drum
53	BD Jazz open f	Bass Drum
54	BD Jazz wire open p	Bass Drum
55	BD Jazz wire open f	Bass Drum
56	BD Jazz	Bass Drum
57	BD Jazz GM	Bass Drum
58	BD Pillow	Bass Drum
59	BD Woofer	Bass Drum
60	BD MondoKill	Bass Drum
61	BD Terminator	Bass Drum
62	BD Tubby	Bass Drum
63	BD Gated	Bass Drum
64	BD Tight	Bass Drum
65	BD Squash	Bass Drum
66	BD Soul1	Bass Drum
67	BD Soul2	Bass Drum
68	BD Soul3 dist	Bass Drum
69	BD Soul4 noise	Bass Drum
70	BD Soul5 Long	Bass Drum
71	BD Soul6	Bass Drum
72	BD Dance1	Bass Drum
73	BD Dance2	Bass Drum
74	BD Dance3	Bass Drum
75	BD House1	Bass Drum
76	BD House2	Bass Drum
77	BD House3	Bass Drum
78	BD House4	Bass Drum
79	BD House5	Bass Drum
80	BD Liquid	Bass Drum
81	BD Techno1	Bass Drum
82	BD Techno2	Bass Drum
83	BD Hip1	Bass Drum
84	BD Hip2	Bass Drum
85	BD Hip3	Bass Drum
86	BD Hip4	Bass Drum
87	BD Kick1	Bass Drum
88	BD Kick2	Bass Drum
89	Electro Kick	Bass Drum
90	BD Ambient	Bass Drum
91	BD Ambient Crackle	Bass Drum
92	BD Ambient Rocker	Bass Drum
93	BD Pop	Bass Drum
94	BD Deep	Bass Drum
95	BD Deep GM	Bass Drum
96	BD Klanger	Bass Drum

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#	Name	Family
97	BD Electribe01	Bass Drum
98	BD Electribe02	Bass Drum
99	BD Electribe03	Bass Drum
100	BD Electribe04	Bass Drum
101	BD Electribe05	Bass Drum
102	BD Electribe06	Bass Drum
103	BD Electribe07	Bass Drum
104	BD Electribe08	Bass Drum
105	BD Electribe09	Bass Drum
106	BD Electribe10	Bass Drum
107	BD Electribe11	Bass Drum
108	BD Electribe12	Bass Drum
109	BD Electribe13	Bass Drum
110	BD Electribe14	Bass Drum
111	BD Electribe15	Bass Drum
112	BD Electribe16	Bass Drum
113	BD Electribe17	Bass Drum
114	Syn. BD1	Bass Drum
115	Syn. BD2	Bass Drum
116	Syn. BD3	Bass Drum
117	Syn. BD4	Bass Drum
118	Syn. BD Buzz	Bass Drum
119	BD Orchestra Open p	Bass Drum
120	BD Orchestra Open f	Bass Drum
121	BD Orchestra muted	Bass Drum
122	BD Orchestra	Bass Drum
123	BD Orchestra GM	Bass Drum
124	Timpani	Bass Drum
125	SD Crv p	Snare Drum
126	SD Crv mf	Snare Drum
127	SD Crv f	Snare Drum
128	SD Crv+Rim p	Snare Drum
129	SD Crv+Rim mf	Snare Drum
130	SD Crv+Rim f	Snare Drum
131	SD CrvOpen pp	Snare Drum
132	SD CrvOpen p	Snare Drum
133	SD CrvOpen mf	Snare Drum
134	SD CrvOpen f	Snare Drum
135	SD CrvOpRim pp	Snare Drum
136	SD CrvOpRim p	Snare Drum
137	SD CrvOpRim mf	Snare Drum
138	SD CrvOpRim f	Snare Drum
139	SD Crv Roll p	Snare Drum
140	SD Crv Roll mf	Snare Drum
141	SD Crv Roll f	Snare Drum
142	SD Crv Stage p	Snare Drum
143	SD Crv Stage mf	Snare Drum
144	SD Crv Stage f	Snare Drum
145	SD Crv+Rim Stage p	Snare Drum
146	SD Crv+Rim Stage mf	Snare Drum

#	Name	Family
147	SD Crv+Rim Stage f	Snare Drum
148	SD Crv Open Stage pp	Snare Drum
149	SD Crv Open Stage p	Snare Drum
150	SD Crv Open Stage mf	Snare Drum
151	SD Crv Open Stage f	Snare Drum
152	SD Crv OpRim Stage pp	Snare Drum
153	SD Crv OpRim Stage p	Snare Drum
154	SD Crv OpRim Stage mf	Snare Drum
155	SD Crv OpRim Stage f	Snare Drum
156	SD Crv Gate1 p	Snare Drum
157	SD Crv Gate1 mf	Snare Drum
158	SD Crv Gate1 f	Snare Drum
159	SD Crv+Rim Gate1 p	Snare Drum
160	SD Crv+Rim Gate1 mf	Snare Drum
161	SD Crv+Rim Gate1 f	Snare Drum
162	SD Crv OpRim Gate1 pp	Snare Drum
163	SD Crv OpRim Gate1 p	Snare Drum
164	SD Crv OpRim Gate1 mf	Snare Drum
165	SD Crv OpRim Gate1 f	Snare Drum
166	SD Crv Roll Gate1 p	Snare Drum
167	SD Crv Roll Gate1 mf	Snare Drum
168	SD Crv Roll Gate1 f	Snare Drum
169	SD Crv Gate2 p	Snare Drum
170	SD Crv Gate2 mf	Snare Drum
171	SD Crv Gate2 f	Snare Drum
172	SD Crv+Rim Gate2 p	Snare Drum
173	SD Crv+Rim Gate2 mf	Snare Drum
174	SD Crv+Rim Gate2 f	Snare Drum
175	SD Crv Roll Gate2 p	Snare Drum
176	SD Crv Roll Gate2 mf	Snare Drum
177	SD Crv Roll Gate2 f	Snare Drum
178	SD Crv+Rim Plate p	Snare Drum
179	SD Crv+Rim Plate mf	Snare Drum
180	SD Crv+Rim Plate f	Snare Drum
181	SD Crv Open Plate pp	Snare Drum
182	SD Crv Open Plate p	Snare Drum
183	SD Crv Open Plate mf	Snare Drum
184	SD Crv Open Plate f	Snare Drum
185	SD Crv OpRim Plate pp	Snare Drum
186	SD Crv OpRim Plate p	Snare Drum
187	SD Crv OpRim Plate mf	Snare Drum
188	SD Crv OpRim Plate f	Snare Drum
189	SD Crv Open Room pp	Snare Drum
190	SD Crv Open Room p	Snare Drum
191	SD Crv Open Room mf	Snare Drum
192	SD Crv Open Room f	Snare Drum
193	SD Crv OpRim Room pp	Snare Drum
194	SD Crv OpRim Room p	Snare Drum
195	SD Crv OpRim Room mf	Snare Drum
196	SD Crv OpRim Room f	Snare Drum
197	SD LdwBB1A Cl1	Snare Drum
198	SD LdwBB1A Cl2	Snare Drum
199	SD LdwBB1A Cl3	Snare Drum

#NameFamily200SD LdwBB1A Cl4Snare Drum201SD LdwBB1A OpRim1Snare Drum203SD LdwBB1A OpRim3Snare Drum204SD LdwBB1A OpRim4Snare Drum205SD LdwBB1A Roll1Snare Drum206SD LdwBB1A Roll2Snare Drum207SD LdwBB1A Roll3Snare Drum208SD LdwBB1B Op1Snare Drum209SD LdwBB1B Op2Snare Drum210SD LdwBB1B Op3Snare Drum211SD LdwBB1B Op4Snare Drum212SD LdwBB1B OpRim2Snare Drum213SD LdwBB1B OpRim3Snare Drum214SD LdwBB1B OpRim3Snare Drum215SD LdwBB2 OpRim4Snare Drum216SD LdwBB2 Std3Snare Drum217SD LdwBB2 Roll1Snare Drum218SD LdwBB2 Roll2Snare Drum220SD LdwBB2 Roll3Snare Drum221SD LdwBB2 Roll3Snare Drum222SD LdwBB2 Roll4Snare Drum223SD LdwBB2 Roll5Snare Drum224SD LdwBB2 Roll4Snare Drum225SD LdwSup Std FSnare Drum226SD LdwSup Std FSnare Drum227SD LdwSup Std Gate pSnare Drum228SD LdwSup Std Gate fSnare Drum230SD LdwSup Std Gate fSnare Drum231SD LdwSup Std Room fSnare Drum232SD LdwSup Std Room fSnare Drum233SD LdwSup Std Ro			
201SD LdwBB1A OpRim1Snare Drum202SD LdwBB1A OpRim2Snare Drum203SD LdwBB1A OpRim3Snare Drum204SD LdwBB1A A OpRim4Snare Drum205SD LdwBB1A Roll1Snare Drum206SD LdwBB1A Roll2Snare Drum207SD LdwBB1A Roll3Snare Drum208SD LdwBB1B Op1Snare Drum209SD LdwBB1B Op2Snare Drum210SD LdwBB1B Op3Snare Drum211SD LdwBB1B Op4Snare Drum212SD LdwBB1B Op8im1Snare Drum213SD LdwBB1B OpRim3Snare Drum214SD LdwBB2 OpRim1Snare Drum215SD LdwBB2 OpRim3Snare Drum216SD LdwBB2 Std1Snare Drum217SD LdwBB2 Std2Snare Drum218SD LdwBB2 Std3Snare Drum220SD LdwBB2 Roll3Snare Drum221SD LdwBB2 Roll3Snare Drum222SD LdwBB2 Roll3Snare Drum223SD LdwSup Std FSnare Drum224SD LdwSup Std FSnare Drum225SD LdwSup Std FSnare Drum226SD LdwSup Std FSnare Drum227SD LdwSup Std FSnare Drum228SD LdwSup Std FSnare Drum229SD LdwSup Std FSnare Drum231SD LdwSup Std FSnare Drum232SD LdwSup Std FSnare Drum233SD LdwSup Std Gate FSnare Drum234SD LdwSup Std Roo	#	Name	Family
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203SD LdwBB1A OpRim3Snare Drum204SD LdwBB1A Roll1Snare Drum205SD LdwBB1A Roll2Snare Drum206SD LdwBB1A Roll3Snare Drum207SD LdwBB1A Roll3Snare Drum208SD LdwBB1B Op1Snare Drum209SD LdwBB1B Op2Snare Drum210SD LdwBB1B Op3Snare Drum211SD LdwBB1B Op4Snare Drum212SD LdwBB1B OpRim1Snare Drum213SD LdwBB1B OpRim3Snare Drum214SD LdwBB1B OpRim3Snare Drum215SD LdwBB2 OpRim4Snare Drum216SD LdwBB2 Std1Snare Drum217SD LdwBB2 Std2Snare Drum218SD LdwBB2 Std2Snare Drum220SD LdwBB2 Roll1Snare Drum221SD LdwBB2 Roll2Snare Drum222SD LdwBB2 Roll3Snare Drum223SD LdwBB2 Roll4Snare Drum224SD LdwBB2 Roll4Snare Drum225SD LdwSup Std pSnare Drum226SD LdwSup Std FRSnare Drum227SD LdwSup Std FRSnare Drum230SD LdwSup Std FRSnare Drum231SD LdwSup Std Gate fSnare Drum232SD LdwSup Std Gate fSnare Drum233SD LdwSup Std Gate fSnare Drum234SD LdwSup Std Gate fSnare Drum235SD LdwSup Std Room pSnare Drum236SD LdwSup Std Room fSnare Drum237 <td>201</td> <td>SD LdwBB1A OpRim1</td> <td>Snare Drum</td>	201	SD LdwBB1A OpRim1	Snare Drum
204SD LdwBB1A OpRim4Snare Drum205SD LdwBB1A Roll1Snare Drum206SD LdwBB1A Roll2Snare Drum207SD LdwBB1B Op1Snare Drum208SD LdwBB1B Op2Snare Drum209SD LdwBB1B Op3Snare Drum210SD LdwBB1B Op4Snare Drum211SD LdwBB1B Op4Snare Drum212SD LdwBB1B OpRim1Snare Drum213SD LdwBB1B OpRim2Snare Drum214SD LdwBB1B OpRim3Snare Drum215SD LdwBB1B OpRim4Snare Drum216SD LdwBB2 OpRim1Snare Drum217SD LdwBB2 Std1Snare Drum218SD LdwBB2 Std2Snare Drum220SD LdwBB2 Roll1Snare Drum221SD LdwBB2 Roll2Snare Drum222SD LdwBB2 Roll3Snare Drum223SD LdwBB2 Roll4Snare Drum224SD LdwBB2 Roll3Snare Drum225SD LdwSup Std pSnare Drum226SD LdwSup Std FSnare Drum227SD LdwSup Std FSnare Drum230SD LdwSup Std Atfilm pSnare Drum231SD LdwSup Std Gate fSnare Drum232SD LdwSup Std Gate fSnare Drum233SD LdwSup Std Gate fSnare Drum234SD LdwSup Std Gate fSnare Drum235SD LdwSup Std Room fSnare Drum236SD LdwSup Std Room fSnare Drum237SD LdwSup Std Room fSnare Drum <t< td=""><td>202</td><td>SD LdwBB1A OpRim2</td><td>Snare Drum</td></t<>	202	SD LdwBB1A OpRim2	Snare Drum
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206SD LdwBB1A Roll2Snare Drum207SD LdwBB1A Roll3Snare Drum208SD LdwBB1B Op1Snare Drum209SD LdwBB1B Op2Snare Drum210SD LdwBB1B Op3Snare Drum211SD LdwBB1B Op4Snare Drum212SD LdwBB1B OpRim1Snare Drum213SD LdwBB1B OpRim2Snare Drum214SD LdwBB1B OpRim3Snare Drum215SD LdwBB1B OpRim4Snare Drum216SD LdwBB2 OpRim1Snare Drum217SD LdwBB2 Std1Snare Drum218SD LdwBB2 Std2Snare Drum219SD LdwBB2 Roll2Snare Drum220SD LdwBB2 Roll3Snare Drum221SD LdwBB2 Roll4Snare Drum222SD LdwBB2 Roll4Snare Drum223SD LdwBB2 Roll4Snare Drum224SD LdwBB2 Roll4Snare Drum225SD LdwSup Std pSnare Drum226SD LdwSup Std fSnare Drum227SD LdwSup Std fSnare Drum230SD LdwSup Std FSnare Drum231SD LdwSup Std Gate pSnare Drum232SD LdwSup Std Gate fSnare Drum233SD LdwSup Std Gate fSnare Drum234SD LdwSup Std Gate fSnare Drum235SD LdwSup Std Gate fSnare Drum236SD LdwSup Std Room fSnare Drum237SD LdwSup Std Room fSnare Drum238SD LdwSup Std Room fSnare Drum2	204	SD LdwBB1A OpRim4	Snare Drum
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208SD LdwBB1B Op1Snare Drum209SD LdwBB1B Op2Snare Drum210SD LdwBB1B Op3Snare Drum211SD LdwBB1B Op4Snare Drum212SD LdwBB1B OpRim1Snare Drum213SD LdwBB1B OpRim3Snare Drum214SD LdwBB1B OpRim3Snare Drum215SD LdwBB1B OpRim4Snare Drum216SD LdwBB2 OpRim2Snare Drum217SD LdwBB2 Std1Snare Drum218SD LdwBB2 Std2Snare Drum220SD LdwBB2 Roll1Snare Drum221SD LdwBB2 Roll2Snare Drum222SD LdwBB2 Roll3Snare Drum223SD LdwBB2 Roll4Snare Drum224SD LdwBB2 Roll4Snare Drum225SD LdwSup Std pSnare Drum226SD LdwSup Std fSnare Drum227SD LdwSup Std FSnare Drum228SD LdwSup Std +Rim pSnare Drum230SD LdwSup Std Gate pSnare Drum231SD LdwSup Std Gate pSnare Drum232SD LdwSup Std Gate fSnare Drum233SD LdwSup Std Gate fSnare Drum234SD LdwSup Std Gate fSnare Drum235SD LdwSup Std Room fSnare Drum236SD LdwSup Std Room fSnare Drum237SD LdwSup Std Room fSnare Drum238SD LdwSup Std Room fSnare Drum239SD LdwSup Std Room fSnare Drum234SD LdwSup StR Gate fSnare Drum<	206	SD LdwBB1A Roll2	Snare Drum
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212SD LdwBB1B OpRim1Snare Drum213SD LdwBB1B OpRim2Snare Drum214SD LdwBB1B OpRim3Snare Drum215SD LdwBB1 OpRim4Snare Drum216SD LdwBB2 OpRim1Snare Drum217SD LdwBB2 OpRim2Snare Drum218SD LdwBB2 Std1Snare Drum219SD LdwBB2 Std2Snare Drum220SD LdwBB2 Roll1Snare Drum221SD LdwBB2 Roll2Snare Drum222SD LdwBB2 Roll3Snare Drum223SD LdwBB2 Roll3Snare Drum224SD LdwBB2 Roll4Snare Drum225SD LdwSup Std pSnare Drum226SD LdwSup Std fSnare Drum227SD LdwSup Std fSnare Drum228SD LdwSup Std +Rim pSnare Drum229SD LdwSup Std +Rim fSnare Drum230SD LdwSup Std Gate pSnare Drum231SD LdwSup Std Gate fSnare Drum233SD LdwSup Std Gate fSnare Drum234SD LdwSup Std Gate fSnare Drum235SD LdwSup Std Room pSnare Drum236SD LdwSup Std Room fSnare Drum237SD LdwSup Std Room fSnare Drum238SD LdwSup Std Room fSnare Drum239SD LdwSup StR Room fSnare Drum244SD LdwSup StR Room fSnare Drum245SD LdwSup StR Room fSnare Drum246SD LdwSup StR Room fSnare Drum247SD LdwSup StR Room f<	210	SD LdwBB1B Op3	Snare Drum
213SD LdwBB1B OpRim2Snare Drum214SD LdwBB1B OpRim3Snare Drum215SD LdwBB1B OpRim4Snare Drum216SD LdwBB2 OpRim1Snare Drum217SD LdwBB2 OpRim2Snare Drum218SD LdwBB2 Std1Snare Drum219SD LdwBB2 Std2Snare Drum220SD LdwBB2 Roll2Snare Drum221SD LdwBB2 Roll3Snare Drum223SD LdwBB2 Roll4Snare Drum224SD LdwBB2 Roll4Snare Drum225SD LdwBB2 Roll4Snare Drum226SD LdwSup Std pSnare Drum227SD LdwSup Std fSnare Drum228SD LdwSup Std fSnare Drum229SD LdwSup Std +Rim pSnare Drum230SD LdwSup Std Gate pSnare Drum231SD LdwSup Std Gate pSnare Drum232SD LdwSup Std Gate fSnare Drum233SD LdwSup Std Gate fSnare Drum234SD LdwSup Std Gate fSnare Drum235SD LdwSup Std Room pSnare Drum236SD LdwSup Std Room pSnare Drum237SD LdwSup Std Room fSnare Drum238SD LdwSup Std Room fSnare Drum239SD LdwSup Std Room fSnare Drum240SD LdwSup StR Room fSnare Drum241SD LdwSup StR Room fSnare Drum242SD LdwSup StR Room fSnare Drum243SD LdwSup StR Room fSnare Drum244SD LdwSup StR Roo	211	SD LdwBB1B Op4	Snare Drum
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215SD LdwBB1B OpRim4Snare Drum216SD LdwBB2 OpRim1Snare Drum217SD LdwBB2 Std1Snare Drum218SD LdwBB2 Std2Snare Drum219SD LdwBB2 Std2Snare Drum220SD LdwBB2 Roll1Snare Drum221SD LdwBB2 Roll2Snare Drum222SD LdwBB2 Roll3Snare Drum223SD LdwBB2 Roll4Snare Drum224SD LdwBB2 Roll4Snare Drum225SD LdwSup Std pSnare Drum226SD LdwSup Std fSnare Drum227SD LdwSup Std fSnare Drum228SD LdwSup Std +Rim pSnare Drum229SD LdwSup Std+Rim fSnare Drum230SD LdwSup Std 4 Eater pSnare Drum231SD LdwSup Std Gate pSnare Drum233SD LdwSup Std Gate fSnare Drum234SD LdwSup Std Gate fSnare Drum235SD LdwSup Std Room pSnare Drum236SD LdwSup Std Room pSnare Drum237SD LdwSup Std Room fSnare Drum238SD LdwSup Std Room fSnare Drum239SD LdwSup Std Room fSnare Drum241SD LdwSup Std Room fSnare Drum242SD LdwSup Std Room fSnare Drum243SD LdwSup Std Room fSnare Drum244SD LdwSup Std Room fSnare Drum245SD LdwSup Std Room fSnare Drum246SD LdwSup Std Room fSnare Drum247SD LdwSup S	213	SD LdwBB1B OpRim2	Snare Drum
216SD LdwBB2 OpRim1Snare Drum217SD LdwBB2 OpRim2Snare Drum218SD LdwBB2 Std1Snare Drum219SD LdwBB2 Std2Snare Drum220SD LdwBB2 Roll1Snare Drum221SD LdwBB2 Roll1Snare Drum222SD LdwBB2 Roll2Snare Drum223SD LdwBB2 Roll3Snare Drum224SD LdwBB2 Roll4Snare Drum225SD LdwBB2 Roll4Snare Drum226SD LdwSup Std pSnare Drum227SD LdwSup Std fSnare Drum228SD LdwSup Std +Rim pSnare Drum229SD LdwSup Std +Rim fSnare Drum230SD LdwSup Std Gate pSnare Drum231SD LdwSup Std Gate fSnare Drum232SD LdwSup Std Gate fSnare Drum233SD LdwSup Std Gate fSnare Drum234SD LdwSup Std Gate fSnare Drum235SD LdwSup Std Room pSnare Drum236SD LdwSup Std Room pSnare Drum237SD LdwSup Std Room fSnare Drum238SD LdwSup Std Room fSnare Drum240SD LdwSup Std Room fSnare Drum241SD LdwSup Std Room fSnare Drum242SD LdwSup Std Room fSnare Drum243SD LdwSup Std Room fSnare Drum244SD LdwSup Std Room fSnare Drum245SD LdwSup Std Room fSnare Drum246SD LdwSup Std Room fSnare Drum247SD LdwSu	214	SD LdwBB1B OpRim3	Snare Drum
217SD LdwBB2 OpRim2Snare Drum218SD LdwBB2 Std1Snare Drum219SD LdwBB2 Std2Snare Drum220SD LdwBB2 Std3Snare Drum221SD LdwBB2 Roll1Snare Drum222SD LdwBB2 Roll2Snare Drum223SD LdwBB2 Roll3Snare Drum224SD LdwBB2 Roll4Snare Drum225SD LdwSup Std pSnare Drum226SD LdwSup Std fSnare Drum227SD LdwSup Std +Rim pSnare Drum228SD LdwSup Std+Rim fSnare Drum229SD LdwSup Std+Rim fSnare Drum230SD LdwSup Std Gate pSnare Drum231SD LdwSup Std Gate fSnare Drum232SD LdwSup Std Gate fSnare Drum233SD LdwSup Std Gate fSnare Drum234SD LdwSup Std Roare pSnare Drum235SD LdwSup Std Room pSnare Drum236SD LdwSup Std Room pSnare Drum237SD LdwSup Std Room fSnare Drum238SD LdwSup Std Room fSnare Drum239SD LdwSup Std Room fSnare Drum240SD LdwSup Std Room fSnare Drum241SD LdwSup Std Room fSnare Drum243SD LdwSup Std Room fSnare Drum244SD LdwSup Std Room fSnare Drum245SD LdwSup Std Room fSnare Drum246SD LdwVintage Std fSnare Drum247SD LdwVintage Std fSnare Drum248SD	215	SD LdwBB1B OpRim4	Snare Drum
218SD LdwBB2 Std1Snare Drum219SD LdwBB2 Std2Snare Drum220SD LdwBB2 Std3Snare Drum221SD LdwBB2 Roll1Snare Drum222SD LdwBB2 Roll2Snare Drum223SD LdwBB2 Roll3Snare Drum224SD LdwBB2 Roll4Snare Drum225SD LdwSup Std pSnare Drum226SD LdwSup Std ffSnare Drum227SD LdwSup Std +Rim pSnare Drum228SD LdwSup Std+Rim fSnare Drum229SD LdwSup Std+Rim ffSnare Drum230SD LdwSup Std Gate pSnare Drum231SD LdwSup Std Gate ffSnare Drum233SD LdwSup Std Gate ffSnare Drum234SD LdwSup Std Gate ffSnare Drum235SD LdwSup Std Room pSnare Drum236SD LdwSup Std Room pSnare Drum237SD LdwSup Std Room pSnare Drum238SD LdwSup Std Room pSnare Drum239SD LdwSup Std Room ffSnare Drum240SD LdwSup Std Room ffSnare Drum241SD LdwSup Std Room ffSnare Drum242SD LdwSup Std Room ffSnare Drum243SD LdwSup Std Room ffSnare Drum244SD LdwSup Std Room ffSnare Drum245SD LdwVintage Std ffSnare Drum246SD LdwVintage Std ffSnare Drum247SD LdwVintage Std ffSnare Drum248SD LdwVintage Std ffSnare Drum <td< td=""><td>216</td><td>SD LdwBB2 OpRim1</td><td>Snare Drum</td></td<>	216	SD LdwBB2 OpRim1	Snare Drum
219SD LdwBB2 Std2Snare Drum220SD LdwBB2 Std3Snare Drum221SD LdwBB2 Roll1Snare Drum222SD LdwBB2 Roll2Snare Drum223SD LdwBB2 Roll3Snare Drum224SD LdwBB2 Roll4Snare Drum225SD LdwSup Std pSnare Drum226SD LdwSup Std fSnare Drum227SD LdwSup Std fSnare Drum228SD LdwSup Std+Rim pSnare Drum229SD LdwSup Std+Rim fSnare Drum230SD LdwSup Std Gate pSnare Drum231SD LdwSup Std Gate fSnare Drum233SD LdwSup Std Gate fSnare Drum234SD LdwSup Std Gate fSnare Drum235SD LdwSup Std Gate fSnare Drum236SD LdwSup Std Room pSnare Drum237SD LdwSup Std Room pSnare Drum238SD LdwSup Std Room pSnare Drum239SD LdwSup Std Room pSnare Drum240SD LdwSup Std Room fSnare Drum241SD LdwSup Std Room fSnare Drum242SD LdwSup Std Room fSnare Drum243SD LdwSup Std Room fSnare Drum244SD LdwSup Std Room fSnare Drum245SD LdwSup Std Room fSnare Drum246SD LdwSup Std Room fSnare Drum247SD LdwSup Std Room fSnare Drum248SD LdwVintage Std fSnare Drum244SD LdwVintage Std fSnare Drum245 <td< td=""><td>217</td><td>SD LdwBB2 OpRim2</td><td>Snare Drum</td></td<>	217	SD LdwBB2 OpRim2	Snare Drum
220SD LdwBB2 Std3Snare Drum221SD LdwBB2 Roll1Snare Drum222SD LdwBB2 Roll2Snare Drum223SD LdwBB2 Roll3Snare Drum224SD LdwBB2 Roll4Snare Drum225SD LdwSup Std pSnare Drum226SD LdwSup Std ffSnare Drum227SD LdwSup Std +Rim pSnare Drum228SD LdwSup Std+Rim ffSnare Drum229SD LdwSup Std+Rim ffSnare Drum230SD LdwSup Std Gate pSnare Drum231SD LdwSup Std Gate ffSnare Drum233SD LdwSup Std Gate ffSnare Drum234SD LdwSup Std Gate ffSnare Drum235SD LdwSup Std Roare ffSnare Drum236SD LdwSup Std Roare ffSnare Drum237SD LdwSup Std Room pSnare Drum238SD LdwSup Std Room ffSnare Drum239SD LdwSup Std Room ffSnare Drum240SD LdwSup Std Room ffSnare Drum241SD LdwSup Std Room ffSnare Drum242SD LdwSup Std Room ffSnare Drum243SD LdwSup Std Room ffSnare Drum244SD LdwVintage Std ffSnare Drum245SD LdwVintage Std ffSnare Drum246SD LdwVintage Std ffSnare Drum247SD LdwVintage Std ffSnare Drum248SD LdwVintage Std ffSnare Drum249SD LdwVintage Std ffSnare Drum241SD LdwVintage Std ffSnare Drum	218	SD LdwBB2 Std1	Snare Drum
221SD LdwBB2 Roll1Snare Drum222SD LdwBB2 Roll2Snare Drum223SD LdwBB2 Roll3Snare Drum224SD LdwBB2 Roll4Snare Drum225SD LdwSup Std pSnare Drum226SD LdwSup Std ffSnare Drum227SD LdwSup Std +Rim pSnare Drum228SD LdwSup Std+Rim ffSnare Drum229SD LdwSup Std +Rim ffSnare Drum230SD LdwSup Std Gate pSnare Drum231SD LdwSup Std Gate ffSnare Drum233SD LdwSup Std Gate ffSnare Drum234SD LdwSup Std Gate ffSnare Drum235SD LdwSup Std Roate pSnare Drum236SD LdwSup Std Roate ffSnare Drum237SD LdwSup Std Room pSnare Drum238SD LdwSup Std Room pSnare Drum239SD LdwSup Std Room ffSnare Drum240SD LdwSup Std Room ffSnare Drum241SD LdwSup Std Room ffSnare Drum242SD LdwSup Std Room ffSnare Drum243SD LdwSup Std Room ffSnare Drum244SD LdwSup Std Room ffSnare Drum245SD LdwVintage Std ffSnare Drum246SD LdwVintage Std ffSnare Drum247SD LdwVintage Std ffSnare Drum248SD LdwVintage Std ffSnare Drum249SD LdwVintage Std ffSnare Drum249SD LdwVintage SteffSnare Drum241SD LdwVintage SteffSnare	219	SD LdwBB2 Std2	Snare Drum
222SD LdwBB2 Roll2Snare Drum223SD LdwBB2 Roll3Snare Drum224SD LdwBB2 Roll4Snare Drum225SD LdwSup Std pSnare Drum226SD LdwSup Std ffSnare Drum227SD LdwSup Std +Rim pSnare Drum228SD LdwSup Std+Rim pSnare Drum229SD LdwSup Std+Rim ffSnare Drum230SD LdwSup Std Gate pSnare Drum231SD LdwSup Std Gate ffSnare Drum232SD LdwSup Std Gate ffSnare Drum233SD LdwSup Std Gate ffSnare Drum234SD LdwSup Std Gate ffSnare Drum235SD LdwSup Std Roate ffSnare Drum236SD LdwSup Std Room pSnare Drum237SD LdwSup Std Room pSnare Drum238SD LdwSup Std Room ffSnare Drum239SD LdwSup Std Room ffSnare Drum240SD LdwSup Std Room ffSnare Drum241SD LdwSup Std Room ffSnare Drum242SD LdwSup Std Room ffSnare Drum243SD LdwSup Std Room ffSnare Drum244SD LdwSup Std Room ffSnare Drum245SD LdwVintage Std ffSnare Drum246SD LdwVintage Std ffSnare Drum247SD LdwVintage Std ffSnare Drum248SD LdwVintage SteffSnare Drum249SD LdwVintage SteffSnare Drum249SD LdwVintage SteffSnare Drum241SD LdwVintage SteffSnar	220	SD LdwBB2 Std3	Snare Drum
223SD LdwBB2 Roll3Snare Drum224SD LdwB2 Roll4Snare Drum225SD LdwSup Std pSnare Drum226SD LdwSup Std ffSnare Drum227SD LdwSup Std ffSnare Drum228SD LdwSup Std+Rim pSnare Drum229SD LdwSup Std+Rim ffSnare Drum230SD LdwSup Std Gate pSnare Drum231SD LdwSup Std Gate ffSnare Drum233SD LdwSup Std Gate ffSnare Drum234SD LdwSup Std Gate ffSnare Drum235SD LdwSup Std Gate ffSnare Drum236SD LdwSup Std Gate ffSnare Drum237SD LdwSup Std Roate ffSnare Drum238SD LdwSup Std Room pSnare Drum239SD LdwSup Std Room ffSnare Drum240SD LdwSup Std Room ffSnare Drum241SD LdwSup Std Room ffSnare Drum242SD LdwSup Std Room ffSnare Drum243SD LdwSup Std Room ffSnare Drum244SD LdwSup Std Room ffSnare Drum245SD LdwSup Std Room ffSnare Drum246SD LdwVintage Std ffSnare Drum247SD LdwVintage Std ffSnare Drum248SD LdwVintage Std ffSnare Drum249SD LdwVintage SteffSnare Drum249SD LdwVintage SteffSnare Drum241SD LdwVintage SteffSnare Drum245SD LdwVintage SteffSnare Drum246SD LdwVintage SteffSnar	221	SD LdwBB2 Roll1	Snare Drum
224SD LdwBB2 Roll4Snare Drum225SD LdwSup Std pSnare Drum226SD LdwSup Std ffSnare Drum227SD LdwSup Std ffSnare Drum228SD LdwSup Std+Rim pSnare Drum229SD LdwSup Std+Rim ffSnare Drum230SD LdwSup Std+Rim ffSnare Drum231SD LdwSup Std Gate pSnare Drum232SD LdwSup Std Gate ffSnare Drum233SD LdwSup Std Gate ffSnare Drum234SD LdwSup Std Gate ffSnare Drum235SD LdwSup Std Roate ffSnare Drum236SD LdwSup Std Room pSnare Drum237SD LdwSup Std Room pSnare Drum238SD LdwSup Std Room ffSnare Drum239SD LdwSup Std Room ffSnare Drum240SD LdwSup Std Room ffSnare Drum241SD LdwSup Std Room ffSnare Drum242SD LdwSup Std Room ffSnare Drum243SD LdwSup Std Room ffSnare Drum244SD LdwSup Std Room ffSnare Drum245SD LdwVintage Std ffSnare Drum246SD LdwVintage Std ffSnare Drum247SD LdwVintage Std ffSnare Drum248SD LdwVintage Std ffSnare Drum249SD LdwVintage Std ffSnare Drum249SD LdwVintage SteffSnare Drum241SD LdwVintage SteffSnare Drum242SD LdwVintage SteffSnare Drum243SD LdwVintage Steff <td< td=""><td>222</td><td>SD LdwBB2 Roll2</td><td>Snare Drum</td></td<>	222	SD LdwBB2 Roll2	Snare Drum
225SD LdwSup Std pSnare Drum226SD LdwSup Std mfSnare Drum227SD LdwSup Std fSnare Drum228SD LdwSup Std+Rim pSnare Drum229SD LdwSup Std+Rim ffSnare Drum230SD LdwSup Std+Rim fSnare Drum231SD LdwSup Std Gate pSnare Drum232SD LdwSup Std Gate ffSnare Drum233SD LdwSup Std Gate fSnare Drum234SD LdwSup Std Gate ffSnare Drum235SD LdwSup Std Roate ffSnare Drum236SD LdwSup Std Room pSnare Drum237SD LdwSup Std Room pSnare Drum238SD LdwSup Std Room ffSnare Drum239SD LdwSup Std Room ffSnare Drum240SD LdwSup Std Room ffSnare Drum241SD LdwSup StR Room ffSnare Drum242SD LdwSup StR Room ffSnare Drum243SD LdwSup Std Room ffSnare Drum244SD LdwSup Std Room ffSnare Drum245SD LdwVintage Std ffSnare Drum246SD LdwVintage Std ffSnare Drum247SD LdwVintage Std ffSnare Drum248SD LdwVintage Std ffSnare Drum249SD LdwVintage St+Rim ffSnare Drum241SD LdwVintage St+Rim ffSnare Drum242SD LdwVintage St+Rim ffSnare Drum243SD LdwVintage Std ffSnare Drum244SD LdwVintage StHRim ffSnare Drum245SD LdwVint	223	SD LdwBB2 Roll3	Snare Drum
226SD LdwSup Std mfSnare Drum227SD LdwSup Std fSnare Drum228SD LdwSup Std+Rim pSnare Drum229SD LdwSup Std+Rim mfSnare Drum230SD LdwSup Std+Rim fSnare Drum231SD LdwSup Std Gate pSnare Drum232SD LdwSup Std Gate fSnare Drum233SD LdwSup Std Gate fSnare Drum234SD LdwSup Std Gate fSnare Drum235SD LdwSup Std Gate fSnare Drum236SD LdwSup Std Roate fSnare Drum237SD LdwSup Std Room pSnare Drum238SD LdwSup Std Room fSnare Drum239SD LdwSup Std Room fSnare Drum240SD LdwSup Std Room fSnare Drum241SD LdwSup Std Room fSnare Drum242SD LdwSup Std Room fSnare Drum243SD LdwSup Std Room fSnare Drum244SD LdwSup Std Room fSnare Drum245SD LdwSup Std Room fSnare Drum246SD LdwVintage Std fSnare Drum247SD LdwVintage Std fSnare Drum248SD LdwVintage Std ffSnare Drum249SD LdwVintage Stel fSnare Drum249SD LdwVintage Stel ffSnare Drum241SD LdwVintage Stel ffSnare Drum242SD LdwVintage Stel ffSnare Drum243SD LdwVintage Stel ffSnare Drum244SD LdwVintage Stel ffSnare Drum245SD LdwVintage Stel ff <td>224</td> <td>SD LdwBB2 Roll4</td> <td>Snare Drum</td>	224	SD LdwBB2 Roll4	Snare Drum
227SD LdwSup Std fSnare Drum228SD LdwSup Std+Rim pSnare Drum229SD LdwSup Std+Rim ffSnare Drum230SD LdwSup Std+Rim ffSnare Drum231SD LdwSup Std Gate pSnare Drum232SD LdwSup Std Gate ffSnare Drum233SD LdwSup Std Gate ffSnare Drum234SD LdwSup Std Gate ffSnare Drum235SD LdwSup Std Gate ffSnare Drum236SD LdwSup Std Roate ffSnare Drum237SD LdwSup Std Room pSnare Drum238SD LdwSup Std Room ffSnare Drum239SD LdwSup Std Room ffSnare Drum240SD LdwSup Std Room ffSnare Drum241SD LdwSup Std Room ffSnare Drum242SD LdwSup Std Room ffSnare Drum243SD LdwSup Std Room ffSnare Drum244SD LdwSup Std Room ffSnare Drum245SD LdwVintage Std ffSnare Drum246SD LdwVintage Std ffSnare Drum247SD LdwVintage Std ffSnare Drum248SD LdwVintage Std ffSnare Drum249SD LdwVintage Stel ffSnare Drum249SD LdwVintage Stel ffSnare Drum249SD LdwVintage Stel ffSnare Drum241SD LdwVintage Stel ffSnare Drum242SD LdwVintage Stel ffSnare Drum243SD LdwVintage Stel ffSnare Drum244SD LdwVintage Stel ffSnare Drum245SD	225	SD LdwSup Std p	Snare Drum
228SD LdwSup Std+Rim pSnare Drum229SD LdwSup Std+Rim ffSnare Drum230SD LdwSup Std+Rim fSnare Drum231SD LdwSup Std Gate pSnare Drum232SD LdwSup Std Gate mfSnare Drum233SD LdwSup Std Gate fSnare Drum234SD LdwSup Std Gate fSnare Drum235SD LdwSup Std Gate fSnare Drum236SD LdwSup S+R Gate pSnare Drum237SD LdwSup Std Room pSnare Drum238SD LdwSup Std Room pfSnare Drum239SD LdwSup Std Room ffSnare Drum240SD LdwSup S+R Room ffSnare Drum241SD LdwSup S+R Room ffSnare Drum242SD LdwSup S+R Room ffSnare Drum243SD LdwVintage Std pSnare Drum244SD LdwVintage Std ffSnare Drum245SD LdwVintage Std ffSnare Drum246SD LdwVintage Std ffSnare Drum247SD LdwVintage Std ffSnare Drum248SD LdwVintage S+Rim pfSnare Drum249SD LdwVintage S+Rim ffSnare Drum249SD LdwVintage S+Rim ffSnare Drum241SD LdwVintage S+Rim ffSnare Drum243SD LdwVintage S+Rim ffSnare Drum244SD LdwVintage S+Rim ffSnare Drum245SD LdwVintage S+Rim ffSnare Drum246SD LdwVintage S+Rim ffSnare Drum247SD LdwVintage S+Rim ffSnare Drum248	226	SD LdwSup Std mf	Snare Drum
229SD LdwSup Std+Rim mfSnare Drum230SD LdwSup Std+Rim fSnare Drum231SD LdwSup Std Gate pSnare Drum232SD LdwSup Std Gate mfSnare Drum233SD LdwSup Std Gate fSnare Drum234SD LdwSup Std Gate fSnare Drum235SD LdwSup S+R Gate pSnare Drum236SD LdwSup S+R Gate fSnare Drum237SD LdwSup Std Room pSnare Drum238SD LdwSup Std Room fSnare Drum239SD LdwSup Std Room fSnare Drum240SD LdwSup S+R Room pSnare Drum241SD LdwSup S+R Room fSnare Drum242SD LdwSup S+R Room fSnare Drum243SD LdwSup Std Room fSnare Drum244SD LdwSup S+R Room fSnare Drum245SD LdwVintage Std fSnare Drum246SD LdwVintage Std fSnare Drum247SD LdwVintage S+Rim pSnare Drum248SD LdwVintage S+Rim fSnare Drum249SD LdwVintage S+Rim fSnare Drum249SD LdwVintage S+Rim fSnare Drum250SD Ldw Roll pSnare Drum251SD Ldw Roll mfSnare Drum	227	SD LdwSup Std f	Snare Drum
230SD LdwSup Std+Rim fSnare Drum231SD LdwSup Std Gate pSnare Drum232SD LdwSup Std Gate mfSnare Drum233SD LdwSup Std Gate fSnare Drum234SD LdwSup Std Gate fSnare Drum235SD LdwSup S+R Gate pSnare Drum236SD LdwSup S+R Gate fSnare Drum237SD LdwSup Std Room pSnare Drum238SD LdwSup Std Room fSnare Drum239SD LdwSup Std Room fSnare Drum240SD LdwSup Std Room fSnare Drum241SD LdwSup S+R Room fSnare Drum242SD LdwSup S+R Room fSnare Drum243SD LdwSup S+R Room fSnare Drum244SD LdwVintage Std pSnare Drum245SD LdwVintage Std fSnare Drum246SD LdwVintage Std ffSnare Drum247SD LdwVintage Std ffSnare Drum248SD LdwVintage S+Rim pSnare Drum249SD LdwVintage S+Rim ffSnare Drum249SD LdwVintage S+Rim ffSnare Drum249SD LdwVintage S+Rim ffSnare Drum250SD Ldw Roll pSnare Drum251SD Ldw Roll mfSnare Drum	228	SD LdwSup Std+Rim p	Snare Drum
231SD LdwSup Std Gate pSnare Drum232SD LdwSup Std Gate mfSnare Drum233SD LdwSup Std Gate fSnare Drum234SD LdwSup S+R Gate pSnare Drum235SD LdwSup S+R Gate mfSnare Drum236SD LdwSup S+R Gate fSnare Drum237SD LdwSup Std Room pSnare Drum238SD LdwSup Std Room mfSnare Drum239SD LdwSup Std Room fSnare Drum240SD LdwSup Std Room fSnare Drum241SD LdwSup S+R Room mfSnare Drum242SD LdwSup S+R Room fSnare Drum243SD LdwSup S+R Room fSnare Drum244SD LdwVintage Std pSnare Drum245SD LdwVintage Std fSnare Drum246SD LdwVintage Std ffSnare Drum247SD LdwVintage Std ffSnare Drum248SD LdwVintage S+Rim pSnare Drum249SD LdwVintage S+Rim ffSnare Drum241SD LdwVintage S+Rim ffSnare Drum245SD LdwVintage Std ffSnare Drum246SD LdwVintage S+Rim pSnare Drum247SD LdwVintage S+Rim ffSnare Drum248SD LdwVintage S+Rim ffSnare Drum249SD LdwRoll pSnare Drum250SD Ldw Roll mfSnare Drum251SD Ldw Roll mfSnare Drum	229	SD LdwSup Std+Rim mf	Snare Drum
232SD LdwSup Std Gate mfSnare Drum233SD LdwSup Std Gate fSnare Drum234SD LdwSup S+R Gate pSnare Drum235SD LdwSup S+R Gate mfSnare Drum236SD LdwSup S+R Gate fSnare Drum237SD LdwSup Std Room pSnare Drum238SD LdwSup Std Room mfSnare Drum239SD LdwSup Std Room fSnare Drum240SD LdwSup Std Room fSnare Drum241SD LdwSup S+R Room mfSnare Drum242SD LdwSup S+R Room fSnare Drum243SD LdwSup S+R Room fSnare Drum244SD LdwSup S+R Room fSnare Drum245SD LdwVintage Std mfSnare Drum246SD LdwVintage Std fSnare Drum247SD LdwVintage Std ffSnare Drum248SD LdwVintage S+Rim pSnare Drum249SD LdwVintage S+Rim ffSnare Drum249SD LdwVintage S+Rim ffSnare Drum250SD Ldw Roll pSnare Drum251SD Ldw Roll mfSnare Drum	230	SD LdwSup Std+Rim f	Snare Drum
233SD LdwSup Std Gate fSnare Drum234SD LdwSup S+R Gate pSnare Drum235SD LdwSup S+R Gate mfSnare Drum236SD LdwSup S+R Gate fSnare Drum237SD LdwSup Std Room pSnare Drum238SD LdwSup Std Room fSnare Drum239SD LdwSup Std Room fSnare Drum240SD LdwSup Std Room fSnare Drum241SD LdwSup S+R Room fSnare Drum242SD LdwSup S+R Room fSnare Drum243SD LdwSup S+R Room fSnare Drum244SD LdwVintage Std pSnare Drum245SD LdwVintage Std ffSnare Drum246SD LdwVintage Std ffSnare Drum247SD LdwVintage Std ffSnare Drum248SD LdwVintage S+Rim pSnare Drum249SD LdwVintage S+Rim ffSnare Drum249SD LdwVintage S+Rim ffSnare Drum250SD Ldw Roll pSnare Drum251SD Ldw Roll mfSnare Drum	231	SD LdwSup Std Gate p	Snare Drum
234SD LdwSup S+R Gate pSnare Drum235SD LdwSup S+R Gate mfSnare Drum236SD LdwSup S+R Gate fSnare Drum237SD LdwSup Std Room pSnare Drum238SD LdwSup Std Room mfSnare Drum239SD LdwSup Std Room fSnare Drum240SD LdwSup Std Room fSnare Drum241SD LdwSup S+R Room mfSnare Drum242SD LdwSup S+R Room fSnare Drum243SD LdwSup S+R Room fSnare Drum244SD LdwVintage Std pSnare Drum245SD LdwVintage Std fSnare Drum246SD LdwVintage Std fSnare Drum247SD LdwVintage Std ffSnare Drum248SD LdwVintage S+Rim pSnare Drum249SD LdwVintage S+Rim ffSnare Drum249SD LdwVintage S+Rim ffSnare Drum250SD Ldw Roll pSnare Drum251SD Ldw Roll mfSnare Drum	232	SD LdwSup Std Gate mf	Snare Drum
235SD LdwSup S+R Gate mfSnare Drum236SD LdwSup S+R Gate fSnare Drum237SD LdwSup Std Room pSnare Drum238SD LdwSup Std Room mfSnare Drum239SD LdwSup Std Room fSnare Drum240SD LdwSup Std Room fSnare Drum241SD LdwSup S+R Room mfSnare Drum242SD LdwSup S+R Room fSnare Drum243SD LdwSup S+R Room fSnare Drum244SD LdwSup S+R Room fSnare Drum245SD LdwVintage Std mfSnare Drum246SD LdwVintage Std fSnare Drum247SD LdwVintage Std ffSnare Drum248SD LdwVintage S+Rim pSnare Drum249SD LdwVintage S+Rim ffSnare Drum249SD LdwVintage S+Rim ffSnare Drum241SD LdwVintage S+Rim ffSnare Drum242SD LdwVintage S+Rim ffSnare Drum	233	SD LdwSup Std Gate f	Snare Drum
236SD LdwSup S+R Gate fSnare Drum237SD LdwSup Std Room pSnare Drum238SD LdwSup Std Room fSnare Drum239SD LdwSup Std Room fSnare Drum240SD LdwSup Std Room pSnare Drum241SD LdwSup S+R Room pSnare Drum242SD LdwSup S+R Room fSnare Drum243SD LdwSup S+R Room fSnare Drum244SD LdwSup S+R Room fSnare Drum245SD LdwVintage Std mfSnare Drum246SD LdwVintage Std fSnare Drum247SD LdwVintage Std ffSnare Drum248SD LdwVintage S+Rim pSnare Drum249SD LdwVintage S+Rim ffSnare Drum250SD LdwVintage S+Rim ffSnare Drum251SD Ldw Roll pSnare Drum	234	SD LdwSup S+R Gate p	Snare Drum
237SD LdwSup Std Room pSnare Drum238SD LdwSup Std Room mfSnare Drum239SD LdwSup Std Room fSnare Drum240SD LdwSup Std Room pSnare Drum241SD LdwSup S+R Room mfSnare Drum242SD LdwSup S+R Room fSnare Drum243SD LdwSup S+R Room fSnare Drum244SD LdwVintage Std pSnare Drum245SD LdwVintage Std fSnare Drum246SD LdwVintage Std fSnare Drum247SD LdwVintage Std ffSnare Drum248SD LdwVintage S+Rim pSnare Drum249SD LdwVintage S+Rim ffSnare Drum249SD LdwVintage S+Rim ffSnare Drum250SD Ldw Roll pSnare Drum251SD Ldw Roll mfSnare Drum	235	SD LdwSup S+R Gate mf	Snare Drum
238SDLdwSup Std Room mfSnare Drum239SD LdwSup Std Room fSnare Drum240SD LdwSup S+R Room pSnare Drum241SD LdwSup S+R Room mfSnare Drum242SD LdwSup S+R Room fSnare Drum243SD LdwSup S+R Room fSnare Drum244SD LdwVintage Std pSnare Drum245SD LdwVintage Std fSnare Drum246SD LdwVintage Std ffSnare Drum247SD LdwVintage S+Rim pSnare Drum248SD LdwVintage S+Rim ffSnare Drum249SD LdwVintage S+Rim ffSnare Drum249SD LdwVintage S+Rim ffSnare Drum250SD Ldw Roll pSnare Drum251SD Ldw Roll mfSnare Drum	236	SD LdwSup S+R Gate f	Snare Drum
239SD LdwSup Std Room fSnare Drum240SD LdwSup S+R Room pSnare Drum241SD LdwSup S+R Room ffSnare Drum242SD LdwSup S+R Room ffSnare Drum243SD LdwVintage Std pSnare Drum244SD LdwVintage Std mfSnare Drum245SD LdwVintage Std ffSnare Drum246SD LdwVintage Std ffSnare Drum247SD LdwVintage Std ffSnare Drum248SD LdwVintage S+Rim pSnare Drum249SD LdwVintage S+Rim ffSnare Drum249SD LdwVintage S+Rim ffSnare Drum250SD Ldw Roll pSnare Drum251SD Ldw Roll mfSnare Drum	237	SD LdwSup Std Room p	Snare Drum
240SD LdwSup S+R Room pSnare Drum241SD LdwSup S+R Room mfSnare Drum242SD LdwSup S+R Room fSnare Drum243SD LdwVintage Std pSnare Drum244SD LdwVintage Std mfSnare Drum245SD LdwVintage Std fSnare Drum246SD LdwVintage Std ffSnare Drum247SD LdwVintage Std ffSnare Drum248SD LdwVintage S+Rim pSnare Drum249SD LdwVintage S+Rim ffSnare Drum249SD LdwVintage S+Rim ffSnare Drum250SD LdwRoll pSnare Drum251SD Ldw Roll mfSnare Drum	238	SD LdwSup Std Room mf	Snare Drum
241SD LdwSup S+R Room mfSnare Drum242SD LdwSup S+R Room fSnare Drum243SD LdwVintage Std pSnare Drum244SD LdwVintage Std mfSnare Drum245SD LdwVintage Std fSnare Drum246SD LdwVintage Std ffSnare Drum247SD LdwVintage S+Rim pSnare Drum248SD LdwVintage S+Rim mfSnare Drum249SD LdwVintage S+Rim ffSnare Drum249SD LdwVintage S+Rim ffSnare Drum250SD Ldw Roll pSnare Drum251SD Ldw Roll mfSnare Drum	239	SD LdwSup Std Room f	Snare Drum
242SD LdwSup S+R Room fSnare Drum243SD LdwVintage Std pSnare Drum244SD LdwVintage Std mfSnare Drum245SD LdwVintage Std fSnare Drum246SD LdwVintage Std ffSnare Drum247SD LdwVintage Std ffSnare Drum248SD LdwVintage S+Rim pSnare Drum249SD LdwVintage S+Rim ffSnare Drum249SD LdwVintage S+Rim ffSnare Drum250SD LdwRoll pSnare Drum251SD Ldw Roll mfSnare Drum	240	SD LdwSup S+R Room p	Snare Drum
243SD LdwVintage Std pSnare Drum244SD LdwVintage Std mfSnare Drum245SD LdwVintage Std fSnare Drum246SD LdwVintage Std ffSnare Drum247SD LdwVintage S+Rim pSnare Drum248SD LdwVintage S+Rim mfSnare Drum249SD LdwVintage S+Rim ffSnare Drum249SD LdwVintage S+Rim ffSnare Drum250SD Ldw Roll pSnare Drum251SD Ldw Roll mfSnare Drum	241	SD LdwSup S+R Room mf	Snare Drum
244SD LdwVintage Std mfSnare Drum245SD LdwVintage Std fSnare Drum246SD LdwVintage Std ffSnare Drum247SD LdwVintage S+Rim pSnare Drum248SD LdwVintage S+Rim mfSnare Drum249SD LdwVintage S+Rim ffSnare Drum250SD Ldw Roll pSnare Drum251SD Ldw Roll mfSnare Drum	242	SD LdwSup S+R Room f	Snare Drum
245     SD LdwVintage Std f     Snare Drum       246     SD LdwVintage Std ff     Snare Drum       247     SD LdwVintage S+Rim p     Snare Drum       248     SD LdwVintage S+Rim mf     Snare Drum       249     SD LdwVintage S+Rim f     Snare Drum       250     SD LdwVintage S+Rim f     Snare Drum       251     SD Ldw Roll p     Snare Drum	243	SD LdwVintage Std p	Snare Drum
246SD LdwVintage Std ffSnare Drum247SD LdwVintage S+Rim pSnare Drum248SD LdwVintage S+Rim mfSnare Drum249SD LdwVintage S+Rim fSnare Drum250SD Ldw Roll pSnare Drum251SD Ldw Roll mfSnare Drum	244	SD LdwVintage Std mf	Snare Drum
247SD LdwVintage S+Rim pSnare Drum248SD LdwVintage S+Rim mfSnare Drum249SD LdwVintage S+Rim fSnare Drum250SD Ldw Roll pSnare Drum251SD Ldw Roll mfSnare Drum	245	SD LdwVintage Std f	Snare Drum
248SD LdwVintage S+Rim mfSnare Drum249SD LdwVintage S+Rim fSnare Drum250SD Ldw Roll pSnare Drum251SD Ldw Roll mfSnare Drum	246	SD LdwVintage Std ff	Snare Drum
249SD LdwVintage S+Rim fSnare Drum250SD Ldw Roll pSnare Drum251SD Ldw Roll mfSnare Drum	247	SD LdwVintage S+Rim p	Snare Drum
250SD Ldw Roll pSnare Drum251SD Ldw Roll mfSnare Drum	248	SD LdwVintage S+Rim mf	Snare Drum
251 SD Ldw Roll mf Snare Drum	249	SD LdwVintage S+Rim f	Snare Drum
	250	SD Ldw Roll p	Snare Drum
252 SD Ldw Roll f Snare Drum	251	SD Ldw Roll mf	Snare Drum
	252	SD Ldw Roll f	Snare Drum

#	Name	Family
253	SD LdwVint Room p	Snare Drum
254	SD LdwVint Room mf	Snare Drum
255	SD LdwVint Room f	Snare Drum
256	SD LdwVint Room ff	Snare Drum
257	SD LdwVint room S+R p	Snare Drum
258	SD LdwVint room S+R mf	Snare Drum
259	SD LdwVint room S+R f	Snare Drum
260	SD Ldw Roll room p	Snare Drum
261	SD Ldw Roll room mf	Snare Drum
262	SD Ldw Roll room f	Snare Drum
263	SD Spr Std p	Snare Drum
264	SD Spr Std mf	Snare Drum
265	SD Spr Std f	Snare Drum
266	SD Spr StdRim p	Snare Drum
267	SD Spr StdRim mf	Snare Drum
268	SD Spr StdRim f	Snare Drum
269	SD Spr Open p	Snare Drum
270	SD Spr Open mf	Snare Drum
271	SD Spr Open f	Snare Drum
272	SD Spr Open ff	Snare Drum
273	SD Spr OpRim p	Snare Drum
274	SD Spr OpRim mf	Snare Drum
275	SD Spr OpRim f	Snare Drum
276	SD Spr OpRim ff	Snare Drum
277	SD Spr Roll p	Snare Drum
278	SD Spr Roll mf	Snare Drum
279	SD P.E. Std p	Snare Drum
280	SD P.E. Std mf	Snare Drum
281	SD P.E. Std f	Snare Drum
282	SD P.E. Std+Rim p	Snare Drum
283	SD P.E. Std+Rim mf	Snare Drum
284	SD P.E. Std+Rim f	Snare Drum
285	SD P.E. Open p	Snare Drum
286	SD P.E. Open mf	Snare Drum
287	SD P.E. Open f	Snare Drum
288	SD P.E. OpRim mf	Snare Drum
289	SD P.E. OpRim f	Snare Drum
290	SD P.E. Roll mf	Snare Drum
291	SD P.E. Roll f	Snare Drum
292	SD Natural p	Snare Drum
293	SD Natural mf	Snare Drum
294	SD Natural f	Snare Drum
295	SD Natural Rim p	Snare Drum
296	SD Natural Rim mf	Snare Drum
297	SD Natural Rim f	Snare Drum
298	SD Dry center1	Snare Drum
299	SD Dry center2	Snare Drum
300	SD Dry center3	Snare Drum
301	SD Dry Rim1	Snare Drum
302	SD Dry Rim2	Snare Drum
303	SD Dry Rim3	Snare Drum
304	SD Dry Roll	Snare Drum
305	SD Pop1 p	Snare Drum

		-
#	Name	Family
306	SD Pop1 p GM	Snare Drum
307	SD Pop1 mf	Snare Drum
308	SD Pop1 mf GM	Snare Drum
309	SD Pop1 f	Snare Drum
310	SD Pop1 f GM	Snare Drum
311	SD Pop1 +Rim mf	Snare Drum
312	SD Pop1 +Rim mf GM	Snare Drum
313	SD Pop1 +Rim f	Snare Drum
314	SD Pop1 +Rim f GM	Snare Drum
315	SD Pop2 p	Snare Drum
316	SD Pop2 mf	Snare Drum
317	SD Pop2 f	Snare Drum
318	SD Pop2 ff	Snare Drum
319	SD Flam	Snare Drum
320	SD Black	Snare Drum
321	SD S Gate1	Snare Drum
322	SD S Gate1 GM	Snare Drum
323	SD S Gate2	Snare Drum
324	SD S Gate3	Snare Drum
325	SD Wood1 p	Snare Drum
326	SD Wood1 mf	Snare Drum
327	SD Wood1 f	Snare Drum
328	SD Wood2 pp	Snare Drum
329	SD Wood2 p	Snare Drum
330	SD Wood2 mf	Snare Drum
331	SD Wood2 f	Snare Drum
332	SD Piccolo1 pp	Snare Drum
333	SD Piccolo1 p	Snare Drum
334	SD Piccolo1 mf	Snare Drum
335	SD Piccolo1 f	Snare Drum
336	SD Piccolo2 pp	Snare Drum
337	SD Piccolo2 p	Snare Drum
338	SD Piccolo2 mf	Snare Drum
339	SD Piccolo2 f	Snare Drum
340	SD Solid1 p	Snare Drum
341	SD Solid1 mf	Snare Drum
342	SD Solid1 f	Snare Drum
343	SD Solid2 p	Snare Drum
344	SD Solid2 mf	Snare Drum
345	SD Solid2 f	Snare Drum
346	SD Maple1 pp	Snare Drum
347	SD Maple1 p	Snare Drum
348	SD Maple1 mp	Snare Drum
349	SD Maple1 mf	Snare Drum
350	SD Maple1 f	Snare Drum
351	SD Maple1 ff	Snare Drum
352	SD Maple2 pp	Snare Drum
353	SD Maple2 p	Snare Drum
354	SD Maple2 mp	Snare Drum
355	SD Maple2 mf	Snare Drum
356	SD Maple2 f	Snare Drum
357	SD Maple2 ff	Snare Drum
358	SD Brass1 p	Snare Drum

#	Name	Family
359	SD Brass1 mf	Snare Drum
360	SD Brass1 f	Snare Drum
361	SD Brass2 p	Snare Drum
362	SD Brass2 mf	Snare Drum
363	SD Brass2 f	Snare Drum
364	SD Roll	Snare Drum
365	SD Ghost Roll	Snare Drum
366	SD Ghost p	Snare Drum
367	SD Ghost f	Snare Drum
368	SD Snr Ghost1 a	Snare Drum
369	SD Snr Ghost1 b	Snare Drum
370	SD Snr Ghost2 a	Snare Drum
371	SD Snr Ghost2 b	Snare Drum
372	SD Snr Ghost2 c	Snare Drum
373	SD Snr Signature p	Snare Drum
374	SD Snr Signature mf	Snare Drum
375	SD Snr Signature f	Snare Drum
376	SD Snr Signature Rim mf	Snare Drum
377	SD Snr Signature Rim f	Snare Drum
378	SD Snr Signature Rim1	Snare Drum
379	SD Snr Signature Rim2	Snare Drum
380	SD J center p	Snare Drum
381	SD J center f	Snare Drum
382	SD J edge1	Snare Drum
383	SD J edge2	Snare Drum
384	SD J edge3	Snare Drum
385	SD J edge4	Snare Drum
386	SD J std p	Snare Drum
387	SD J std mf	Snare Drum
388	SD J std f	Snare Drum
389	SD J std+rim p	Snare Drum
390	SD J std+rim mf	Snare Drum
391	SD J std+rim f	Snare Drum
392	SD Dry1	Snare Drum
393	SD Dry2	Snare Drum
394	SD Dry3	Snare Drum
394	SD Full Room	Snare Drum
395	SD Off Center	Snare Drum
	SD Jazz Ring	Snare Drum
397 398	SD Jazz Ring	Snare Drum
		Snare Drum
399 400	SD Paper SD Big Rock	Snare Drum
400	SD Yowie	Snare Drum
401	SD Trinity1	Snare Drum
403	SD Trinity2 SD Stereo Gate	Snare Drum Snare Drum
404 405	SD Stereo Gate	Snare Drum
405	SD Stereo Gate GM	Snare Drum
406 407	SD Processed GM	Snare Drum
	SD Processed GM	Snare Drum
408		
409	SD El. Funk1	Snare Drum
410	SD El. Funk2	Snare Drum
411	SD El. Funk3	Snare Drum

#	Name	Family
412	SD Dance01	Snare Drum
413	SD Dance02	Snare Drum
414	SD Dance03	Snare Drum
415	SD Dance04	Snare Drum
416	SD Dance05	Snare Drum
417	SD Dance06	Snare Drum
418	SD Dance07	Snare Drum
419	SD Dance08	Snare Drum
420	SD Dance09	Snare Drum
421	SD Dance10	Snare Drum
422	SD Dance11	Snare Drum
423	SD Dance12	Snare Drum
424	SD Dance13	Snare Drum
425	SD Dance14	Snare Drum
426	SD Dance15	Snare Drum
427	SD Dance16	Snare Drum
428	SD Dance17	Snare Drum
429	SD Dance18	Snare Drum
430	SD Dance19	Snare Drum
431	SD Dance20	Snare Drum
432	SD Dance21	Snare Drum
433	SD Dance22	Snare Drum
434	SD Dance23	Snare Drum
435	SD Dance23 GM	Snare Drum
436	SD Dance24	Snare Drum
437	SD House1	Snare Drum
438	SD House2	Snare Drum
439	SD House3	Snare Drum
440	SD House4	Snare Drum
441	SD BeatBox	Snare Drum
442	SD Small	Snare Drum
443	SD Rap	Snare Drum
444	SD Noise	Snare Drum
445	SD Reverse	Snare Drum
446	SD Hip1	Snare Drum
447	SD Hip2	Snare Drum
448	SD Hip3	Snare Drum
449	SD Hip4	Snare Drum
450	SD Hip5	Snare Drum
451	SD Hip6	Snare Drum
452	SD Ringy	Snare Drum
453	SD Tiny	Snare Drum
454	SD Vintage1	Snare Drum
455	SD Vintage2	Snare Drum
456	SD Vintage3	Snare Drum
457	SD Vintage4	Snare Drum
458	SD Vintage5	Snare Drum
459	SD Vintage6	Snare Drum
460	SD AmbiHop	Snare Drum
461	SD Brasser	Snare Drum
462	SD Chili	Snare Drum
463	SD Whopper	Snare Drum
464	SD Syn.1	Snare Drum

#	Name	Family
465	SD Syn.2	Snare Drum
466	SD Syn.3	Snare Drum
467	SD Syn.4	Snare Drum
468	SD Electro	Snare Drum
469	SD Orchestra	Snare Drum
470	SD Orch. Roll	Snare Drum
471	SD JBrush Loop1	Snare Drum
472	SD JBrush loop2	Snare Drum
473	SD JBrush mid	Snare Drum
474	SD JBrush open p	Snare Drum
475	SD JBrush open mf	Snare Drum
476	SD JBrush open f	Snare Drum
477	SD JBrush short	Snare Drum
478	SD JBrush shot p	Snare Drum
479	SD BrushHit1	Snare Drum
480	SD BrushHit2	Snare Drum
481	SD JazzBrush1	Snare Drum
482	SD JazzBrush2	Snare Drum
483	SD Brush1 (swirl1)	Snare Drum
484	SD Brush1 (swirl2)	Snare Drum
485	SD Brush1 (swirl3)	Snare Drum
486	SD Brush1 (swirl4)	Snare Drum
487	SD Brush1	Snare Drum
488	SD Brush2 (ghost1)	Snare Drum
489	SD Brush2 (ghost2)	Snare Drum
490	SD Brush2 (ghost3)	Snare Drum
491	SD Brush2	Snare Drum
492	SD Brush2 (fill) 4 shots	Snare Drum
493	SD Brush2 (fill) 3 shots	Snare Drum
494	SD Brush2 (fill) 2 shots	Snare Drum
495	SD Brush3 Hit	Snare Drum
496	SD Brush3 Tap1	Snare Drum
497	SD Brush3 Tap2	Snare Drum
498	SD Brush3 Swirl	Snare Drum
498		Snare Drum
	SD FX Large Hall1	Snare Drum
500	SD FX Large Hall2	
501	Rim1 m Studio	Snare Drum
502	Rim2 m Studio	Snare Drum
503	Rim3 m Studio	Snare Drum
504	Rim4 m Studio	Snare Drum
505	Rim1 st Studio	Snare Drum
506	Rim2 st Studio	Snare Drum
507	Rim3 st Studio	Snare Drum
508	Rim4 st Studio	Snare Drum
509	Rim1 m rev 80's	Snare Drum
510	Rim2 m rev 80's	Snare Drum
511	Rim3 m rev 80's	Snare Drum
512	Rim4 m rev 80's	Snare Drum
513	Rim1 st rev 80's	Snare Drum
514	Rim2 st rev 80's	Snare Drum
515	Rim3 st rev 80's	Snare Drum
516	Rim4 st rev 80's	Snare Drum
517	Rim1 m Gate 1	Snare Drum

#	Name	Family
518	Rim2 m Gate 1	Snare Drum
519	Rim3 m Gate 1	Snare Drum
520	Rim4 m Gate 1	Snare Drum
521	Rim1 st Gate 1	Snare Drum
522	Rim2 st Gate 1	Snare Drum
522	Rim3 st Gate 1	Snare Drum
524	Rim4 st Gate 1	Snare Drum
525	Rim1 m Gate 2	Snare Drum
526	Rim2 m Gate 2	Snare Drum
527	Rim3 m Gate 2	Snare Drum
528	Rim4 m Gate 2	Snare Drum
529	Rim1 st Gate 2	Snare Drum
529	Rim2 st Gate 2	Snare Drum
530	Rim3 st Gate 2	Snare Drum
532	Rim4 st Gate 2	Snare Drum
533	Rim1 m Hall	Snare Drum
534	Rim2 m Hall	Snare Drum
535	Rim3 m Hall	Snare Drum
536	Rim4 m Hall	Snare Drum
537 538	Rim1 st Hall	Snare Drum
	Rim2 st Hall	Snare Drum
539	Rim3 st Hall	Snare Drum
540	Rim4 st Hall	Snare Drum
541	Rim1 Amb	Snare Drum
542	Rim2 Amb	Snare Drum
543 544	Rim3 Amb	Snare Drum
	Rim4 Amb	Snare Drum
545	Rim Signature Hi	Snare Drum
546	Rim Signature Mid	Snare Drum
547 548	Rim Signature Low	Snare Drum Snare Drum
548 549	Rim Shot p Rim Shot f	Snare Drum
550	Rim House1	Snare Drum
550	Rim House2	Snare Drum
552		Snare Drum
552	Rim Synth	Share Drum
	Rim Synth Click	
554	Rim Synth Tamb	Snare Drum
555 556	Rim FX Large Hall1	Snare Drum
557	Rim FX Large Hall2 Sidestick mf	Snare Drum Snare Drum
558	Sidestick f	Snare Drum
558	Sidestick Dance	Share Drum
559		Snare Drum
561	SideStick Dry SideStick Amb	Snare Drum
562	DrumStick Hit	Snare Drum
563 564	DrumStick Hit GM	Snare Drum Tom
564 565	Tom D Hi p Tom D Hi mf	Tom
565 566	Tom D Hi m	Tom
566	Tom D Mid p	Tom
	Tom D Mid p	
568 569		Tom
	Tom D Mid f	Tom
570	Tom D Low p	Tom

#	Name	Family
571	Tom D Low mf	Tom
572	Tom D Low f	Tom
573	Tom D Floor p	Tom
574	Tom D Floor mf	Tom
575	Tom D Floor f	Tom
576	Tom P Hi	Tom
577	Tom P Mid	Tom
578	Tom P Low	Tom
579	Tom P Floor	Tom
580	Tom R Vintage Hi	Tom
581	Tom R Vintage Mid	Tom
582	Tom R Vintage Floor	Tom
583	Tom Vintage Room Hi	Tom
584	Tom Vintage Room Mid	Tom
585	Tom Vintage Room Low	Tom
586	Tom Jazz Hi center	Tom
587	Tom Jazz Hi center GM	Tom
588	Tom Jazz Hi edge	Tom
589	Tom Jazz Hi Rim	Tom
590	Tom Jazz Low center	Tom
591	Tom Jazz Low center GM	Tom
592	Tom Jazz Low edge	Tom
593	Tom Jazz Low Rim	Tom
594	Tom1 Open Hi p	Tom
595	Tom1 Open Hi p flam	Tom
596	Tom1 Open Hi f	Tom
597	Tom1 Open Hi f flam	Tom
598	Tom1 Open Mid p	Tom
599	Tom1 Open Mid p flam	Tom
600	Tom1 Open Mid f	Tom
601	Tom1 Open Mid f flam	Tom
602	Tom1 Open Low p	Tom
603	Tom1 Open Low p flam	Tom
604	Tom1 Open Low f	Tom
605	Tom1 Open Low f flam	Tom
606	Tom1 Open Floor p	Tom
607	Tom1 Open Floor p flam	Tom
608	Tom1 Open Floor f	Tom
609	Tom1 Open Floor f flam	Tom
610	Tom2 Hi p	Tom
611	Tom2 Hi f	Tom
612	Tom2 Mid p	Tom
613	Tom2 Mid f	Tom
614	Tom2 Low p	Tom
615	Tom2 Low f	Tom
616	Tom2 Floor p	Tom
617	Tom2 Floor f	Tom
		-
618	Tom3 Hi	Tom
619	Tom3 Floor	Tom
620 621	Tom4 Hi	Tom
n/1	Tom4 Low	Tom
622	Tom4 Floor	Tom

#	Name	Family
		-
624	Tom5 Low	Tom
625	Tom6 Vintage Hi p	Tom
626	Tom6 Vintage Hi mf	Tom
627	Tom6 Vintage Hi f	Tom
628	Tom6 Vintage Mid p	Tom
629	Tom6 Vintage Mid mf	Tom
630	Tom6 Vintage Mid f	Tom
631	Tom6 Vintage Low p	Tom
632	Tom6 Vintage Low mf	Tom
633	Tom6 Vintage Low f	Tom
634	Tom Processed	Tom
635	Tom Jazz Hi	Tom
636	Tom Jazz Floor	Tom
637	Tom Brush1 (sd open)	Tom
638	Tom Brush1 (sd close)	Tom
639	Tom Brush2 (sd open)	Tom
640	Tom Brush2 (sd close)	Tom –
641	Tom Brush3 Hi mf	Tom -
642	Tom Brush3 Hi f	Tom
643	Tom Brush3 Hi f GM	Tom
644	Tom Brush3 Mid mf	Tom
645	Tom Brush3 Mid f	Tom
646	Tom Brush3 Mid f GM	Tom
647	Tom Brush3 Low mf	Tom
648	Tom Brush3 Low f	Tom
649	Tom Brush3 Low f GM	Tom
650	Tom Brush4	Tom
651	Tom Brush5 Amb Hi	Tom
652	Tom Brush5 Amb Low	Tom
653	E.Tom FM	Tom
654	E.Tom Real	Tom
655	HiHat Soul cl p	Hi Hat
656	HiHat Soul cl mf	Hi Hat
657	HiHat Soul cl f	Hi Hat
658	HiHat Soul op p	Hi Hat
659	HiHat Soul op mf	Hi Hat
660	HiHat Soul op f	Hi Hat
661	HiHat Vintage cl p	Hi Hat
662	HiHat Vintage cl mf	Hi Hat
663	HiHat Vintage cl f	Hi Hat
664	HiHat Vintage op	Hi Hat
665	HiHat Jazz tip cl a	Hi Hat
666	HiHat Jazz tip cl b	Hi Hat
667	HiHat Jazz tip cl c	Hi Hat
668	HiHat Jazz tip op1 a	Hi Hat
669	HiHat Jazz tip op1 b	Hi Hat
670	HiHat Jazz tip op1 c	Hi Hat
671	HiHat Jazz tip op2 a	Hi Hat
672	HiHat Jazz tip op2 b	Hi Hat
673	HiHat Jazz tip op3	Hi Hat
674	HiHat Jazz cl a	Hi Hat
675	HiHat Jazz cl b	Hi Hat
676	HiHat Jazz cl c	Hi Hat

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#	Name	Family
677	HiHat Jazz op1 a	Hi Hat
678	HiHat Jazz op1 b	Hi Hat
679	HiHat Jazz op1 c	Hi Hat
680	HiHat Jazz op2 a	Hi Hat
681	HiHat Jazz op2 b	Hi Hat
682	HiHat Jazz op3	Hi Hat
683	HiHat Jazz op4	Hi Hat
684	HiHat Jazz ped cl	Hi Hat
685	HiHat Jazz ped op	Hi Hat
686	HH1 Closed pp	Hi Hat
687	HH1 Closed p	Hi Hat
688	HH1 Closed mf	Hi Hat
689	HH1 Closed f	Hi Hat
690	HH1 Foot mp	Hi Hat
691	HH1 Foot mf	Hi Hat
692	HH1 Open mp	Hi Hat
693	HH1 Open mf	Hi Hat
694	HH2 Closed pp	Hi Hat
695	HH2 Closed p	Hi Hat
696	HH2 Closed mp	Hi Hat
697	HH2 Closed mf	Hi Hat
698	HH2 Closed f	Hi Hat
699	HH2 Closed ff	Hi Hat
700	HH2 Foot p	Hi Hat
701	HH2 Foot f	Hi Hat
702	HH2 Open p	Hi Hat
703	HH2 Open f	Hi Hat
704	HH3 Closed1	Hi Hat
705	HH3 Closed2	Hi Hat
706	HH3 Foot	Hi Hat
707	HH3 Open1	Hi Hat
708	HH3 Open2	Hi Hat
709	HH3 Sizzle	Hi Hat
710	HH4 Closed1	Hi Hat
711	HH4 Closed2	Hi Hat
712	HH4 Foot	Hi Hat
713	HH4 Foot Open	Hi Hat
714	HH4 Open	Hi Hat
715	HH Old Close1	Hi Hat
716	HH Old Open1	Hi Hat
717	HH Old TiteClose	Hi Hat
718	HH Old Close2	Hi Hat
719	HH Old Open2	Hi Hat
720	HH House Open1	Hi Hat
721	HH House Open2	Hi Hat
722	HH Hip	Hi Hat
723	HH Alpo Close	Hi Hat
724	HH Dance1	Hi Hat
725	HH Dance2	Hi Hat
726	HH Syn. Closed	Hi Hat
727	HH Syn. Open	Hi Hat
728	HH Brush cl 1	Hi Hat
729	HH Brush cl 2	Hi Hat

#	Name	Family
730	HH Brush cl 3	Hi Hat
731	HH Brush op 1	Hi Hat
732	HH Brush op 2	Hi Hat
733	HH Brush op 3	Hi Hat
734	HH Brush op 4	Hi Hat
735	Ride Z 20 edge1	Cymbal
736	Ride Z 20 edge2	Cymbal
737	Ride Z 20 edge3	Cymbal
738	Ride Z 20 edge4	Cymbal
739	Ride Z 20 edge5	Cymbal
740	Ride Z 20 edge6	Cymbal
741	Ride Z 20 cup1	Cymbal
742	Ride Z 20 cup2	Cymbal
743	Ride Z 20 cup3	Cymbal
744	Ride Z Brush Edge 1	Cymbal
745	Ride Z Brush Edge 2	Cymbal
746	Ride Z Brush Cup	Cymbal
747	Crash Z 20	Cymbal
748	Ride 20' mp1	Cymbal
749	Ride 20' mp2	Cymbal
750	Ride 20' mf1	Cymbal
751	Ride 20' mf2	Cymbal
752	Ride Edge1	Cymbal
753	Ride Edge2	Cymbal
754	Ride Cup	Cymbal
755	Ride Jazz	Cymbal
756	Ride Brush1	Cymbal
757	Ride Brush2	Cymbal
758	Ride Brush3	Cymbal
759	Ride Rivet	Cymbal
760	Ride Rivet Amb	Cymbal
761	Crash 15'edge1	Cymbal
762	Crash 15'edge2	Cymbal
763	Crash 17'edge1	Cymbal
764	Crash 17'edge2	Cymbal
765	Crash 19'open1	Cymbal
766	Crash 19'open2	Cymbal
767	Crash 1	Cymbal
768	Crash 2	Cymbal
769	Crash Reverse	Cymbal
770	Crash Dance 99	Cymbal
771	Crash DDD-1 Splash 8'edge1	Cymbal Cymbal
773	Splash 8'edge2 Splash	Cymbal
774 775	China	Cymbal Cymbal
776	Orchestra Cymbal	Cymbal
777	Finger Snaps	Latin Perc.
778	Claps Natural 1a	Latin Perc.
779	Claps Natural 1b	Latin Perc.
780	Claps Natural 10	Latin Perc.
781	Claps Natural 1d	Latin Perc.
782	Claps Natural 2a	Latin Perc.
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#	Name	Family
783	Claps Natural 2b	Latin Perc.
784	Claps Natural 2c	Latin Perc.
785	Claps Natural 2d	Latin Perc.
786	Claps Natural 2e	Latin Perc.
787	Claps Natural 3a	Latin Perc.
788	Claps Natural 3b	Latin Perc.
789	Claps Natural 3c	Latin Perc.
790	Claps Natural 3d	Latin Perc.
791	Claps Natural 3e	Latin Perc.
792	Claps Natural 3f	Latin Perc.
793	Claps Natural 3g	Latin Perc.
794	Claps Natural 3h	Latin Perc.
795	Claps1	Latin Perc.
796	Claps2	Latin Perc.
797	Claps3	Latin Perc.
798	Claps4	Latin Perc.
799	Dance Claps1	Latin Perc.
800	Dance Claps2	Latin Perc.
801	Dance Claps3	Latin Perc.
802	Dance Claps4	Latin Perc.
803	Dance Claps5	Latin Perc.
804	Dance Claps6	Latin Perc.
805	Dance Conga1 Lo-Open	Latin Perc.
806	Dance Conga1 Hi-Open	Latin Perc.
807	Dance Tambourine	Ethnic Perc.
808	Electric Bongo	Latin Perc.
809	Syn. Bongo1	Latin Perc.
810	Syn. Bongo2	Latin Perc.
811	Syn. Castanet	Latin Perc.
812	Syn. Shaker	Ethnic Perc.
813	Syn. Noise	SFX
814	Syn. FX1	SFX
815	Syn. FX2	SFX
816	Syn. FX3	SFX
817	Syn. FX4	SFX
818	Syn. FX5	SFX
819	Syn. Perc. Ahh	SFX
820	Boom	SFX
821	Zap1	SFX
822	Zap2	SFX
823	Vinyl Hit	SFX
824	DJ Vinyl Sliced 01	SFX
825	DJ Vinyl Sliced 02	SFX
826	DJ Vinyl Sliced 03	SFX
827	DJ Vinyl Sliced 04	SFX
828	DJ Vinyl Sliced 05	SFX
829	DJ Vinyl Sliced 06	SFX
830	DJ Vinyl Sliced 07	SFX
831	DJ Vinyl Sliced 08	SFX
832	DJ Vinyl Sliced 09	SFX
833	DJ Vinyl Sliced 10	SFX
834	DJ Vinyl Sliced 11	SFX
835	DJ Vinyl Sliced 12	SFX

#	Name	Family
836	DJ Vinyl Sliced 13	SFX
837	DJ Vinyl Sliced 14	SFX
838	DJ Vinyl Sliced 15	SFX
839	DJ Vinyl Sliced 16	SFX
840	DJ Vinyl Sliced 17	SFX
841	DJ Vinyl Sliced 18	SFX
842	DJ Vinyl Sliced 19	SFX
843	DJ Vinyl Sliced 20	SFX
844	DJ Vinyl Sliced 21	SFX
845	DJ Vinyl Sliced 22	SFX
846	DJ Vinyl Sliced 23	SFX
847	DJ Vinyl Sliced 24	SFX
848	DJ Scratch 01	SFX
849	DJ Scratch 02	SFX
850	DJ Scratch 03	SFX
851	DJ Scratch 04	SFX
852	DJ Scratch 05	SFX
853	DJ Scratch 06	SFX
854	DJ Hit Rub	SFX
855	DJ Vocal Rub1	SFX
856	DJ Vocal Rub2	SFX
857	DJ BD Rub	SFX
858	DJ SD Rub	SFX
859	Guiro Long	Latin Perc.
860	Guiro Short	Latin Perc.
861	Vibraslap	Ethnic Perc.
862	Samba Whistle	Ethnic Perc.
863	Samba Whistle Lp	Ethnic Perc.
864	Cuica Hi	Latin Perc.
865	Cuica Lo	Latin Perc.
866	Surdo Open GM	Latin Perc.
867	Surdo Mute GM	Latin Perc.
868	Tumba Open1 mf	Latin Perc.
869	Tumba Open1 f	Latin Perc.
870	Tumba Open2 mf	Latin Perc.
871	Tumba Open2 f	Latin Perc.
872	Tumba Open Flam	Latin Perc.
873	Tumba Glissando	Latin Perc.
874	Tumba Basstone	Latin Perc.
875	Tumba O.Slap Flam mf	Latin Perc.
876	Tumba O.Slap Flam f	Latin Perc.
870	Tumba O.Slap Hami	Latin Perc.
877	Conga1 Lo Basstone	Latin Perc.
878	Conga1 Lo Open mf	Latin Perc.
880	Conga1 Lo Open Slap	Latin Perc.
880	Conga 1 Lo Open Siap Conga 1 Lo Glissando	Latin Perc.
882	Conga1 Lo Glissando Conga1 Lo Muffled	Latin Perc.
883	Conga1 Lo Mullied	Latin Perc.
883 884		
	Conga1 Lo Closed Slap	Latin Perc.
885	Conga1 Lo Heel	Latin Perc.
886	Conga1 Lo Toe	Latin Perc.
887	Conga1 Hi Basstone mf	Latin Perc.
888	Conga1 Hi Basstone f	Latin Perc.

#	Name	Family
889	Conga1 Hi Open mf	Latin Perc.
890	Conga1 Hi Open Slap	Latin Perc.
891	Conga1 Hi Muffled	Latin Perc.
892	Conga1 Hi Closed	Latin Perc.
893	Conga1 Hi Closed Slap	Latin Perc.
894	Conga1 Hi Heel	Latin Perc.
895	Conga1 Hi Toe	Latin Perc.
896	Conga2 Lo Open	Latin Perc.
897	Conga2 Lo Mt Slap	Latin Perc.
898	Conga2 Lo Slap	Latin Perc.
899	Conga2 Hi Open	Latin Perc.
900	Conga2 Hi Mute	Latin Perc.
901	Conga2 Hi Mt Slap	Latin Perc.
902	Conga2 Hi Slap1	Latin Perc.
903	Conga2 Hi Slap2	Latin Perc.
904	Conga2 Heel	Latin Perc.
905	Conga2 Toe	Latin Perc.
906	Quinto1 Open	Latin Perc.
907	Quinto1 Closed	Latin Perc.
908	Quinto1 Closed Slap	Latin Perc.
909	Quinto1 Toe	Latin Perc.
910	Quinto2 Basstone	Latin Perc.
911	Quinto2 Open mp	Latin Perc.
912	Quinto2 Open Flam	Latin Perc.
913	Quinto2 Open Slap	Latin Perc.
914	Quinto2 Muffled	Latin Perc.
915	Quinto2 C.Slap Flam p	Latin Perc.
916	Quinto2 C.Slap Flam f	Latin Perc.
917	Quinto2 Heel	Latin Perc.
918	Bongo1 Lo Muffled mp	Latin Perc.
919	Bongo1 Lo Muffled f	Latin Perc.
920	Bongo1 Lo Closed	Latin Perc.
921	Bongo1 Lo Flam	Latin Perc.
922	Bongo1 Lo MuffledFlam	Latin Perc.
923	Bongo1 Lo Stick	Latin Perc.
924	Bongo1 Lo StickEdge mf	Latin Perc.
925	Bongo1 Lo StickEdge f	Latin Perc.
926	Bongo1 Lo StickBounce	Latin Perc.
927	Bongo1 Lo Fingernail	Latin Perc.
928	Bongo1 Lo Cuptone	Latin Perc.
929	Bongo1 Lo Slap	Latin Perc.
930	Bongo1 Hi Open mf	Latin Perc.
931	Bongo1 Hi Open f	Latin Perc.
932	Bongo1 Hi Pops	Latin Perc.
933	Bongo1 Hi Hightone	Latin Perc.
934	Bongo1 Hi OpenFlam	Latin Perc.
935	Bongo1 Hi Fingernail	Latin Perc.
936	Bongo1 Hi Stick	Latin Perc.
937	Bongo1 Hi StickEdge mf	Latin Perc.
938	Bongo1 Hi StickEdge f	Latin Perc.
939	Bongo1 Hi StickBounce	Latin Perc.
	Bongo1 Hi Cuptone	Latin Perc.
940	bongo i ni captone	

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#	Name	Family
942	Bongo2 Lo Open a	Latin Perc.
943	Bongo2 Lo Open b	Latin Perc.
944	Bongo2 Lo Mute	Latin Perc.
945	Bongo2 Hi Open a	Latin Perc.
946	Bongo2 Hi Open b	Latin Perc.
947	Bongo2 Hi Muffled	Latin Perc.
948	Bongo2 Hi Slap	Latin Perc.
949	Bongo2 Lo Heel	Latin Perc.
950	Bongo2 Lo Muffled	Latin Perc.
951	Bongo3 Lo Open	Latin Perc.
952	Bongo3 Lo Slap	Latin Perc.
953	Bongo3 Lo Stick	Latin Perc.
954	Bongo3 Hi Open	Latin Perc.
955	Bongo3 Hi Slap	Latin Perc.
956	Bongo3 Hi Stick1	Latin Perc.
957	Bongo3 Hi Stick2	Latin Perc.
958	Okonkolo Boca Open mp	Latin Perc.
959	Okonkolo Boca Open mf	Latin Perc.
960	Okonkolo Boca Open f	Latin Perc.
961	Okonkolo Boca Open ff	Latin Perc.
962	Okonkolo Chacha Open mp	Latin Perc.
963	Okonkolo Chacha Open mf	Latin Perc.
964	Okonkolo Chacha Open f	Latin Perc.
965	Okonkolo Chacha Open ff	Latin Perc.
966	Okonkolo Chacha Slap mp	Latin Perc.
967	Okonkolo Chacha Slap mf	Latin Perc.
968	Okonkolo Chacha Slap f	Latin Perc.
969	Baya Open	Latin Perc.
970	Baya Ghe	Latin Perc.
971	Baya GheUp a	Latin Perc.
972	Baya GheUp b	Latin Perc.
973	Baya KaPalm	Latin Perc.
974	Baya KaToe a	Latin Perc.
975	Baya KaToe b	Latin Perc.
976	Baya Nail a	Latin Perc.
977	Baya Nail b	Latin Perc.
978	Baya Nail c	Latin Perc.
979	Baya Ge	Latin Perc.
980	Baya Up	Latin Perc.
981	Baya UpDown a	Latin Perc.
982	Baya UpDown b	Latin Perc.
983	Baya Mute1	Latin Perc.
984	Baya Mute2	Latin Perc.
985	Baya Mute3	Latin Perc.
986	Tabla1 Na	Latin Perc.
987	Tabla1 Open	Latin Perc.
988	Tabla1 Tin	Latin Perc.
989	Tabla1 Mute1	Latin Perc.
990	Tabla1 Mute2	Latin Perc.
991	Tabla1 Mute3	Latin Perc.
992	Tabla2 Tin a	Latin Perc.
993	Tabla2 Tin b	Latin Perc.
994	Tabla2 Na a	Latin Perc.

#	Name	Family
995	Tabla2 Na b	Latin Perc.
996	Tabla2 Na c	Latin Perc.
997	Tabla2 Tun a	Latin Perc.
998	Tabla2 Tun b	Latin Perc.
999	Tabla2 Tele a	Latin Perc.
1000	Tabla2 Tele b	Latin Perc.
1000	Tabla2 Tele c	Latin Perc.
1001	Tabla2 Ti a	Latin Perc.
1002	Tabla2 Ti b	Latin Perc.
1005	Tabla2 Ti c	Latin Perc.
1001	Tabla2 Tera	Latin Perc.
1005	Tsuzumi	Latin Perc.
1000	Taiko Open	Latin Perc.
1007	Taiko Rim	Latin Perc.
1008	Timbales1 Lo Open mp	Latin Perc.
1009		Latin Perc.
1010	Timbales1 Lo Open mf	Latin Perc.
1011	Timbales 1 Lo Open mf GM	Latin Perc.
1012	Timbales1 Lo Edge mf Timbales1 Lo Edge f	Latin Perc.
1013	Timbales 1 Lo Edge f	Latin Perc.
1014	Timbales1 Lo Abanico	Latin Perc.
	Timbales1 Lo Adanico	
1016	Timbales1 Lo Roll	Latin Perc.
1017		Latin Perc.
1018	Timbales1 Lo Mute f	Latin Perc.
1019	Timbales1 Lo Paila mf	Ethnic Perc.
1020	Timbales1 Lo Paila f	Ethnic Perc.
1021	Timbales1 Hi Open	Latin Perc.
1022	Timbales1 Hi Edge	Latin Perc.
1023	Timbales1 Hi Edge GM	Latin Perc.
1024	Timbales1 Hi RimShot mf	Latin Perc.
1025	Timbales1 Hi RimShot f	Latin Perc.
1026	Timbales1 Hi RimShot ff	Latin Perc.
1027	Timbales1 Hi Abanico1	Latin Perc.
1028	Timbales1 Hi Abanico2	Latin Perc.
1029	Timbales1 Hi Mute	Latin Perc.
1030	Timbales1 Hi Paila mf	Ethnic Perc.
1031	Timbales1 Hi Paila f	Ethnic Perc.
1032	Timbales2 Lo Open	Latin Perc.
1033 1034	Timbales2 Lo Mute	Latin Perc.
	Timbales2 Lo Rim	Latin Perc.
1035	Timbales2 Hi Edge	Latin Perc.
1036	Timbales2 Hi Rim1	Latin Perc.
1037	Timbales2 Hi Rim2	Latin Perc.
1038	Timbales2 Paila	Ethnic Perc.
1039	Cowbell1	Ethnic Perc.
1040	Cowbell2	Ethnic Perc.
1041	Cowbell3	Ethnic Perc.
1042	Cowbell4 Open	Ethnic Perc.
1043	Cowbell4 Mute	Ethnic Perc.
1044	Cowbell5 Open a	Ethnic Perc.
1045	Cowbell5 Open b	Ethnic Perc.
1046	Cowbell5 Mute	Ethnic Perc.
1047	Cowbell6	Ethnic Perc.

#	Name	Family
1048	Cowbell7-Open	Ethnic Perc.
1049	Cowbell7-Mute	Ethnic Perc.
1050	Agogo Bell	Ethnic Perc.
1051	Chacha Bell	Ethnic Perc.
1052	Mambo Bell	Ethnic Perc.
1053	Recoreco short1	Ethnic Perc.
1054	Recoreco short2	Ethnic Perc.
1055	Recoreco short3	Ethnic Perc.
1056	Recoreco long	Ethnic Perc.
1057	Triangle1 Open	Ethnic Perc.
1058	Triangle1 Mute	Ethnic Perc.
1059	Triangle2 Open Lp	Ethnic Perc.
1060	Triangle2 Closed c	Ethnic Perc.
1061	Sleigh Bell	Ethnic Perc.
1062	Rap Sleigh Bell	Ethnic Perc.
1063	Jingle Bell	Ethnic Perc.
1064	Bells Open	Ethnic Perc.
1065	Finger Cymbal	Ethnic Perc.
1066	Marc Tree	Ethnic Perc.
1067	Marc Tree GM	Ethnic Perc.
1068	Marc TreeLP	Ethnic Perc.
1069	Rainstick	SFX
1070	Flexatone	Ethnic Perc.
1071	Chinese Gong	Cymbal
1072	Claves1 Lo a	Latin Perc.
1073	Claves1 Lo b	Latin Perc.
1074	Claves1 Hi a	Latin Perc.
1075	Claves1 Hi b	Latin Perc.
1076	Claves2	Latin Perc.
1077	Wood Block 1 a	Latin Perc.
1078	Wood Block 1 b	Latin Perc.
1079	Wood Block 2 a	Latin Perc.
1080	Wood Block 2 b	Latin Perc.
1081	Wood Block 3 a	Latin Perc.
1082	Wood Block 3 b	Latin Perc.
1083	Wood Block 4 a	Latin Perc.
1084	Wood Block 4 b	Latin Perc.
1085	Wood Block 5 a	Latin Perc.
1086	Wood Block 5 b	Latin Perc.
1087	Wood Block 6 a	Latin Perc.
1088	Wood Block 6 b	Latin Perc.
1089	Wood Block 7	Latin Perc.
1090	Wood Block 8	Latin Perc.
1091	Castanet 1 a	Latin Perc.
1092	Castanet 1 b	Latin Perc.
1093	Castanet 1 c	Latin Perc.
1094	Castanet 2	Latin Perc.
1095	Castanet Single	Latin Perc.
1096	Castanet Single GM	Latin Perc.
1097	Castanet Double	Latin Perc.
1098	Cabasa 1 L a Down	Ethnic Perc.
1099	Cabasa 1 L a Up	Ethnic Perc.
1100	Cabasa 1 L b Down	Ethnic Perc.
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#	Name	Family			
1101	Cabasa 1 L b Up	Ethnic Perc.			
1102	Cabasa 1 S a Down	Ethnic Perc.			
1103	Cabasa 1 S a Up Ethnic Pe				
1104	Cabasa 1 S b Down	Ethnic Perc.			
1105	Cabasa 1 S b up	Ethnic Perc.			
1106	Cabasa 2 L Stack b	Ethnic Perc.			
1107	Cabasa 2 L Stack a	Ethnic Perc.			
1108	Cabasa 2 L Roll	Ethnic Perc.			
1109	Cabasa 2 S Stack a	Ethnic Perc.			
1110	Cabasa 2 S Stack b	Ethnic Perc.			
1111	Cabasa 2 S Roll	Ethnic Perc.			
1112	Cabasa 3 WS	Ethnic Perc.			
1113	Cabasa 3 Up	Ethnic Perc.			
1114	Cabasa 3 Down	Ethnic Perc.			
1115	Cabasa 3 Tap	Ethnic Perc.			
1116	Caxixi1 a	Ethnic Perc.			
1117	Caxixi1 b	Ethnic Perc.			
1118	Caxixi1 c	Ethnic Perc.			
1119	Caxixi2 a	Ethnic Perc.			
1120	Caxixi2 b	Ethnic Perc.			
1120	Caxixi2 b	Ethnic Perc.			
1122	Caxixi2 C	Ethnic Perc.			
1122	Caxixi3 Soft	Ethnic Perc.			
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1124	Shaker1 Push a	Ethnic Perc.			
1125	Shaker1 Push b	Ethnic Perc.			
1126	Shaker1 Pull a	Ethnic Perc.			
1127	Shaker1 Pull b	Ethnic Perc.			
1128	Shaker1 Accent a	Ethnic Perc.			
1129	Shaker1 Accent b	Ethnic Perc.			
1130	Shaker1 Slow a	Ethnic Perc.			
1131	Shaker1 Slow b	Ethnic Perc.			
1132	Shaker1 Slow c	Ethnic Perc.			
1133	Shaker1 Roll a	Ethnic Perc.			
1134	Shaker1 Roll b	Ethnic Perc.			
1135	Shaker1 Roll c	Ethnic Perc.			
1136	Shaker2	Ethnic Perc.			
1137	Shaker3	Ethnic Perc.			
1138	Maracas Push	Ethnic Perc.			
1139	Maracas Pull	Ethnic Perc.			
1140	Dumbek a	Latin Perc.			
1141	Dumbek b	Latin Perc.			
1142	Dumbek c	Latin Perc.			
1143	Dumbek d	Latin Perc.			
1144	Dumbek e	Latin Perc.			
1145	Dumbek f	Latin Perc.			
1146	Dumbek g	Latin Perc.			
1147	Dumbek h	Latin Perc.			
1148	Dumbek i	Latin Perc.			
1149	Dumbek j	Latin Perc.			
1150	Dumbek k	Latin Perc.			
1151	Djembe L Basstone a	Latin Perc.			
1152					
1153	Djembe L Basstone c	Latin Perc.			

#	Name	Family			
1154	Djembe L Open	Latin Perc.			
1155	Djembe L Open Slap	Latin Perc.			
1156	Djembe L Closed Slap	Latin Perc.			
1157	Djembe S Basstone a	Latin Perc.			
1158	Djembe S Basstone b	Latin Perc.			
1159	Djembe S Basstone c	Latin Perc.			
1160	Djembe Open	Latin Perc.			
1161	Djembe Mute	Latin Perc.			
1162	Djembe Slap	Latin Perc.			
1163	Djembe S Open	Latin Perc.			
1164	Djembe S Open Slap a	Latin Perc.			
1165	Djembe S Open Slap b	Latin Perc.			
1166	Djembe S Closed Slap a	Latin Perc.			
1167	Djembe S Closed Slap b	Latin Perc.			
1168	Djembe S Closed Slap c	Latin Perc.			
1169	Djembe Bass	Latin Perc.			
1170	Udu Open a	Latin Perc.			
1171	Udu Open b	Latin Perc.			
1172	Udu Open c	Latin Perc.			
1173	Udu Open d	Latin Perc.			
1174	Udu Slide a	Ethnic Perc.			
1175	Udu Slide b	Ethnic Perc.			
1176	Udu Half Open a	Latin Perc.			
1177	Udu Half Open b	Latin Perc.			
1178	Udu Half Open c	Latin Perc.			
1179	Udu Bell a	Latin Perc.			
1180	Udu Bell b	Latin Perc.			
1181	WD Brazillia1	Snare Drum			
1182	WD Brazillia2	Snare Drum			
1183	WD Ethno SD1	Snare Drum			
1184	WD Ethno SD2	Snare Drum			
1185	WD Ethno SD3	Snare Drum			
1186	WD Ethno SD4	Snare Drum			
1187	WD Ethno SD5	Snare Drum			
1188	WD Ethno SD6	Snare Drum			
1189	WD Kangaroo1	Snare Drum			
1190	WD Kangaroo2	SFX			
1191	WD Kangaroo3	SFX			
1192	WD Kangaroo4	SFX			
1193	WD Kangaroo5	SFX			
1194	WD Kangaroo6	SFX			
1195	WD Kangaroo7	SFX			
1196	WD Kangaroo8	SFX Ethnic Dorc			
1197	Tambourine Push	Ethnic Perc.			
1198	Tambourine Pull Tambourine Acc1 A	Ethnic Perc.			
1199 1200	Tambourine Acc1 A	Ethnic Perc.			
1200	Tambourine Acc1 B	Ethnic Perc.			
1201	Tambourine Acc2	Ethnic Perc. Latin Perc.			
1202	Tambourine Muter	Latin Perc.			
1203	Tambourine Open	Latin Perc.			
1204	M.E.1 Douf Rim Ak	Latin Perc.			
1205	M.E.1 Douf Tek Ak1	Latin Perc.			
1200	MILLI DOUL IEK AKI	Laun reit.			

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#	Name	Family		
1207	M.E.1 Douf Tek Ak2	Latin Perc.		
1208	M.E.1 Pand Open	Latin Perc.		
1209	M.E.1 Pand Pattern1	Latin Perc.		
1210	M.E.1 Pand Pattern2	Latin Perc.		
1211	M.E.1 Pand Pattern3	Latin Perc.		
1212	M.E.1 Pand Pattern4	Latin Perc.		
1213	M.E.1 Rek Dom Ak	Ethnic Perc.		
1214	M.E.1 Rek Jingle	Ethnic Perc.		
1215	M.E.1 Rik1	Latin Perc.		
1216	M.E.1 Rik2	Latin Perc.		
1217	M.E.1 Rik3	Latin Perc.		
1218	M.E.1 Sagat Half Open	Ethnic Perc.		
1219	M.E.1 Sagat Close	Ethnic Perc.		
1220	M.E.1 Surdo L Open	Latin Perc.		
1221	M.E.1 Surdo L Mute	Latin Perc.		
1222	M.E.1 Tabla Medium	Latin Perc.		
1223	M.E.1 Tabla Dom	Latin Perc.		
1224	M.E.1 Tabla Flam	Latin Perc.		
1225	M.E.1 Tabla Rim	Latin Perc.		
1226	M.E.1 Tabla Tak	Latin Perc.		
1227	M.E.1 Timbales	Ethnic Perc.		
1228	M.E.1 Udu f Open	Latin Perc.		
1229	M.E.1 Alkis	Latin Perc.		
1230	M.E.1 Bandir Open	Latin Perc.		
1231	M.E.1 Bandir Closed	Latin Perc.		
1232	M.E.1 Bongo Roll	Latin Perc.		
1233	M.E.1 Darbuka1 Tek1	Latin Perc.		
1234	M.E.1 Darbuka1 Tek2	Latin Perc.		
1235	M.E.1 Darbuka1 Open	Latin Perc.		
1236	M.E.1 Darbuka1 Closed	Latin Perc.		
1237	M.E.1 Darbuka2	Latin Perc.		
1238	M.E.1 Darbuka3	Latin Perc.		
1239	M.E.1 Darbuka4	Latin Perc.		
1240	M.E.1 Darbuka5 D1	Latin Perc.		
1241	M.E.1 Darbuka5 D2	Latin Perc.		
1242	M.E.1 Darbuka5 D3	Latin Perc.		
1243	M.E.1 Darbuka6 Mute	Latin Perc.		
1244	M.E.1 Darbuka6 Open	Latin Perc.		
1245	M.E.1 Darbuka6 Rim	Latin Perc.		
1246	M.E.1 Darbuka6 Dom Ak	Latin Perc.		
1247	M.E.1 Davul	Ethnic Perc.		
1248	M.E.1 Hollo1	Latin Perc.		
1249	M.E.1 Hollo2	Latin Perc.		
1250	M.E.1 Kup1	Latin Perc.		
1251	M.E.1 Kup2	Latin Perc.		
1252	M.E.1 Ramazan Davul1	Latin Perc.		
1253	M.E.1 Ramazan Davul2	Latin Perc.		
1254	M.E.1 Ramazan Davul3	Latin Perc.		
1255	M.E.1 Tef1	Ethnic Perc.		
1256	M.E.1 Tef2	Ethnic Perc.		
1257	M.E.1 Tef3	Ethnic Perc.		
1258	M.E.2 BD Kick	Bass Drum		
1259	M.E.2 SD	Snare Drum		

#	Name	Family		
1260	M.E.2 Asagum	Latin Perc.		
1261	M.E.2 Asmatek	Latin Perc.		
1262	M.E.2 Bendirgum	Latin Perc.		
1263	M.E.2 Bendirtek1	Latin Perc.		
1264	M.E.2 Bendirtek2	Latin Perc.		
1265	M.E.2 Dm1	Latin Perc.		
1266	M.E.2 Findik	Latin Perc.		
1267	M.E.2 Gum	Latin Perc.		
1268	M.E.2 Hollotokat	Latin Perc.		
1269	M.E.2 Islik1	SFX		
1270	M.E.2 Islik2	SFX		
1271	M.E.2 Kapalit	Latin Perc.		
1272	M.E.2 Kasik1	Latin Perc.		
1273	M.E.2 Kasik2	Latin Perc.		
1274	M.E.2 Kasik3	Latin Perc.		
1275	M.E.2 Kasik4	Latin Perc.		
1276	M.E.2 Kemik	Latin Perc.		
1277	M.E.2 Kenar1	Latin Perc.		
1278	M.E.2 Kenartek	Latin Perc.		
1279	M.E.2 Ramazangum	Latin Perc.		
1280	M.E.2 Ramazantek	Latin Perc.		
1281	M.E.2 Renk	Latin Perc.		
1282	M.E.2 Renkbir	Latin Perc.		
1283	M.E.2 Renkiki	Latin Perc.		
1284	M.E.2 Tefacik	Latin Perc.		
1285	M.E.2 Tefgum	Latin Perc.		
1286	M.E.2 Teftek1	Latin Perc.		
1287	M.E.2 Teftokat	Latin Perc.		
1288	M.E.2 Teftrill	Latin Perc.		
1289	M.E.2 Tefzil	Latin Perc.		
1290	M.E.2 Tek1	Latin Perc.		
1291	M.E.2 Tek2	Latin Perc.		
1292	M.E.2 Tekbir	Latin Perc.		
1293	M.E.2 Tokat	Latin Perc.		
1294	M.E.2 Toprgum	Latin Perc.		
1295	M.E.2 Toprtek1	Latin Perc.		
1296	M.E.2 Toprtek2	Latin Perc.		
1297	M.E.2 Toprtokat	Latin Perc.		
1298	M.E.2 TRILL1	Latin Perc.		
1299	M.E.2 Zil1	Ethnic Perc.		
1300	M.E.2 Zil2	Ethnic Perc.		
1301	M.E.2 Zil3	Ethnic Perc.		
1302	M.E.2 Zilgit	SFX		
1303	Orchestra Hit	SFX		
1304	Band Hit	SFX		
1305	Impact Hit	SFX		
1306	Metal Hit	SFX		
1307	Yeah!	SFX		
1308	Yeah! Solo	SFX		
1309	Uhh	SFX		
1310	Hit It	SFX		
1311	Uhhhh Solo	SFX		
1312	Comp Voice Noise	SFX		

#	Name	Family			
1313	Stadium	SFX			
1314	Applause	SFX			
1315	Scream	SFX			
1316	Laughing	SFX			
1317	Footsteps1	SFX			
1318	Footsteps2	SFX			
1319	Bird1	SFX			
1320	Bird2	SFX			
1321	Dog	SFX			
1322	Gallop	SFX			
1323	Crickets	SFX			
1324	Cat	SFX			
1325	Growl	SFX			
1326	Heart Beat	SFX			
1327	Heart Beat GM	SFX			
1328	Punch	SFX			
1329	Tribe	SFX			
1330	Door Creak	SFX			
1331	Door Slam	SFX			
1332	Car Engine	SFX			
1333	Car Stop	SFX			
1334	Car Pass	SFX			
1335	Car Crash	SFX			
1336	Train	SFX			
1337	Helicopter	SFX			
1338	Gun Shot1	SFX			
1339	Gun Shot2	SFX			
1340	Machine Gun	SFX			
1341	Laser Gun	SFX			
1342	Explosion	SFX			
1343	Thunder	SFX			
1344	Wind	SFX			
1345	Stream	SFX			
1346	Bubble	SFX			
1347	Bubble GM	SFX			
1348	Church Bell	SFX			
1349	Telephone Ring	SFX			
1350	Xylophone Spectr	SFX			
1351	Cricket Spectrum	SFX			
1352	Air Vortex	SFX			
1353	Noise White	SFX			
1354	Noise FM Mod	SFX			
1355	Tubular	Ethnic Perc.			
1356	Gamelan	Ethnic Perc.			
1357	Tambura	Ethnic Perc.			
1358	Gtr Cut Noise1	SFX			
1359	Gtr Cut Noise2	SFX			
1360	Power Chord	SFX			
1361	Fret Noise	SFX			
1362	Dist. Slide1	SFX			
1363	Dist. Slide2	SFX			
1364					
1364 E.Gtr Pick2 SFX					

#	Name	Family		
" 1366	Gtr Scratch1	-		
		SFX		
1367	Gtr Scratch2	SFX		
1368	Ac.Bs-String Slap	SFX		
1369	Amp Noise	SFX		
1370	Space Lore	SFX		
1371	Swish Terra	SFX		
1372	Hand Drill	SFX		
1373	Mouth Harp	SFX		
1374	Grv BD1	Bass Drum		
1375	Grv BD2	Bass Drum		
1376	Grv BD3	Bass Drum		
1377	Grv BD4	Bass Drum		
1378	Grv BD5	Bass Drum		
1379	Grv BD6	Bass Drum		
1380	Grv BD7	Bass Drum		
1381	Grv BD8	Bass Drum		
1382	Grv BD9	Bass Drum		
1383	Grv BD10	Bass Drum		
1384	Grv BD11	Bass Drum		
1385	Grv BD12	Bass Drum		
1386	Grv BD13	Bass Drum		
1387	Grv BD14	Bass Drum		
1388	Grv BD15	Bass Drum		
1389	Grv BD16	Bass Drum		
1390	Grv BD17	Bass Drum		
1391	Grv BD18	Bass Drum		
1392	Grv BD19	Bass Drum		
1393	Grv BD20	Bass Drum		
1394	Grv BD21	Bass Drum		
1395	Grv BD22	Bass Drum		
1396	Grv BD23	Bass Drum		
1397	Grv SD1	Snare Drum		
1398	Grv SD2	Snare Drum		
1399	Grv SD3	Snare Drum		
1400	Grv SD4	Snare Drum		
1401	Grv SD5	Snare Drum		
1402	Grv SD6	Snare Drum		
1403	Grv SD7	Snare Drum		
1404	Grv SD8	Snare Drum		
1405	Grv SD9	Snare Drum		
1406	Grv SD10	Snare Drum		
1407	Grv SD11	Snare Drum		
1408	Grv SD12	Snare Drum		
1409	Grv SD13	Snare Drum		
1410	Grv SD14	Snare Drum		
1411	Grv SD15	Snare Drum		
1412	Grv SD16	Snare Drum		
1413	Grv SD17	Snare Drum		
1414	Grv Rim1	Snare Drum		
1415	Grv Rim2	Snare Drum		
1416	Grv Rim3	Snare Drum		
1417	Grv Rim4	Snare Drum		
1418	Grv Rim5	Snare Drum		
0		S.a.e Druin		

#	Name	Family		
1419	Grv Rim6	Snare Drum		
1420	Grv HH Closed1	Hi Hat		
1421	Grv HH Closed2	Hi Hat		
1422	Grv HH Closed3	Hi Hat		
1423	Grv HH Closed4	Hi Hat		
1424	Grv HH Closed5	Hi Hat		
1425	Grv HH Closed6	Hi Hat		
1426	Grv HH Closed7	Hi Hat		
1427	Grv HH Closed8	Hi Hat		
1428	Grv HH Closed9	Hi Hat		
1429	Grv HH Closed10	Hi Hat		
1430	Grv HH Closed11	Hi Hat		
1431	Grv HH Closed12	Hi Hat		
1432	Grv HH Closed13	Hi Hat		
1433	Grv HH Closed14	Hi Hat		
1434	Grv HH Closed15	Hi Hat		
1435	Grv HH Closed16	Hi Hat		
1436	Grv HH Closed17	Hi Hat		
1437	Grv HH Open1	Hi Hat		
1438	Grv HH Open2	Hi Hat		
1439	Grv HH Open3	Hi Hat		
1440	Grv HH Open4	Hi Hat		
1441	Grv Hi Tom1	Tom		
1442	Grv Hi Tom2	Tom		
1443	Grv Low Tom1	Tom		
1444	Grv Low Tom2	Tom		
1445	Grv Ride	Cymbal		
1446	Grv Crash1	Cymbal		
1447	Grv Crash2	Cymbal		
1448	Grv Claps1	Latin Perc.		
1449	Grv Claps2	Latin Perc.		
1450	Grv Claps3	Latin Perc.		
1451	Grv Claps4	Latin Perc.		
1452	Grv Claps5	Latin Perc.		
1453	Grv Claps6	Latin Perc.		
1454	Grv Claps7	Latin Perc.		
1455	Grv Claps8	Latin Perc.		
1456	Grv Claps9	Latin Perc.		
1457	Grv Claps10	Latin Perc.		
1458	Grv Fx1	SFX		
1459	Grv Fx2	SFX		
1460	Grv Fx3	SFX		
1461	Grv Fx4	SFX		
1462	Grv Fx5	SFX		
1463	Grv Fx6	SFX		
1464	Grv Fx7	SFX		
1465	Grv Fx8	SFX		
1466	Grv Fx9 SFX			
1467	Grv Fx10 SFX			
1468	Grv Fx11 SFX			
1469	Grv Fx12	SFX		
1470	Grv Fx13	SFX		
1471	Grv Fx14	SFX		
		-		

#	Name	Family		
		-		
1472	Grv Fx15	SFX		
1473	Grv Fx16	SFX		
1474	Grv Fx17	SFX		
1475	Grv Fx18	SFX		
1476	Grv Fx19	SFX		
1477	Grv Fx20	SFX		
1478	Grv Fx21	SFX		
1479	Grv Fx22	SFX		
1480	Grv Fx23	SFX		
1481	Grv Fx24	SFX		
1482	Grv Fx25	SFX		
1483	Grv Fx26	SFX		
1484	Grv Fx27	SFX		
1485	Grv Fx28	SFX		
1486	Grv Fx29	SFX		
1487	Grv Fx30	SFX		
1488	Grv Fx31	SFX		
1489	Grv Fx32	SFX		
1490	Grv Fx33	SFX		
1491	Grv Fx34	SFX		
1492	Grv Fx35	SFX		
1493	Grv Slice1	SFX		
1494	Grv Slice2	SFX		
1495	Grv Slice3	SFX		
1496	Grv Slice4	SFX		
1497	Grv Slice5	SFX		
1498	Grv Slice6	SFX		
1499	Grv Slice7	SFX		
1500	Grv Slice8	SFX		
1501	Grv Slice9	SFX		
1502	Grv Slice10	SFX		
1503	Grv Slice11	SFX		
1504	Grv Slice12	SFX		
1505	Grv Slice13	SFX		
1506	Grv Slice14	SFX		
1507	Grv Slice15	SFX		
1508	Grv Slice16	SFX		
1509	Grv Slice17	SFX		
1510	Grv Slice18	SFX		
1511	Grv Slice19	SFX		
1512	Grv Slice20	SFX		
1513	Grv Slice21	SFX		
1514	Grv Slice22	SFX		
1515	Grv Slice23	SFX		
1516	78 BD	Bass Drum		
1517	78 SD1	Snare Drum		
1518	78 SD2	Snare Drum		
1519	78 HH Cl1	Hi Hat		
1520	78 HH Cl2	Hi Hat		
1521	78 HH Open	Hi Hat		
1522	78 Tom	Tom		
1523	78 Cymbal	Cymbal		
1524	78 Bongos	Latin Perc.		

#	Name	Family		
1525	78 Congas	Latin Perc.		
1526	78 Claves	Latin Perc.		
1527	55 BD	Bass Drum		
1528	55 Claps	Latin Perc.		
1529	55 CongaHi	Latin Perc.		
1530	55 CongaLow	Latin Perc.		
1531	55 Cowbell Hi	Ethnic Perc.		
1532	55 Cowbell Low	Ethnic Perc.		
1533	55 Crash	Cymbal		
1534	55 HH Close	Hi Hat		
1535	55 HH Open	Hi Hat		
1536	55 Ride	Cymbal		
1537	55 Rim	Snare Drum		
1538	55 SD	Snare Drum		
1539	55 Timbales Hi	Latin Perc.		
1540	55 Tom Hi	Tom		
1541	55 Tom Mid	Tom		
1542	55 Tom Low	Tom		
1543	66 BD	Bass Drum		
1544	66 SD	Snare Drum		
1545	66 HH Close	Hi Hat		
1546	66 HH Open	Hi Hat		
1547	66 Tom	Tom		
1548	66 Congas	Latin Perc.		
1549	66 Cymbal	Cymbal		
1550	66 Cowbell	Ethnic Perc.		
1551	88 BD1	Bass Drum		
1552	88 BD2	Bass Drum		
1553	88 BD Long	Bass Drum		
1554	88 SD1	Snare Drum		
1555	88 SD2	Snare Drum		
1556	88 SD2 GM	Snare Drum		
1557	88 SD3	Snare Drum		
1558	88 SD3 GM	Snare Drum		
1559	88 RIM Shot1	Snare Drum		
1560	88 Rim Shot2	Snare Drum		
1561	88 Rim Shot2 GM	Snare Drum		
1562	88 HH Close1	Hi Hat		
1563	88 HH Close1 acc	Hi Hat		
1564	88 HH Close1 acc GM	Hi Hat		
1565	88 HH Close2	Hi Hat		
1566	88 HH Close2 GM	Hi Hat		
1567	88 HH Open1	Hi Hat		
1568	88 HH Open1 GM	Hi Hat		
1569	88 HH Open2	Hi Hat		
1570	88 Tom1	Tom		
1571	88 Tom2	Tom		
1572	88 Cymbal	Cymbal		
1573	88 Cymbal Acc1	Cymbal		
1574	88 Cymbal Acc2	Cymbal		
1575	88 Crash	Cymbal		
1576	88 Crash GM	Cymbal		
1577 88 Bongos Latin Perc.				

360 Factory data Drum Samples

1589         99 SD2         Snare Drum           1590         99 SD3         Snare Drum					
1579         88 Congas2         Latin Perc.           1580         88 Claps1         Latin Perc.           1581         88 Claps2         Latin Perc.           1582         88 Claps2         Latin Perc.           1583         88 Claves         Latin Perc.           1584         88 Claves         Latin Perc.           1585         88 Cowbell         Ethnic Perc.           1584         88 Maracas         Ethnic Perc.           1585         99 BD1         Bass Drum           1586         99 BD2         Bass Drum           1587         99 BD3         Bass Drum           1588         99 SD1         Snare Drum           1589         99 SD2         Snare Drum           1590         99 SD3         Snare Drum           1591         99 RIM Shot         Snare Drum           1592         99 HH Close1         Hi Hat           1593         99 HH Close2         Hi Hat           1594         99 HH Close3         Hi Hat           1595         99 HH Open1         Hi Hat           1596         99 HH Open2         Hi Hat	#	Name	Family		
1580         88 Claps1         Latin Perc.           1580         88 Claps2         Latin Perc.           1581         88 Claps2         Latin Perc.           1582         88 Claves         Latin Perc.           1583         88 Cowbell         Ethnic Perc.           1584         88 Maracas         Ethnic Perc.           1585         99 BD1         Bass Drum           1586         99 BD2         Bass Drum           1587         99 BD3         Bass Drum           1588         99 SD1         Snare Drum           1589         99 SD2         Snare Drum           1589         99 SD2         Snare Drum           1590         99 SD3         Snare Drum           1591         99 RIM Shot         Snare Drum           1592         99 HH Close1         Hi Hat           1593         99 HH Close2         Hi Hat           1594         99 HH Close3         Hi Hat           1595         99 HH Open1         Hi Hat           1596         99 HH Open2         Hi Hat	1578	88 Congas1	Latin Perc.		
1581         88 Claps2         Latin Perc.           1582         88 Claves         Latin Perc.           1582         88 Claves         Latin Perc.           1583         88 Cowbell         Ethnic Perc.           1584         88 Maracas         Ethnic Perc.           1585         99 BD1         Bass Drum           1586         99 BD2         Bass Drum           1587         99 BD3         Bass Drum           1588         99 SD1         Snare Drum           1589         99 SD2         Snare Drum           1589         99 SD3         Snare Drum           1590         99 SD3         Snare Drum           1591         99 RIM Shot         Snare Drum           1592         99 HH Close1         Hi Hat           1593         99 HH Close2         Hi Hat           1594         99 HH Close3         Hi Hat           1595         99 HH Open1         Hi Hat           1596         99 HH Open2         Hi Hat	1579	88 Congas2	Latin Perc.		
1582         88 Claves         Latin Perc.           1583         88 Cowbell         Ethnic Perc.           1584         88 Maracas         Ethnic Perc.           1585         99 BD1         Bass Drum           1586         99 BD2         Bass Drum           1587         99 BD3         Bass Drum           1588         99 SD1         Snare Drum           1589         99 SD2         Snare Drum           1589         99 SD3         Snare Drum           1590         99 SD3         Snare Drum           1591         99 RIM Shot         Snare Drum           1592         99 HH Close1         Hi Hat           1593         99 HH Close2         Hi Hat           1594         99 HH Close3         Hi Hat           1595         99 HH Open1         Hi Hat           1596         99 HH Open2         Hi Hat	1580	88 Claps1	Latin Perc.		
1522         1523         88 Cowbell         Ethnic Perc.           1583         88 Cowbell         Ethnic Perc.           1584         88 Maracas         Ethnic Perc.           1585         99 BD1         Bass Drum           1586         99 BD2         Bass Drum           1587         99 BD3         Bass Drum           1588         99 SD1         Snare Drum           1589         99 SD2         Snare Drum           1590         99 SD3         Snare Drum           1591         99 RIM Shot         Snare Drum           1592         99 HH Close1         Hi Hat           1593         99 HH Close2         Hi Hat           1594         99 HH Close3         Hi Hat           1595         99 HH Open1         Hi Hat	1581	88 Claps2	Latin Perc.		
1552         05 Constant         Ethnic Perc.           1584         88 Maracas         Ethnic Perc.           1585         99 BD1         Bass Drum           1586         99 BD2         Bass Drum           1587         99 BD3         Bass Drum           1588         99 SD1         Snare Drum           1589         99 SD2         Snare Drum           1590         99 SD3         Snare Drum           1591         99 RIM Shot         Snare Drum           1592         99 HH Close1         Hi Hat           1593         99 HH Close2         Hi Hat           1594         99 HH Close3         Hi Hat           1595         99 HH Open1         Hi Hat           1596         99 HH Open2         Hi Hat	1582	88 Claves	Latin Perc.		
1585         99 BD1         Bass Drum           1586         99 BD2         Bass Drum           1587         99 BD3         Bass Drum           1588         99 SD1         Snare Drum           1589         99 SD2         Snare Drum           1590         99 SD3         Snare Drum           1591         99 RIM Shot         Snare Drum           1592         99 HH Close1         Hi Hat           1593         99 HH Close2         Hi Hat           1594         99 HH Close3         Hi Hat           1595         99 HH Open1         Hi Hat           1596         99 HH Open2         Hi Hat	1583	88 Cowbell	Ethnic Perc.		
1586         99 BD2         Bass Drum           1587         99 BD3         Bass Drum           1588         99 SD1         Snare Drum           1589         99 SD2         Snare Drum           1590         99 SD3         Snare Drum           1591         99 RIM Shot         Snare Drum           1592         99 HH Close1         Hi Hat           1593         99 HH Close2         Hi Hat           1594         99 HH Close3         Hi Hat           1595         99 HH Open1         Hi Hat           1596         99 HH Open2         Hi Hat	1584	88 Maracas	Ethnic Perc.		
1587         99 BD3         Bass Drum           1588         99 SD1         Snare Drum           1589         99 SD2         Snare Drum           1590         99 SD3         Snare Drum           1591         99 RIM Shot         Snare Drum           1592         99 HI Close1         Hi Hat           1593         99 HH Close2         Hi Hat           1594         99 HH Close3         Hi Hat           1595         99 HH Open1         Hi Hat	1585	99 BD1	Bass Drum		
1588         99 SD1         Snare Drum           1589         99 SD2         Snare Drum           1590         99 SD3         Snare Drum           1591         99 RIM Shot         Snare Drum           1592         99 HI Close1         Hi Hat           1593         99 HH Close2         Hi Hat           1594         99 HH Close3         Hi Hat           1595         99 HH Open1         Hi Hat           1596         99 HH Open2         Hi Hat	1586	99 BD2	Bass Drum		
1589         99 SD2         Snare Drum           1590         99 SD3         Snare Drum           1591         99 RIM Shot         Snare Drum           1592         99 HH Close1         Hi Hat           1593         99 HH Close2         Hi Hat           1594         99 HH Close3         Hi Hat           1595         99 HH Open1         Hi Hat           1596         99 HH Open2         Hi Hat	1587	99 BD3	Bass Drum		
1590         99 SD3         Snare Drum           1591         99 RIM Shot         Snare Drum           1592         99 HH Close1         Hi Hat           1593         99 HH Close2         Hi Hat           1594         99 HH Close3         Hi Hat           1595         99 HH Open1         Hi Hat           1596         99 HH Open2         Hi Hat	1588	99 SD1	Snare Drum		
1591         99 RIM Shot         Snare Drum           1592         99 HH Close1         Hi Hat           1593         99 HH Close2         Hi Hat           1594         99 HH Close3         Hi Hat           1595         99 HH Open1         Hi Hat           1596         99 HH Open2         Hi Hat	1589	99 SD2	Snare Drum		
1592         99 HH Close1         Hi Hat           1593         99 HH Close2         Hi Hat           1594         99 HH Close3         Hi Hat           1595         99 HH Open1         Hi Hat           1596         99 HH Open2         Hi Hat	1590	99 SD3	Snare Drum		
1593         99 HH Close2         Hi Hat           1594         99 HH Close3         Hi Hat           1595         99 HH Open1         Hi Hat           1596         99 HH Open2         Hi Hat	1591	99 RIM Shot	Snare Drum		
1594         99 HH Close3         Hi Hat           1595         99 HH Open1         Hi Hat           1596         99 HH Open2         Hi Hat	1592	99 HH Close1	Hi Hat		
1595         99 HH Open1         Hi Hat           1596         99 HH Open2         Hi Hat	1593	99 HH Close2	Hi Hat		
159699 HH Open2Hi Hat	1594	99 HH Close3	Hi Hat		
	1595	99 HH Open 1	Hi Hat		
1597 99 HH Open 3 Hi Hat	1596	99 HH Open2	Hi Hat		
	1597	99 HH Open3	Hi Hat		
1598 99 Tom Hi Tom	1598	99 Tom Hi	Tom		
1599 99 Tom Mid Tom	1599	99 Tom Mid	Tom		
1600 99 Tom Low Tom	1600	99 Tom Low	Tom		
1601 99 Claps Latin Perc.	1601	99 Claps	Latin Perc.		

#	Name	Family	
1602	99 Guiro1	Latin Perc.	
1603	99 Guiro2	Latin Perc.	
1604	99 Ride	Cymbal	
1605	99 Ride Dance	Cymbal	
1606	99 Crash1	Cymbal	
1607	99 Crash2	Cymbal	
1608	99 Crash3	Cymbal	
1609	99 Cabasa	Ethnic Perc.	
1610	99 Bongo Hi	Latin Perc.	
1611	99 Bongo Low	Latin Perc.	
1612	99 Agogo Hi	Ethnic Perc.	
1613	99 Agogo Low	Ethnic Perc.	
1614	99 Conga Hi	Latin Perc.	
1615	99 Conga Mid	Latin Perc.	
1616	99 Conga Low	Latin Perc.	
1617	99 WoodBlock	Latin Perc.	
1618	99 Timbale Hi	Latin Perc.	
1619	99 Timbale Mid	Latin Perc.	
1620	99 Metal	Ethnic Perc.	
1621	Click	SFX	
1622	Click GM	SFX	
1623	Seq Click	SFX	
1624	Empty	(none)	

# Pads

You can assign the following Hits or Sequences to the four Pads. Older sounds might be still assigned to the Pads when loading musical resources generated with an older operating system (see the following section).

#	HIT - Drum	#	HIT - Percussion	#	HIT - World 1	#	Hit - World 2	#	HIT - Orchestral
1	88 Cowbell	1	Agogo 1	1	Baja 1	1	Kup 1	1	Brass Fall
2	88 Crash	2	Agogo 2	2	Baja 2	2	Kup 2	2	Orch.Cymbal 1
3	China	3	Castanet 1	3	China Gong	3	Kup 3	3	Orch.Cymbal 2
4	Crash 1	4	Castanet 2	4	Darbuka 1	4	Kup 4	4	Orch. Hit
5	Crash 2	5	Conga Hi	5	Darbuka 2	5	Ramazan 1	5	Orch. Snare
6	Rev. Cymbal	6	Conga Low	6	Darbuka 3	6	Ramazan 2	6	Orch. Sn. Roll
7	Ride 1	7	Conga Mute	7	Darbuka 4	7	Ramazan 3	7	Timpani 1
8	Ride 2	8	Conga Slap	8	Darbuka 5	8	Rek Dom Ak	8	Timpani 2
9	Ride Bell	9	Cowbell	9	Darbuka 6	9	Rik 1	9	Timpani 3
10	Splash	10	Cuica 1	10	Darbuka 7	10	Rik 2	10	Timpani 4
11	Sticks	11	Cuica 2	11	Darbuka 8	11	Rik 3	11	Orchestra Tutti
12	Rim-Shot	12	Jingle Bell	12	Davul	12	Sagat 1	12	
13	Hi Tom Flam	13	Long Guiro	13	Douf Rim Ak	13	Sagat 2	13	
14	Mid Tom Flam	14	Short Guiro	14	Dragon Gong	14	Tef 1	14	
15	Low Tom Flam	15	Open Bells	15	Hollo 1	15	Tef 2	15	
16	Tom Flam End	16	Rain Stick	16	Hollo 2	16	Tef 3	16	
17	Drum Single A	17	Tamb. Acc. 1	17		17	Tef 4	17	
18	Drum Single B	18	Tamb. Acc. 2	18		18	Tef 5	18	
19	Drum Single C	19	Tamb. Open	19		19	Tef 6	19	
20	Drum Single D	20	Tamb. Push	20		20		20	
21	Drum Sing.HouseA	21	Timbale Hi	21		21		21	
22	Drum Sing.HouseB	22	Timbale Low	22		22		22	
23	Drum Sing.HouseC	23	Timbale Rim 1	23		23		23	
24	Drum Sing.HouseD	24	Timbale Rim 2	24		24		24	
25	Drum Kit A	25	Triangle 1	25		25		25	
26	Drum Kit B	26	Triangle 2	26		26		26	
27	Drum Kit C	27	Vibra Slap	27		27		27	
28	Drum Kit D	28	Whistle 1	28		28		28	
29	Drum Kit E	29	Whistle 2	29		29		29	
30	Drum Kit F	30	Windchimes 1	30		30		30	
31		31	Windchimes 2	31		31		31	
32		32	Windchimes 3	32		32		32	

#	HIT - Synth&Pad		HIT - Voice	#	HIT - Blocks	#	HIT - Misc&SFX 1	#	HIT - Misc&SFX 2
1	Cosmic	1	Aah!	1	Blk Funk 1 A	1	Applause	1	Bubble
2	VCF Modulation	2	Hit it !	2	Blk Funk 1 B	2	Bird 1	2	Car Crash
3	Planet Lead	3	Laughing	3	Blk Funk 1 C	3	Bird 2	3	Car Engine
4	Brightness	4	Scream	4	Blk Funk 1 D	4	Cat	4	Car Pass
5	Crystal	5	Uuh!	5	Blk Funk 2 A	5	Church Bell	5	Car Stop
6	New Age Pad	6	Yeah!1	6	Blk Funk 2 B	6	Crickets	6	Explosion
7	Fifths Lead	7	Yeah!2	7	Blk Funk 2 C	7	Dist. Slide 1	7	Gun Shot
8	Calliope	8		8	Blk Funk 2 D	8	Dist. Slide 2	8	Helicopter
9	Caribbean	9		9	Blk Organ A	9	Dog	9	Jet Plane
10	Rezbo	10		10	Blk Organ B	10	Door Creak	10	Laser Gun
11	Digital Polisix	11		11	Blk Organ C	11	Door Slam	11	Machine Gun
12	Motion Raver	12		12	Blk Organ D	12	Foosteps 1	12	Phone Ring
13	Moving Bell	13		13	Blk Choir A	13	Foosteps 2	13	Punch
14	Elastick Pad	14		14	Blk Choir B	14	Heart Beat	14	River
15	Rave	15		15	Blk Choir C	15	Horse Gallop	15	Seashore
16	Dance Remix	16		16	Blk Choir D	16	Lion	16	Siren
17	Vintage Sweep	17		17		17	Scratch 1	17	Starship
18	You Decide	18		18		18	Scratch 2	18	Thunder
19		19		19		19	Scratch 3	19	Train
20		20		20		20	Scratch 4	20	Wind
21		21		21		21	Scratch 5	21	
22		22		22		22	Scratch 6	22	
23		23		23		23	Stadium	23	
24		24		24		24		24	
25		25		25		25		25	
26		26		26		26		26	
27		27		27		27		27	
28		28		28		28		28	
29		29		29		29		29	
30		30		30		30		30	
31		31		31		31		31	
32		32		32		32		32	
	650 D		CEO. Demonster	-	650 Guanna	_	650 Bass	-	650 Bione
#	SEQ - Drum	#	SEQ - Percussion	#	SEQ - Groove	#	SEQ - Bass	#	SEQ - Piano
1	Drum DrumBasSolo	1	Perc FingerSnap	1	Grv Drum 1	1	Bass Pick Easy	1	Piano Accomp 1
2	Drum Snare Solo	2	Perc Triang.+HH	2	Grv Drum 2	2	Bass Pick Med.	2	Piano Accomp 2
3	Drum 8 Bt Easy	3	Perc Latin 1	3	Grv Brush	3	Bass Pick Busy	3	Piano Accomp 3
4	Drum 8 Bt Medium	4	Perc Latin 2	4	Grv Jazzy	4	Bass Finger Easy	4	Piano Accomp 4
5	Drum Rock 1	5	Perc Latin 3	5	Grv Latin	5	Bass Finger Med.	5	Piano Accomp 5
6	Drum Rock 2	6	Perc Mix	6	Grv HipHop 1	6	Bass Finger Walk	6	Piano Accomp 6
7	Drum Brush 1 3/4	7	Perc Soft	7	Grv HipHop 2	7	Bass Latin	7	Piano Accomp 7
8	Drum Brush 2 3/4	8	Perc Conga	8	Grv HipHop 3	8	Bass Slap	8	Piano Accomp 8
9	Drum Disco 1	9	Perc Conga+Ride	9	Grv HipHop 4	9	Bass Digital	9	Piano Accomp 9
10	Drum Disco 2	10	Perc Conga+Mix	10	Grv HipHop 5	10	Bass Synth	10	Piano Arpeg. 1
11	Drum Disco 3	11	Perc Conga+Bongo	11	Grv HipHop 6	11	Bass DigiFilter1	11	Piano Arpeg. 2
12	Drum Disco 4	12	Perc Conga+Tamb.	12	Grv Funk 1	12	Bass DigiFilter2	12	Piano Arp 1 3/4
13	Drum Funk 1	13	Perc Shaker	13	Grv Funk 2	13	Bass DigiFilter3	13	Piano Arp 2 3/4
14	Drum Funk 2	14	Perc Shak+Tamb 1	14	Grv Funk 3	14		14	Piano Arp Down
15	Drum Brush Shuff	15	Perc Shak+Tamb 2	15	Grv House 1	15		15	Piano Arp Up
16	Drum Latin	16	Perc Shak+Cong 1	16	Grv House 2	16		16	Piano Rhythm 1/8
17	Drum Progressiv1	17	Perc Shak+Cong 2	17	Grv Analog	17		17	Piano Rhythm1/8T
18	Drum Progressiv2	18	Perc Tambourine1	18	Grv Garage 1	18		18	Piano Latin Rock
19	Drum Fill 1	19	Perc Tambourine2	19	Grv Garage 2	19		19	Piano Salsa 1
20	Drum Fill 2	20	Perc Tamb+Conga1	20	Grv Dance 1	20		20	Piano Salsa 2
21	Drum Break	21	Perc Tamb+Conga2	21	Grv Dance 2	21		21	Pno GlissDwnWhit
22	Drum End	22	Perc Guiro+Bongo	22	Grv Techno 1	22		22	Pno GlissUpWhite
23		23	Perc Cowbel+Tamb	23	Grv Techno 2	23		23	Pno GlissDwnBlak
		24	Perc 3/4	24		24		24	Pno GlissUpBlack
24			1		1				l
24 25		25	Perc 6/8	25		25		25	Honky End

						1 -			
27		27		27		27		27	
28		28		28		28		28	
29		29		29		29		29	
30		30		30		30		30	
31		31		31		31		31	
32		32		32		32		32	
#	SEQ - Guitar	#	SEQ - Orchestral	#	SEQ - Solo	#	SEQ - Synth&Pad	#	SEQ - Misc&SFX
1	Gtr Steel Strum1	1	Timpani Roll 1	1	Solo Marimba	1	Synth Seq 1	1	Military 1
2	Gtr Steel Strum2	2	Timpani Roll 2	2	Solo Kalimba 1	2	Synth Seq 2	2	Military 2
3	Gtr Steel Strum3	3	Orch. Tutti 1	3	Solo Kalimba 2	3	Synth Seq 3	3	Military 3
4	Gtr Steel Strum4	4	Orch. Tutti 2	4	Solo Steel Drums	4	Synth Seq 4	4	Military 4
5	Gtr Steel Strum5	5	Orch. Tutti 3	5	Solo Vibes	5	Synth Seq 5	5	Horror 1
6	Gtr Steel Strum6	6	Orch. Tutti 4	6	Solo Gtr Dist.	6	Synth Seq 6	6	Horror 2
7	GtSteelStrum 3/4	7	Orch. Harp 1	7	Solo Slide Steel	7	Synth Seq 7	7	Horror 3
8	Gtr Steel Arp 1	8	Orch. Harp 2	8	Solo Banjo	8	Synth Seq 8	8	Horror 4
9	Gtr Steel Arp 2	9	Orch. Harp 3	9	Solo Violin	9	Synth Seq 9	9	Lullaby 1
10	Gtr Steel Arp 3	10	Orch. Harp 4	10	Solo Harpsi 3/4	10	Synth Seq 10	10	Lullaby 2
11	GtrSteel Arp 6/8	11	Orch. Harp 5	11	Solo Harpsi 4/4	11	Synth Seq 11	11	Nature - River
12	Gtr Steel Mute 1	12	French Horns 1	12	Solo Gtr Funk	12	Synth Portam. 1	12	Nature - Storm
13	Gtr Steel Mute 2	13	French Horns 2	13	Solo Piano 1	13	Synth Portam. 2	13	Metronome 3/4
14	Guitar Country	14	Strings 1	14	Solo Piano 2	14	Synth Portam. 3	14	PreCount 3/4
15	Gtr Nylon Strum1	15	Strings 2	15	Solo Piano 3	15	Synth Portam. 4	15	Metronome 4/4
16	Gtr Nylon Strum2	16	Strings 3	16	Solo Piano 4	16	Synth Filter 1	16	PreCount 4/4
17	Gtr Nylon Strum3	17	Strings 4	17	Solo Synth 1	17	Synth Filter 2	17	PreCount 4/4 Dbl
18	Gtr Nylon Strum4	18	Strings 5	18	Solo Synth 2	18	Synth Pad Panned	18	Toccata
19	Gtr Nylon Strum5	19	Strings 6	19	Solo Synth 3	19	Synth Master Pad	19	5th Intro
20	Gtr Nylon Strum6	20	Strings 7	20	Solo Synth 4	20	Synth Dark Pad	20	Primavera
21	Gtr Nylon Arp 1	21		21	Solo Synth 5	21		21	Circus 1
22	Gtr Nylon Arp 2	22		22	Solo Synth 6	22		22	Circus 2
23	Gtr Nylon Arp 3	23		23	Solo Guitar 1	23		23	
24	GtrNylon Arp 3/4	24		24	Solo Guitar 2	24		24	
25		25		25	Solo Guitar 3	25		25	
26		26		26		26		26	
27		27		27		27		27	
28		28		28		28		28	
29		29		29		29		29	
30		30		30		30		30	
31		31		31		31		31	
32		32		32		32		32	

# **Effects**

# **Effects**

The following list shows all the Factory Effects. Detailed information on each effect's parameter are contained in the "Effects" chapter (see page 364).

## For FX Master 1/2

- 0 No Effect
- 1 Stereo Compressor
- 2 Stereo Limiter
- 3 Multiband Limiter
- 4 St.MasteringLimtr
- 5 Stereo Gate
- 6 St.Parametric4EQ
- 7 St. Graphic 7EQ
- 8 St.Exciter/Enhncr
- 9 Stereo Isolator
- 10 St. Wah/Auto Wah
- 11 St. Vintage Wah
- 12 St. Random Filter
- 13 St. MultiModeFilter
- 14 St. Sub Oscillator
- 15 Talking Modulator
- 16 Stereo Decimator
- 17 St. Analog Record
- 18 OD/Hi.Gain Wah
- 19 St. Guitar Cabinet
- 20 St. Bass Cabinet
- 21 Bass Amp Model
- 22 Bass Amp+Cabinet
- 23 Tube PreAmp Model
- 24 St. Tube PreAmp
- 25 MicModel+PreAmp
- 26 Stereo Chorus
- 27 Black Chorus/Flanger
- 28 St.HarmonicChorus
- 29 St. Biphase Mod.
- 30 Multitap Cho/Delay
- 31 Ensemble
- 32 Polysix Ensemble
- 33 Stereo Flanger
- 34 St. Random Flanger

- 35 St. Env. Flanger
- 36 Stereo Phaser
- 37 St. Random Phaser
- 38 St. Env. Phaser
- 39 Stereo Vibrato
- 40 St. Auto Fade Mod.
- 41 2Voice Resonator
- 42 Doppler
- 43 Scratch
- 44 Grain Shifter
- 45 Stereo Tremolo
- 46 St. Env. Tremolo
- 47 Stereo Auto Pan
- 48 St. Phaser + Trml
- 49 St. Ring Modulator
- 50 Detune
- 51 Pitch Shifter
- 52 Pitch Shifter BPM
- 53 Pitch Shift Mod.
- 54 Organ Vib/Chorus
- 55 Rotary Speaker
- 56 L/C/R Delay
- 57 Stereo/CrossDelay
- 58 St. Multitap Delay
- 59 St. Mod Delay
- 60 St. Dynamic Delay
- 61 St. AutoPanningDly
- 62 Tape Echo
- 63 Auto Reverse
- 64 Sequence BPM Dly
- 65 L/C/R BPM Delay
- 66 Stereo BPM Delay
- 67 St.BPM Mtap Delay
- 68 St.BPM Mod. Delay
- 69 St.BPMAutoPanDly
- 70 Tape Echo BPM
- 71 Reverb Hall

- 72 Reverb SmoothHall
- 73 Reverb Wet Plate
- 74 Reverb Dry Plate
- 75 Reverb Room
- 76 ReverbBrightRoom
- 77 Early Reflections
- 78 P4EQ Exciter
- 79 P4EQ Wah
- 80 P4EQ Cho/Flng
- 81 P4EQ Phaser
- 82 P4EQ Mt. Delay
- 83 Comp Wah
- 84 Comp Amp Sim
- 85 Comp OD/HiGain
- 86 Comp P4EQ
- 87 Comp Cho/Flng
- 88 Comp Phaser
- 89 Comp Mt. Delay
- 90 Limiter P4EQ
- 91 Limiter-Cho/Flng
- 92 Limiter Phaser
- 93 Limiter Mt.Delay
- 94 Exciter Comp
- 95 Exciter Limiter
- 96 Exciter-Cho/Flng
- 97 Exciter Phaser
- 98 Exciter Mt.Delay
- 99 OD/HG Amp Sim
- 100 OD/HG Cho/Flng
- 101 OD/HG Phaser
- 102 OD/HG Mt.Delay
- 103 Wah Amp Sim
- 104 Decimator Amp
- 105 Decimator Comp
- 106 AmpSim Tremolo
- 107 Cho/Flng Mt.Dly
- 108 Phaser Cho/Flng
- 109 Reverb Gate

## For FX Master 2 only

- 110 St.Mltband Limiter
- 111 PianoBody/Damper
- 112 OD/HyperGain Wah
- 113 GuitarAmp + P4EQ
- 114 BassTubeAmp+Cab.
- 115 St. Mic + PreAmp
- 116 Multitap Cho/Delay
- 117 St. Pitch Shifter
- 118 St. PitchShift BPM
- 119 Rotary SpeakerOD
- 120 L/C/R Long Delay
- 121 St/Cross Long Dly
- 122 Hold Delay
- 123 LCR BPM Long Dly
- 124 St. BPM Long Dly
- 125 Early Reflections

# **Dynamic Modulation sources**

When the  $D_{\text{med}}$  symbol is encoutered, a Dynamic Modulation can be applied to the corresponding parameter. Dynamic Modulation allows for realtime control of the effect. The following table shows the available modulation sources.

Modulation source	Note
Off	No modulation
Gate1	
Gate1+Dmpr	
Gate2	
Gate2+Dmpr	
Note Nr	Note Number
Velocity	Note Velocity
Expo Velocity	Exponential Note Velocity
AfterTouch	After Touch
JS X	Joystick Left/Right
JS+Y: CC#01	Joystick Forward
JS-Y: CC#02	Joystick Backward
MIDI(CC#04)	
MIDI(CC#12)	
MIDI(CC#13)	
Ribb.(CC#16)	Ribbon Controller
MIDI(CC#18)	
MIDI(CC#17)	
MIDI(CC#19)	
MIDI(CC#20)	
MIDI(CC#21)	
MIDI(CC#17+)	
MIDI(CC#19+)	
MIDI(CC#20+)	
MIDI(CC#21+)	
Damper: #64	
Prta.SW: #65	Portamento Switch

Modulation source	Note
Sostenu: #66	Sostenuto Pedal
MIDI(CC#67)	
MIDI(CC#80)	
MIDI(CC#81)	
MIDI(CC#82)	
MIDI(CC#83)	
MIDI(CC#85)	
MIDI(CC#86)	
MIDI(CC#87)	
MIDI(CC#88)	
Tempo	

Some notes on the Gate parameters follow.

#### Gate1, Gate1+Dmpr (Gate1+Damper)

The effect is at maximum during note-on, and will stop when all keys are released. With **Gate1 + Dmpr**, the effect will remain at maximum even after the keys are released, as long as the damper (sustain) pedal is pressed.

							Gat	te1,Gate1+Dmpr	1
Note	1	2	1		3	2	3	Dmpr	1
Damper P	edal			۲					
Gate1								¥ On ¥ Off	
Gate1+Dn	npr								
								Time	

#### Gate2, Gate2+Dmpr (Gate2+Damper)

This is essentially the same as for Gate 1 or Gate 1 + Dmpr. However when **Gate 2** or **Gate 2 + Dmpr** are used as a dynamic modulation source for the EG, a trigger will occur at each note-on. (In the case of Gate 1 and Gate 1 + Dmpr, the trigger occurs only for the first note-on.)

						Ga	te2,Gate2+Dmpr
Note	1	2	1	3	2	3	Dm <u>ģr</u>
Damper F	Pedal			,			
Gate2						1	Å On ▼ Off
Gate2+Dr	npr						
							Time

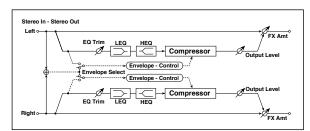
# **Dynamics (Dynamic)**

## 0: No Effect

Select this option when you do not use any effects.

## 1: Stereo Compressor

This effect compresses the input signal to regulate the level and give a "punchy" effect. It is useful for guitar, piano, and drum sounds. This is a stereo compressor. You can link left and right channels, or use each channel separately.



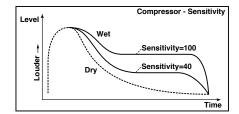
a	Envelope Select	L/R Mix, L/R Individ- ually	Determines whether the left and right channels are linked or used separately	
b	Sensitivity	1100	Sets the sensitivity	
с	Attack	1100	Sets the attack level	
d	EQ Trim	0100	Sets the EQ input level	
	Pre LEQ Fc	Low, Mid-Low	Selects the cutoff frequency (low or mid-low) of the low-range equalizer	
e	Pre HEQ Fc	High, Mid-High	Selects the cutoff frequency (high or mid-high) of the high-range equalizer	
f	Pre LEQ Gain [dB]	-15.0+15.0	Sets the gain of the Low EQ	
1	Pre HEQ Gain [dB]	-15.0+15.0	Sets the gain of the High EQ	
	Output Level	0100	Sets the output level of the compressor	
g	Src	OffTempo	Selects the modulation source for the compressor output level	
	Amt	-100+100	Sets the modulation amount for the compressor output level	
	Wet/Dry	Dry, 1:9999:1, Wet	Sets the Balance between the wet and dry signal	
h	Src	OffTempo	Selects a modulation source for Wet/Dry	
	Amt	-100+100	Sets the modulation amount for Wet/Dry	

#### a: Envelope Select

This parameter selects whether the left and right channels are linked to control both signals simultaneously, or whether each channel is controlled independently.

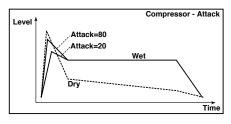
#### b: Sensitivity g: Output Level

The "Sensitivity" parameter sets the sensitivity of the compressor. If this parameter is set to a higher value, lower level sounds will be boosted. With a higher Sensitivity, the overall volume level is higher. To adjust the final volume level, use the "Output Level" parameter.



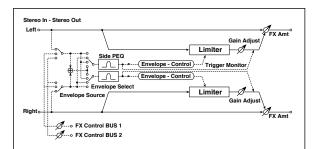
#### c: Attack

This parameter controls the attack level.



## 2: Stereo Limiter

The Limiter regulates the input signal level. It is similar to the Compressor, except that the Limiter compresses only signals that exceed the specified level to lower unnecessary peak signals. The Limiter applies a peaking-type EQ to the trigger signal (which controls the degree of the Limiter effect), allowing you to set any band width to be covered. This effect is a stereo limiter. You can link left and right channels, or use each channel individually.



a	Envelope Select	L/R Mix, L Only, R Only, L/R Individ- ually	Selects from linking both channels, controlling only from left channel, only from the right channel, or controlling each channel individ- ually
b	Ratio	1.0 : 1 50.0 : 1, Inf : 1	Sets the signal compression ratio
с	Threshold [dB]	-400	Sets the level above which the compressor is applied
	Attack	1100	Sets the attack time
v	Release	1100	Sets the release time
	Gain Adjust [dB]	–Inf, –38+24	Sets the output gain
e	Src	OffTempo	Selects the modulation source for the output gain
	Amt	-63+63	Sets the modulation amount of the output gain
f	Side PEQ Insert	Off, On	Toggles between on/off of the trigger signal's EQ
['	Trigger Monitor	Off, On	Switches between effect output monitor and trigger signal monitor
	Side PEQ Cutoff [Hz]	2012.00k	Sets the EQ center frequency for the trigger signal
g	Q	0.510.0	Sets the EQ bandwidth for the trigger signal
	Gain [dB]	-18.0+18.0	Sets the EQ gain for the trigger signal
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal
h	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366
	Amt	-100+100	Amount of modulation source

#### a: Envelope Select

When L/R Mix is selected for this parameter, the left and right channels are linked to control the Limiter using the mixed signal. If L Only (or R Only) is selected, the left and right channels are linked, and the Limiter is controlled via only the left (or right) channel.

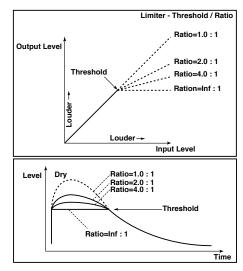
With L/R individually, the left and right channels control the Limiter individually.

## b: Ratio c: Threshold [dB]

e: Gain Adjust [dB]

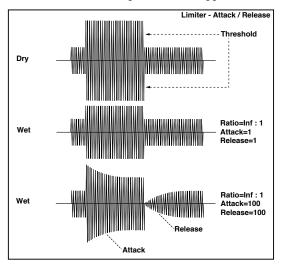
This parameter sets the signal compression "Ratio". Compression is applied only when the signal level exceeds the "Threshold" value.

Adjust the output level using the "Gain Adjust" parameter, since compression causes the entire level to be reduced.



#### d: Attack d: Release

These parameters set the attack time and release time. A higher attack time will cause the compression to be applied more slowly.



#### f: Trigger Monitor

Setting this parameter On will cause the trigger signal to be output, instead of the effect sound. Use this parameter to check the trigger signal with EQ applied.

Usually, set this to Off.

f: Side PEQ Insert g: Side PEQ Cutoff [Hz] g: Q

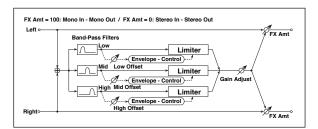
#### g: Gain [dB]

These parameters are used to set the EQ applied to the trigger signal.

The Limiter determines whether the compression is applied or not, based on the post-EQ trigger signal. Setting the equalizer allows you to set the Limiter to respond to any frequency band.

## **3: Multiband Limiter**

This effect applies the Limiter to the low range, mid range, and high range of the input signal. You can control dynamics for each range to adjust the sound pressure of the low range, mid range, and high range in a different way from the EQ.



а	Ratio	1.0 : 150.0 : 1, Inf : 1	Sets the signal compression ratio
b	Threshold [dB]	-400	Sets the level above which the compressor is applied
с	Attack	1100	Sets the attack time
d	Release	1100	Sets the release time
е	Low Offset [dB]	-400	Gain of the low-range trigger signal
f	Mid Offset [dB]	-400	Gain of the mid-range trigger signal
g	High Offset [dB]	-400	Gain of the high-range trigger signal
	Gain Adjust [dB]	–Inf, –38+24	Sets the output gain
h	Src	OffTempo	Selects the modulation source for the output gain
	Amt	-63+63	Sets the modulation amount of the output gain
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal
i	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366
	Amt	-100+100	Amount of modulation source

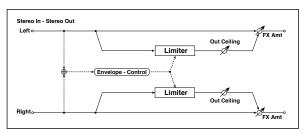
#### e: Low Offset [dB] f: Mid Offset [dB] g: High Offset [dB]

These parameters set the gain of the trigger signal.

For example, if you do not want to apply compression to the high range, reduce the "High Offset" value down below the "Threshold" level. In this way, the high range limiter will not respond, and compression will not be applied.

## 4: St.MasteringLimtr (Stereo Mastering Limiter)

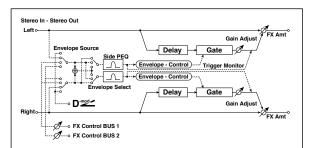
This is a stereo limiter that is optimized for mastering songs.



	а	Threshold [dB]	-30.00.0	Sets the level above which the compressor is applied	
	b	Out Ceiling [dB]	-30.00.0	Sets the output gain	
	с	Release [msec]	0.501000.0	Sets the release time	
		Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
	d	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
		Amt	-100+100	Amount of modulation source	

## 5: Stereo Gate

This effect mutes the input signal when it falls below a specified level. You can also invert the on/off status of the gate, or use note-on/off messages to turn the gate on/off directly.



а	Envelope Source	D-mod, Input	Selects the source to control the gate: D-mod control, or use the input signal as a trigger	
b	Envelope Select	L/R Mix, L Only, R Only	Selects the control signal: left and right linked, left only, or right only	
D	Src	OffTempo	Selects the source that will control the gate when Envelope Src = D- mod	
с	Threshold	0100	Sets the level at which gating is applied	
	Polarity	+, -	Switches the polarity of gating	
d	Attack	1100	Sets the attack time	
u	Release	1100	Sets the release time	
e	Delay Time [msec]	0100	Sets the delay time for the gate input	
f	Side PEQ Insert	Off, On	Switches the trigger signal equalizer on/off	
	Trigger Monitor	Off, On	Switches between monitoring the effect output and the trigger signal	
	Side PEQ Cutoff [Hz]	2012.00k	Sets the center frequency of the equalizer for the trigger signal	
g	Q	0.510.0	Sets the bandwidth of the equalizer for the trigger signal	
	Gain [dB]	-18.0+18.0	Sets the gain of the equalizer for the trigger signal	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
h	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

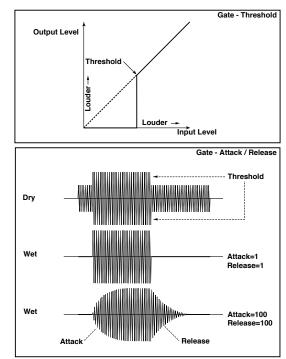
#### c: Threshold

d: Attack

#### d: Release

"Threshold" specifies the level at which gating occurs when "Envelope Select" is set to L/R Mix, L Only, or R Only.

"Attack" and "Release" specify the attack time and release time of the gate.



#### c: Polarity

This inverts the polarity of the gate on/off operation. With the "–" setting, the gate will close when the input signal exceeds the specified level. The direction in which the modulation source opens or closes the gate will also be reversed.

#### e: Delay Time [msec]

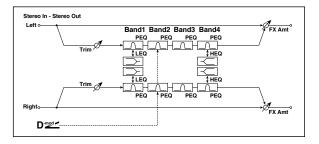
This sets the delay time for the input to the gate. When using shorter Attack Time settings, you can lengthen the Delay Time so that the sound is input after the gate opens.

# EQ and Filters (EQ/Filter)

## 6: St.Parametric4EQ

### (Stereo Parametric 4-Band EQ)

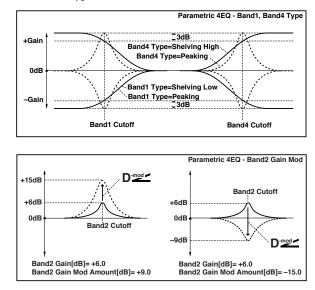
This is a stereo 4-band parametric equalizer. You can select peaking type or shelving type for Band 1 and 4. The gain of Band 2 can be controlled by dynamic modulation.



а	Trim	0100	Sets the input level	
b	Band1 Type	Peaking, Shelving-Low	Selects the type of Band 1	
с	Band4 Type	Peaking, Shelving-High	Selects the type of Band 4	
d	Band2 Dynamic Gain Src	OffTempo	Selects the modulation source of the Band 2 gain	
	Amt [dB]	-18.0+18.0	Sets the modulation amount of Band 2 gain	
	Band1 Cutoff [Hz]	201.00k	Sets the center frequency of Band 1	
e	Q	0.510.0	Sets the bandwidth of Band 1	
	Gain [dB]	-18.0+18.0	Sets the gain of Band 1	
	Band2 Cutoff [Hz]	5010.00k	Sets the center frequency of Band 2	
f	Q	0.510.0	Sets the bandwidth of Band 2	
	Gain [dB]	-18.0+18.0	Sets the gain of Band 2	
	Band3 Cutoff [Hz]	30010.00k	Sets the center frequency of Band 3	
g	Q	0.510.0	Sets the bandwidth of Band 3	
	Gain [dB]	-18.0+18.0	Sets the gain of Band 3	
	Band4 Cutoff [Hz]	50020.00k	Sets the center frequency of Band 4	
h	Q	0.510.0	Sets the bandwidth of Band 4	
	Gain [dB]	-18.0+18.0	Sets the gain of Band 4	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
i	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

#### b: Band1 Type c: Band4 Type

Selects a filter type for Band 1 and 4.



#### e, f, g, h: Q

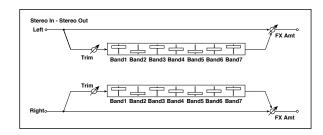
These parameters set the bandwidth of each equalizer. The higher the value, the narrower the band becomes.

#### d: Band2 Dynamic Gain Src d: Amt [dB]

You can control the gain of Band 2 using the modulation source.

## 7: St. Graphic 7EQ (Stereo Graphic 7-Band EQ)

This is a stereo 7-band graphic equalizer. The bar graph of the gain setting for each band gives you a clear, visual idea of frequency responses. You can select a center frequency setting for each band from twelve types, according to the sound.



a	Туре	1:Wide 1, 2:Wide 2, 3:Wide 3, 4:Half Wide 1, 5:Half Wide 2, 6:Half Wide 3, 7:Low, 8:Wide Low, 9:Mid, 10:Wide Mid, 11:High, 12:Wide High	Selects a combination of center frequencies for each band	
b	Trim	0100	Sets the input level	
с	Band1 [dB]	-18.0+18.0	Sets the gain of Band 1	
d	Band2 [dB]	-18.0+18.0	Sets the gain of Band 2	
е	Band3 [dB]	-18.0+18.0	Sets the gain of Band 3	
f	Band4 [dB]	-18.0+18.0	Sets the gain of Band 4	
g	Band5 [dB]	-18.0+18.0	Sets the gain of Band 5	
h	Band6 [dB]	-18.0+18.0	Sets the gain of Band 6	
i	Band7 [dB]	-18.0+18.0	Sets the gain of Band 7	

	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
j	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

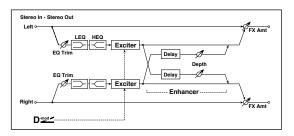
#### a: Type

This parameter selects a combination of center frequencies for each band. The center frequency of each band is shown in the right of the screen.

You can configure a 21-Band Graphic EQ ranging from 80 Hz to 18 kHz if you route three Graphic 7-Band EQ effects in series, with a setting of 7:Low, 9:Mid, and 11:High for each EQ.

## 8: St.Exciter/Enhncr (Stereo Exciter/Enhancer)

This effect is a combination of the Exciter, which adds a punch to the sound and the Enhancer, which adds spread and presence.



Exciter Blend         -100+100         Sets the intensity (depth) of the Exciter effect           a         Src         OffTempo         Selects the modulation source of the Exciter intensity           Amt         -100+100         Sets the modulation amount of the Exciter intensity           Emphasis Freq         070         Sets the frequency to be emphasized           b         Src         OffTempo         Sets the modulation source of the frequency to be emphasized
a     Src     Off lempo     Exciter intensity       Amt     -100+100     Sets the modulation amount of the Exciter intensity       Emphasis Freq     070     Sets the frequency to be emphasized
Amt     -100+100     Exciter intensity       Emphasis Freq     070     Sets the frequency to be emphasized
sized
Amt         -70+70         Sets the amount of modulation of the frequency to be emphasized
c Enhancer Delay L [msec] 0.050.0 Sets the delay time for the Enhancer left channel
d Enhancer Delay R [msec] 0.050.0 Sets the delay time for the Enhancer right channel
Enhancer Depth 0100 Sets the determines to what degree the Enhancer effect is applied
e Src OffTempo Selects the modulation source of the Enhancer width
Amt -100+100 Sets the modulation amount of the Enhancer width
f EQ Trim 0100 Sets the 2-band EQ input level
Pre LEQ Fc Low, Selects the cutoff frequency (low or mid-low) of the low-range equalizer
9 Pre HEQ Fc High, Mid-High Selects the cutoff frequency (high or mid-high) of the high-range equalizer
Pre LEQ Gain [dB] –15.0+15.0 Gain of the Lo EQ
n Pre HEQ Gain [dB] -15.0+15.0 Gain of the High EQ
Wet/Dry         Dry, 1:9999:1, Wet         Balance between the wet and dry signal
i Src OffTempo Table , "Dynamic Modulation sources," on page 366
Amt –100+100 Amount of modulation source

#### a: Exciter Blend

This parameter sets the depth (intensity) of the Exciter effect. Positive values give a frequency pattern (to be emphasized) different from negative values.

#### **b: Emphasis Freq**

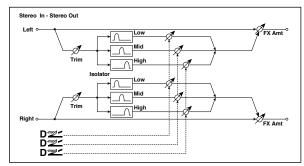
This parameter sets the frequency to be emphasized. Higher values will emphasize lower frequencies.

#### c: Enhancer Delay L [msec] d: Enhancer Delay R [msec]

These parameters set the delay time for the Enhancer left and right channel. Specifying a slightly different delay time for the left and right channel will add a stereo image, depth, and width to the sound.

## 9: Stereo Isolator

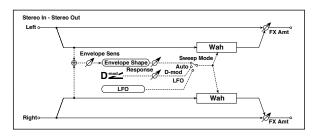
This is a stereo effect that separates the input signal into low, mid, and high-frequency bands, and controls the volume of each band independently. For example you can separately boost or cut the kick, snare, and hi-hat sounds from a drum signal in realtime.



а	Trim	0100	Sets the input level	
b	Low/Mid [Hz]	100500	Sets the frequency at which the low and mid bands are divided	
с	Mid/High [Hz]	20006000	Sets the frequency at which the mid and high bands are divided	
	Low Gain [dB]	–lnf, –59+12	Sets the low-frequency gain	
d	Src	OffTempo	Selects the source that will modulate low-frequency gain	
	Amt	-72+72	Sets the amount by which the low- frequency gain will be modulated	
	Mid Gain [dB]	–lnf, –59+12	Sets the mid-frequency gain	
e	Src	OffTempo	Selects the modulation source for mid-frequency gain	
	Amt	-72+72	Sets the amount by which the mid- frequency gain will be modulated	
	High Gain [dB]	–lnf, –59+12	Sets the high-frequency gain	
f	Src	OffTempo	Selects the modulation source for high-frequency gain	
	Amt	-72+72	Sets the amount by which the high- frequency gain will be modulated	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
g	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

## 10: St. Wah/Auto Wah (Stereo Wah/Auto Wah)

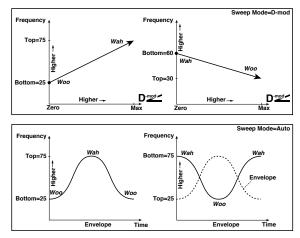
This stereo wah effect allows you to create sounds from vintage wah pedal simulation to auto-wah simulation, and much broader range settings.



а	Frequency Bottom	0100	Sets the lower limit of the wah center frequency	
d	Frequency Top	0100	Sets the upper limit of the wah center frequency	
	Sweep Mode	Auto, D-mod, LFO	Selects the control from auto-wah, modulation source, and LFO	
b	Src	OffTempo	Selects the modulation source for the wah when Sweep Mode=D-mod	
	Respon	0100	Sets the response speed when Sweep Mode = Auto or D-mod	
	Envelope Sens	0100	Sets the sensitivity of auto-wah	
с	Envelope Shape	-100+100	Sets the sweep curve of auto-wah	
	LFO Frequency [Hz]	0.0220.00	Sets the speed of the LFO	
d	Src	OffTempo	Selects a modulation source for LFO speed	
	Amt	-20.00 +20.00	Sets the modulation amount of LFO speed	
	MIDI Sync	Off, On	When this is on, the LFO speed is set by BPM, Base Note, and Times, instead of Frequency	<u>م</u> لك ال
e		MIDI,	MIDI syncs to the system tempo; 40-	
e	BPM	40.00 300.00	300 sets the tempo manually for this individual effect	
e	BPM Base Note		300 sets the tempo manually for this	
e		300.00	300 sets the tempo manually for this individual effect Selects the type of notes that	
	Base Note	300.00 rw	300 sets the tempo manually for this individual effect Selects the type of notes that specify the LFO speed Sets the number of notes that	
e f	Base Note Times	300.00 rw x1x32	300 sets the tempo manually for this individual effect Selects the type of notes that specify the LFO speed Sets the number of notes that specify the LFO speed	
	Base Note Times Resonance	300.00 rw x1x32 0100	300 sets the tempo manually for this individual effect Selects the type of notes that specify the LFO speed Sets the number of notes that specify the LFO speed Sets the resonance amount Switches the wah low pass filter on	
	Base Note Times Resonance Low Pass Filter	300.00 rw x1x32 0100 Off, On	300 sets the tempo manually for this individual effect Selects the type of notes that specify the LFO speed Sets the number of notes that specify the LFO speed Sets the resonance amount Switches the wah low pass filter on and off Sets the output level of the effect	
f	Base Note Times Resonance Low Pass Filter Output Level	300.00 rw x1x32 0100 Off, On 0100	300 sets the tempo manually for this individual effect Selects the type of notes that specify the LFO speed Sets the number of notes that specify the LFO speed Sets the resonance amount Switches the wah low pass filter on and off Sets the output level of the effect sound Selects the modulation source that	
f	Base Note Times Resonance Low Pass Filter Output Level Src	300.00 rw x1x32 0100 Off, On 0100 OffTempo	300 sets the tempo manually for this individual effect         Selects the type of notes that specify the LFO speed         Sets the number of notes that specify the LFO speed         Sets the resonance amount         Switches the wah low pass filter on and off         Sets the output level of the effect sound         Selects the modulation source that will control the effect output level         Sets the modulation amount of the	
f	Base Note Times Resonance Low Pass Filter Output Level Src Amt	300.00 rw x1x32 0100 Off, On 0100 OffTempo -100+100 Dry, 1:9999:1,	300 sets the tempo manually for this individual effect         Selects the type of notes that specify the LFO speed         Sets the number of notes that specify the LFO speed         Sets the resonance amount         Switches the wah low pass filter on and off         Sets the output level of the effect sound         Selects the modulation source that will control the effect output level         Sets the modulation amount of the effect output level         Balance between the wet and dry	

#### a: Frequency Bottom a: Frequency Top

The sweep width and direction of the wah filter are determined by the "Frequency Top" and "Frequency Bottom" settings.



#### b: Sweep Mode

This parameter changes the wah control mode. Setting "Sweep Mode" to Auto will select an auto-wah that sweeps according to envelope changes in the input signal level. Auto-wah is frequently used for funk guitar parts and clav sounds.

When "Sweep Mode" is set to D-mod, you can control the filter directly via the modulation source in the same way as a wah pedal.

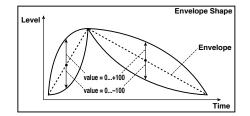
When "Sweep Mode" is set to LFO, the effect uses LFO to sweep in cycle.

#### c: Envelope Sens

This parameter sets the sensitivity of auto-wah. Increase the value if the input signal is too low to sweep. Reduce the value if the input signal is so high that the filter is stopped temporarily.

#### c: Envelope Shape

This parameter determines the sweep curve for auto-wah.



#### d: LFO Frequency [Hz] e: MIDI Sync

When "MIDI/Tempo Sync"=Off, the LFO speed uses the LFO Frequency parameter setting. When "MIDI/Tempo Sync"=On, the LFO speed follows the "BPM", "Base Note", and "Times" settings.

## e: BPM

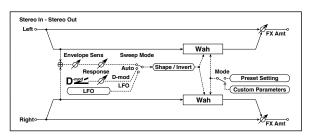
## e: Base Note

e: Times

One cycle of LFO sweep is obtained by multiplying the length of a note (r...w) (selected for "Base Note", in relation to the tempo specified in "BPM", or the MIDI Clock tempo if "BPM" is set to MIDI) by the number specified in the Times parameter.

## 11: St. Vintage Wah (Stereo Vintage/Custom Wah)

This effect simulates the tonal character of a vintage wah pedal. You can customize the tone and range settings.



	Mode	Preset, Custom	Selects either preset or custom settings	
а	Shape	-100+100	Sets the curve of the sweep	
	Invert	Off, On	Inverts the polarity of the sweep	
b	Frequency Bottom	0100	Sets the lower limit of the wah center frequency when Mode = Custom	
D	Frequency Top	0100	Sets the upper limit of the wah center frequency when Mode = Custom	
с	Resonance Bottom	0100	Sets the lower limit of resonance amount when Mode=Custom	
C	Resonance Top	0100	Sets the upper limit of resonance amount when Mode=Custom	
	Sweep Mode	Auto, D-mod, LFO	Selects the control from auto-wah, modulation source, and LFO	
d	Src	OffTempo	Selects the modulation source for the wah when Sweep Mode=D-mod	
	Manual	0100	Sets the center frequency when Sweep Mode=D-mod and Source=Off	
	Envelope Sens	0100	Sets the auto-wah sensitivity	
e	Response	0100	Sets the speed of response when Sweep Mode=Auto or D-mod	
	LFO Frequency [Hz]	0.0220.00	Sets the speed of the LFO	
f	Src	OffTempo	Selects a modulation source for LFO speed	
	Amt	-20.00 +20.00	Sets the modulation amount of LFO speed	
	MIDI Sync	Off, On	When this is on, the LFO speed is set by BPM, Base Note, and Times, instead of Frequency	D M
g	BPM	MIDI, 40.00 300.00	MIDI syncs to the system tempo; 40– 300 sets the tempo manually for this individual effect	
	Base Note	rw	Selects the type of notes that specify the LFO speed	
	Times	x1x32	Sets the number of notes that specify the LFO speed	
	Output Level	0100	Sets the output level of the effect sound	
h	Src	OffTempo	Selects the modulation source that will control the effect output level	
	Amt	-100+100	Sets the modulation amount of the effect output level	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
i	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

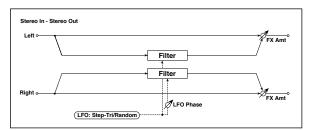
#### a: Shape

This parameter specifies the sweep curve of the wah. It applies to all control via auto-wah, modulation source, and LFO, and lets you adjust subtle nuances of the wah effect. a: Mode b: Frequency Bottom b: Frequency Top c: Resonance Bottom c: Resonance Top

If Mode=Preset, this simulates a vintage wah pedal. In this case, internally fixed values are used for Frequency Bottom/Top and Resonance Bottom/Top, and these settings will be ignored. The settings for Frequency Bottom/Top and Resonance Bottom/Top are valid if Mode=Custom.

## 12: St. Random Filter (Stereo Random Filter)

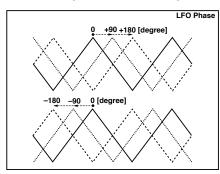
This stereo band pass filter uses a step-shape waveform and random LFO for modulation. You can create a special effect from filter oscillation.



	LFO Waveform	Step-Tri, Random	Selects the LFO Waveform	
а	LFO Phase [degree]	-180+180	Sets the LFO phase difference between the left and right	
	LFO Frequency [Hz]	0.0220.00	Sets the speed of the LFO	
b	Src	OffTempo	Selects the modulation source used for both LFO speed and step speed	
	Amt	-20.00 +20.00	Sets the modulation amount of LFO speed	
с	LFO Step Freq [Hz]	0.0550.00	Sets the LFO step speed (speed that changes in steps	
J	Amt	-50.00 +50.00	Sets the modulation amount of LFO step speed	
	MIDI Sync	Off, On	When this is on, the LFO speed is set by BPM, Base Note, and Times, instead of Frequency	Ą
d	BPM	MIDI, 40.00 300.00	MIDI syncs to the system tempo; 40– 300 sets the tempo manually for this individual effect	
	Base Note	rw	Selects the type of notes that specify the LFO speed	
	Times	x1x32	Sets the number of notes that specify the LFO speed	
	Step Base Note	rw	Selects the type of notes to specify the LFO step speed	<u>Д</u> ууг
e	Times	x1x32	Sets the number of notes to specify the LFO step speed	
	Manual	0100	Sets the filter center frequency	
f	Src	OffTempo	Selects the modulation source for the filter center frequency	
	Amt	-100+100	Sets the modulation amount for the filter center frequency	
	Depth	0100	Sets the modulation depth of filter center frequency	
g	Src	OffTempo	Selects the modulation source of filter modulation	
	Amt	-100+100	Sets the modulation amount of filter modulation	
h	Resonance	0100	Sets the resonance amount	
	Wet/Dry	-Wet, - 1:99Dry99:1 , Wet	Balance between the wet and dry signal	
i	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

#### a: LFO Phase [degree]

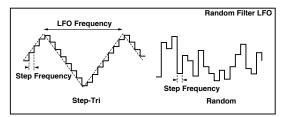
Offsetting the left and right phases alters how modulation is applied to the left and right channels, creating a swelling affect.



#### a: LFO Waveform b: LFO Frequency [Hz] c: LFO Step Freq [Hz]

When "LFO Waveform" is set to Step-Tri, LFO is a step-shape, triangle waveform. The "LFO Frequency" parameter sets the original triangle waveform speed. Changing the "LFO Step Freq" parameter enables you to adjust the width of the steps.

When "LFO Waveform" is set to Random, the "LFO Step Freq" parameter uses a random LFO cycle.



#### d: BPM e: Step Base Note e: Times

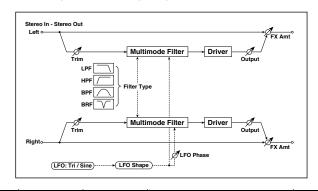
The width of an LFO step, or a cycle of random LFO, is obtained by multiplying the length of a note (r...w) (selected for "Step Base Note", in relation to the tempo specified in "BPM," or the MIDI Clock tempo if "BPM" is set to MIDI) by the number specified in the "Times" parameter.

#### i: Wet/Dry

The effect sound's phase will be reversed when you set this parameter in the negative range of values.

## 13: St. MultiModeFilter (Stereo Multi Mode Filter)

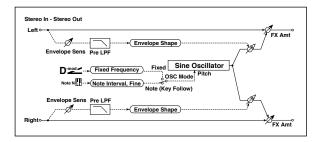
This is a multi-mode filter with four types; low pass, high pass, band pass, and band reject. You can use LFO or dynamic modulation to vary the cutoff frequency or resonance.



а	Туре	LPF, HPF, BPF, BRF	Selects the type of filter	
	Trim	0100	Sets the input level	
	Cutoff	0100	Sets the cutoff frequency (center frequency)	
b	Src	OffTempo	Selects the modulation source of the cutoff	
	Amt	-100+100	Sets the modulation amount of the cutoff	
	Resonance	0100	Sets the resonance amount	
с	Src	OffTempo	Selects the source that will modulate the amount of resonance	
	Amt	-100+100	Sets the amount by which the resonance will be modulated	
	LFO Waveform	Triangle, Sine	Selects the LFO Waveform	
d	Phase [degree]	-180+180	Sets the LFO phase difference between the left and right	
	Depth	0100	Sets the depth to which the LFO will modulate the cutoff frequency	
	LFO Frequency [Hz]	0.0220.00	Sets the speed of the LFO	
e	Src	OffTempo	Selects a modulation source for LFO speed	
	Amt	-20.00 +20.00	Sets the modulation amount of LFO speed	
	MIDI Sync	Off, On	When this is on, the LFO speed is set by BPM, Base Note, and Times, instead of Frequency	D M
f	BPM	MIDI, 40.00 300.00	MIDI syncs to the system tempo; 40– 300 sets the tempo manually for this individual effect	
	Base Note	rw	Selects the type of notes that specify the LFO speed	
	Times	x1x32	Sets the number of notes that specify the LFO speed	
g	Drive SW	Off, On	Switches distortion on/off within the filter	
	Output Level	0100	Sets the output level	
h	Drive Gain	0100	Sets the distortion amount	
	Low Boost	0100	Sets the amount of low-range boost	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
i	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

## 14: St. Sub Oscillator (Stereo Sub Oscillator)

This effect adds very low frequencies to the input signal. It is very useful when simulating a roaring drum sound or emphasizing powerful low range. This effect is different from the equalizer in that you can add very low range harmonics. You can also adjust the oscillator frequency to match a particular note number, for use as an octaver.



			-	
а	OSC Mode	Note (Key Follow), Fixed	Determines whether the oscillator frequency follows the note number or whether it is fixed	
b	Note Interval	-480	Sets the pitch difference from the note number when OSC Mode=Note (Key Follow)	
	Note Fine	-100+100	Fine adjustment of the oscillator frequency	
	Fixed Frequency [Hz]	10.080.0	Sets the oscillator frequency when OSC Mode=Fixed	
c	Src	OffTempo	Selects the modulation source for the oscillator frequency when OSC Mode=Fixed	
	Amt	-80+80	Sets the oscillator frequency modulation amount when OSC Mode=Fixed	
d	Envelope Pre LPF	1100	Sets the upper limit of the frequency range for which very low harmonics are added	
e	Envelope Sens	0100	Sets the sensitivity with which very low harmonics are added	
e	Envelope Shape	-100+100	Sets the oscillator's volume envelope curve	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
f	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

#### a: OSC Mode b: Note Interval b: Note Fine

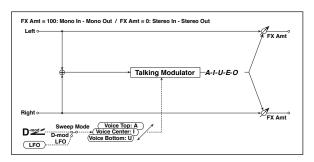
The "OSC Mode" parameter selects the oscillator operation mode. When Note (Key Follow) is selected, the oscillator's frequency is determined based on the note number, allowing you to use it as an octaver. The "Note Interval" parameter sets the pitch offset from the original note number by semitone steps. The "Note Fine" parameter allows you to fine-tune in steps of cents.

#### d: Envelope Pre LPF

This parameter sets the upper limit of the frequency range to which very low harmonics are added. Adjust this parameter if you do not want to add lower harmonics to the higher range.

## **15: Talking Modulator**

This effect adds an unusual character, like a human voice, to the input signal. Modulating the tone via dynamic modulation, you can create an interesting effect that sounds as if the guitar or synthesizer is talking.



а	Sweep Mode	D-mod, LFO	Switches between modulation source control and LFO control	
b	Manual Voice Control	Bottom, 149, Center, 5199, Top	Voice pattern control	
	Src	OffTempo	Selects the modulation source that controls the voice pattern	
с	Voice Top	A, I, U, E, O	Selects a vowel sound at the top end of control	
d	Voice Center	A, I, U, E, O	Selects a vowel sound in the center of control	
e	Voice Bottom	A, I, U, E, O	Selects a vowel sound at the bottom end of control	
f	Formant Shift	-100+100	Sets the frequency to which the effect is applied	
	Resonance	0100	Sets the Level of resonance of the voice pattern	
	LFO Frequency [Hz]	0.0220.00	Sets the speed of the LFO	
g	Src	OffTempo	Selects a modulation source for LFO speed	
	Amt	-20.00 +20.00	Sets the modulation amount of LFO speed	
	MIDI Sync	Off, On	When this is on, the LFO speed is set by BPM, Base Note, and Times, instead of Frequency	- Д
h	BPM	MIDI, 40.00 300.00	MIDI syncs to the system tempo; 40– 300 sets the tempo manually for this individual effect	
	Base Note	rw	Selects the type of notes that specify the LFO speed	
	Times	x1x32	Sets the number of notes that specify the LFO speed	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
i	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

#### c: Voice Top

d: Voice Center

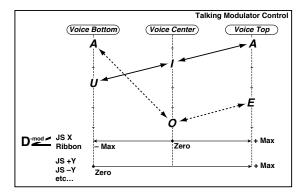
#### e: Voice Bottom

These parameters assign vowels to the top, center, and bottom position of the controller.

# E.g.: When "Voice Top"=A, "Voice Center"=I, and "Voice Bottom"=U:

If "Sweep Mode" is set to D-mod and Ribbon is selected as the modulation source, moving your finger from the right to left of the ribbon controller will change the sound from "a" to "i," then "u."

If Sweep Mode is set to LFO, the sound will change cyclically from "a" to "i," "u," "i," then "a."



#### f: Formant Shift

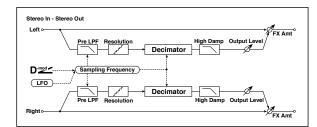
This parameter adjusts the frequency level to which the effect is applied. If you wish to apply the effect to a higher-range sound, set this parameter to a higher value; to apply the effect to a lower-range sound, set this to a lower value.

#### f: Resonance

This parameter sets the intensity of resonance for the voice pattern. A larger value will add more character to the sound.

## 16: Stereo Decimator

This effect creates a rough sound like a cheap sampler by lowering the sampling frequency and data bit length. You can also simulate noise unique to a sampler (aliasing).



		1		
а	Pre LPF	Off, On	Selects whether the harmonic noise caused by a decrease in sampling frequency is generated or not	
	High Damp [%]	0100	Sets the ratio of cut of the high range	
	Sampling Freq [Hz]	1.00k 48.00k	Sets the sampling frequency	
b	Src	OffTempo	Selects the modulation source of the sampling frequency	
	Amt	-48.00k +48.00k	Sets the modulation amount of the sampling frequency	
	LFO Frequency [Hz]	0.0220.00	Sets the speed of the LFO	
c	Src	OffTempo	Selects a modulation source for LFO speed	
	Amt	-20.00 +20.00	Sets the modulation amount of LFO speed	
	MIDI Sync	Off, On	When this is on, the LFO speed is set by BPM, Base Note, and Times, instead of Frequency	J∰
d	BPM	MIDI, 40.00 300.00	MIDI syncs to the system tempo; 40– 300 sets the tempo manually for this individual effect	
	Base Note	rw	Selects the type of notes that specify the LFO speed	
	Times	x1x32	Sets the number of notes that specify the LFO speed	
	Depth	0100	Sets the depth of the sampling frequency LFO modulation	
e	Src	OffTempo	Selects the LFO modulation source of the sampling frequency	
	Amt	-100+100	Sets the LFO modulation amount of the sampling frequency	
f	Resolution	424	Sets the data bit length	
	Output Level	0100	Sets the output level	
g	Src	OffTempo	Selects the modulation source for the output level	
	Amt	-100+100	Sets the modulation amount of the output level	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
h	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

#### a: Pre LPF

If a sampler with a very low sampling frequency receives very high-pitched sound that could not be heard during playback, it could generate pitch noise that is unrelated to the original sound. Set "Pre LPF" to On to prevent this noise from being generated.

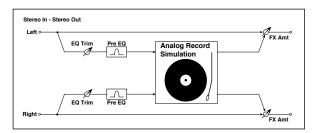
If you set the "Sampling Freq" to about 3 kHz and set "Pre LPF" to Off, you can create a sound like a ring modulator.

#### f: Resolution g: Output Level

If you set a smaller value for the "Resolution" parameter, the sound may be distorted. The volume level may also be changed. Use "Output Level" to adjust the level.

## 17: St. Analog Record (Stereo Analog Record)

This effect simulates the noise caused by scratches and dust on analog records. It also reproduces some of the modulation caused by a warped turntable.



а	Speed [RPM]	33 1/3, 45, 78	Sets the r.p.m. of a record
b	Flutter	0100	Sets the modulation depth
с	Noise Density	0100	Sets the noise density
C	Noise Tone	0100	Sets the noise tone
	Noise Level	0100	Sets the noise level
d	Src	OffTempo	Selects the modulation source for the noise level
	Amt	-100+100	Sets the modulation amount of the noise level
	Click Level	0100	Sets the click noise level
e	Src	OffTempo	Selects the modulation source for the click noise level
	Amt	-100+100	Sets the modulation amount of the click noise level
f	EQ Trim	0100	Sets the EQ input level
	Pre EQ Cutoff [Hz]	30010.00k	Sets the EQ center frequency
g	Q	0.510.0	Sets the EQ band width
	Gain [dB]	-18.0+18.0	Sets the EQ gain
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal
h	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366
	Amt	-100+100	Amount of modulation source

#### **b:** Flutter

This parameter enables you to set the depth of the modulation caused by a warped turntable.

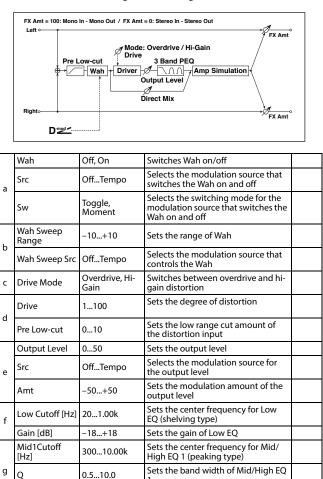
#### e: Click Level

This parameter enables you to set the level of the click noise that occurs once every rotation of the turntable. This simulation reproduces record noise, and the noise generated after the music on a vinyl record finishes.

# Overdrive, Amp models, and Mic models (OD Amp Mic)

## 18: OD/Hi.Gain Wah (Overdrive/Hi.Gain Wah)

This distortion effect utilizes an Overdrive mode and a Hi-Gain mode. Controlling the wah effect, the 3-band EQ, and the amp simulation will allow you to create versatile distortion sounds. This effect is suitable for guitar and organ sounds.



Sets the gain of Mid/High EQ 1

Sets the gain of Mid/High EQ 2 Sets the amount of the dry sound

High EQ 2 (peaking type)

mixed to the distortion

off

signal

Sets the center frequency for Mid/

Sets the band width of Mid/High EQ

Switches the speaker simulation on/

Balance between the wet and dry

Table , "Dynamic Modulation sources," on page 366

Amount of modulation source

Gain [dB]

Gain [dB]

Direct Mix

Simulation

Speaker

Wet/Dry

Amt

[Hz]

h Q

j _{Src}

Mid2 Cutoff

-18...+18

500...20.00k

0.5...10.0

-18...+18

0...50

Off. On

Dry, 1:99...99:1, Wet

Off...Tempo

-100...+100

#### a: Wah

The Wah parameter switches the wah effect on/off.

#### a: Sw

This parameter sets how the wah effect is switched on and off via the modulation source.

When "Sw" = Moment, the wah effect is usually turned off. It is turned on only when you press the pedal or operate the joystick.

WD When a value for the modulation source is less than 64, "off" speed is selected, and when the value is 64 or higher, "on" is selected.

When "Sw" = Toggle, the wah effect is switched between on and off each time you press the pedal or operate the joystick.

MD The switch will be turned on/off each time the value of the modulation source exceeds 64.

#### b: Wah Sweep Range b: Wah Sweep Src

This parameter sets the sweep range of the wah center frequency. A negative value will reverse the direction of sweep. The wah center frequency can be controlled by the modulation source specified in the "Wah Sweep Src" parameter.

#### d: Pre Low-cut

Cutting the signal in the low range before it is input to the Distortion will create a sharp distortion.

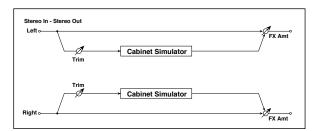
## d: Drive

## e: Output Level

The degree of distortion is determined by the level of input signal and the setting of "Drive". Raising the "Drive" setting will cause the entire volume level to increase. Use the "Output Level" parameter to adjust the volume level. The "Output Level" parameter uses the signal level input to the 3-Band EQ. If clipping occurs at the 3-Band EQ, adjust the "Output Level" parameter.

## 19: St. Guitar Cabinet (Stereo Guitar Cabinet)

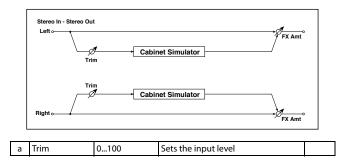
This simulates the acoustical character of a guitar amp's speaker cabinet.



а	Trim	0100	Sets the input level
			Selects the type of the cabinet
		TWEED - 1x12	Open-back cabinet with one 12" speaker, typically used for blues
		TWEED - 4x10	Open-back cabinet with four 10" speakers
		BLACK - 2x10	Open-back cabinet with two 10" speakers
		BLACK - 2x12	American open-back cabinet with two12" speakers
b	Туре	VOX AC15 - 1x12	Vox AC15 open-back cabinet with one 12" "Blue" speaker
		VOX AC30 - 2x12	Vox AC30 open-back cabinet with two 12" "Blue" speakers
		VOX AD412 - 4x12	VOX AD412 closed-back cabinet with four 12" speakers
		UK H30 - 4x12	Closed-back classic cabinet with four 30W 12" speakers
		UK T75 - 4x12	Closed-back cabinet with four 75W 12" speakers
		US V30 - 4x12	Closed-back cabinet with four 30W 12" speakers
с	Air	0100	Sets the mic position
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal
d	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366
	Amt	-100+100	Amount of modulation source

## 20: St. Bass Cabinet (Stereo Bass Cabinet)

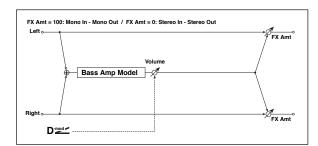
This simulates the acoustical character of a bass amp's speaker cabinet.



k       Wet/Dry       Dry. 199991,       Selects the cabinet type         k       Kerch       Four 10" speakers / LA sound cabinet         k       MODERN - 4x10       Four 10" aluminum-cone speakers / modern cabinet         METAL - 4x10       Four 10" aluminum-cone speakers / modern cabinet         k       METAL - 4x10       Four 10" aluminum-cone speakers / modern cabinet         k       KeTAL - 4x10       Four 10" aluminum-cone speakers / modern cabinet         k       KeTAL - 4x10       Four 10" speakers / classic cabinet         k       UK - 4x12       Four 12" speakers / UK-manufac-tured cabinet         k       STUDIO - 1x15       One 15" speaker / studio combo cabinet         JAZZ - 1x15       One 15" speaker / jazz combo cabinet         VOX AC100 - 2x15       Two 15" speakers / US-manufac-tured cabinet         VW + 4x15       Four 15" speakers / US-manufac-tured cabinet         UK - 4x15       Four 15" speakers / UK-manufac-tured cabinet         UK - 4x15       Cone 15" speakers / UK-manufac-tured cabinet         VM + 4x12       One 18" speaker / LA sound cabinet         Combinet       One 18" speaker / LA sound cabinet         Combinet       One 12" and one 18" speaker combination cabinet         Combinet       Dry, 1:9999:1, Balance between the wet and dry signal					
b       Cabinet Type       Cabinet Type       MODERN - 4x10       Four 10" aluminum-cone speakers / modern cabinet         b       Cabinet Type       METAL - 4x10       Four 10" aluminum-cone speakers / modern cabinet         b       Cabinet Type       STUDIO - 1x15       Classic cabinet         JAZZ - 1x15       One 15" speakers / studio combo cabinet       One 15" speakers / studio combo cabinet         UK - 4x12       Two 15" speakers / jazz combo cabinet       One 15" speakers / jazz combo cabinet         UK - 4x15       One 15" speakers / US-manufac- tured cabinet         UK - 4x15       Two 15" speakers / US-manufac- tured cabinet         UK - 4x15       Four 15" speakers / US-manufac- tured cabinet         UK - 4x15       Four 15" speakers / US-manufac- tured cabinet         UK - 4x15       Four 15" speakers / US-manufac- tured cabinet         UK - 4x15       Four 15" speakers / UK-manufac- tured cabinet         UK - 4x15       Four 15" speakers / UK-manufac- tured cabinet         UK - 1x18       One 18" speaker / LA sound cabinet         OMBI - 1x12       One 18" speaker combi- nation cabinet         Org. 1:9999:1, Wet       Balance between the wet and dry signal         c       Src       OffTempo       Table , "Dynamic Modulation sources," on page 366				Selects the cabinet type	
4x10       modern cabinet         METAL - 4x10       Four 10" aluminum-cone speakers / modern cabinet         CAbinet Type       UK - 4x12       Four 10" speakers / classic cabinet         STUDIO - 1x15       One 15" speaker / studio combo cabinet       One 15" speaker / jazz combo cabinet         VOX AC100 - 2x15       Two 15" speakers / US-manufac- tured cabinet         UK - 4x12       Two 15" speaker / jazz combo cabinet         VOX AC100 - 2x15       Two 15" speakers / Cabinet for Vox AC100         US - 2x15       Two 15" speakers / US-manufac- tured cabinet         UK - 4x15       Four 15" speakers / US-manufac- tured cabinet         UK - 4x15       Four 15" speakers / UK-manufac- tured cabinet         UK - 4x15       One 18" speaker / LA sound cabinet         VOMBI - 1x12       One 18" speaker / LA sound cabinet         Vet/Dry       Dry, 1:9999:1, Wet       Balance between the wet and dry signal         c       Src       OffTempo       Table, "Dynamic Modulation sources," on page 366			LA - 4x10		
METAL - 4X10       modern cabinet         modern cabinet       CLASSIC - 8x10       Eight 10" speakers / classic cabinet         UK - 4x12       Four 12" speakers / UK-manufac- tured cabinet         STUDIO - 1x15       One 15" speaker / studio combo cabinet         JAZZ - 1x15       One 15" speaker / jazz combo cabinet         VOX AC100 - 2x15       Two 15" speakers / cabinet for Vox AC100         UK - 4x15       Two 15" speakers / US-manufac- tured cabinet         UK - 4x15       Two 15" speakers / UK-manufac- tured cabinet         UK - 4x15       Two 15" speakers / UK-manufac- tured cabinet         UK - 4x15       Too 15" speakers / UK-manufac- tured cabinet         UK - 4x15       One 18" speaker / LA sound cabinet         One 18" speaker / LA sound cabinet       One 18" speaker / Dry 1:9999:1, 8alance between the wet and dry signal         c       Src       OffTempo       Table, "Dynamic Modulation sources," on page 366					
b       Cabinet Type       UK - 4x12       Four 12" speakers / UK-manufac-tured cabinet         b       Cabinet Type       STUDIO - 1x15       One 15" speaker / studio combo cabinet         JAZZ - 1x15       JAZZ - 1x15       One 15" speaker / jazz combo cabinet         VOX AC100 - 2x15       Two 15" speakers / US-manufac-tured cabinet         UK - 4x15       Two 15" speakers / US-manufac-tured cabinet         UK - 4x15       Four 15" speakers / US-manufac-tured cabinet         UK - 4x15       Four 15" speakers / US-manufac-tured cabinet         UK - 4x15       Four 15" speakers / UK-manufac-tured cabinet         UK - 4x15       Four 15" speakers / UK-manufac-tured cabinet         UK - 4x15       Four 15" speaker / LA sound cabinet         COMBI - 1x12       One 18" speaker / LA sound cabinet         COMBI - 1x12       One 12" and one 18" speaker combination cabinet         c       Src       OffTempo         Src       OffTempo       Table , "Dynamic Modulation sources," on page 366			METAL - 4x10		
b       Cabinet Type       UK - 4X12       tured cabinet         b       Cabinet Type       STUDIO - 1x15       One 15" speaker / studio combo cabinet         JAZZ - 1x15       One 15" speaker / jazz combo cabinet       One 15" speaker / jazz combo cabinet         VOX AC100 - 2x15       Two 15" speakers / cabinet for Vox AC100         US - 2x15       Two 15" speakers / US-manufactured cabinet         UK - 4x15       Four 15" speakers / US-manufactured cabinet         UK - 4x15       Four 15" speaker / LA sound cabinet         COMBI - 1x12       One 18" speaker / LA sound cabinet         COMBI - 1x12       One 12" and one 18" speaker combination cabinet         vet/Dry       Dry, 1:9999:1, Balance between the wet and dry signal         signal       Src       OffTempo         Table, "Dynamic Modulation sources," on page 366       Sec			CLASSIC - 8x10	Eight 10" speakers / classic cabinet	
b       Cabinet Type       SIUDIO - 1X1S       cabinet       One 15" speaker / jazz combo cabinet         JAZZ - 1x15       JAZZ - 1x15       One 15" speaker / jazz combo cabinet         VOX AC100 - 2x15       Two 15" speakers / cabinet for Vox AC100         US - 2x15       Two 15" speakers / US-manufac-tured cabinet         UK - 4x15       Four 15" speakers / UK-manufac-tured cabinet         LA - 1x18       One 18" speaker / LA sound cabinet         COMBI - 1x12       One 18" speaker / LA sound cabinet         Dry, 1:9999:1, Wet       Balance between the wet and dry signal         c       Src       OffTempo         Src       OffTempo       Table, "Dynamic Modulation sources," on page 366			UK - 4x12		
JAZZ - 1x15       One 15" speaker / jazz combo cabinet         VOX AC100 - 2x15       Two 15" speakers / cabinet for Vox AC100         US - 2x15       Two 15" speakers / US-manufactured cabinet         UK - 4x15       Four 15" speakers / UK-manufactured cabinet         LA - 1x18       One 18" speaker / LA sound cabinet         C       Wet/Dry       Dry, 1:9999:1, Wet         Src       OffTempo       Table, "Dynamic Modulation sources," on page 366	b	Cabinet Type	STUDIO - 1x15		
2x15     AC100       US - 2x15     Two 15" speakers / US-manufactured cabinet       UK - 4x15     Four 15" speakers / UK-manufactured cabinet       LA - 1x18     One 18" speaker / LA sound cabinet       COMBI - 1x12     One 12" and one 18" speaker combination cabinet       Wet/Dry     Dry, 1:9999:1, Wet     Balance between the wet and dry signal       Src     OffTempo     Table, "Dynamic Modulation sources," on page 366	~	casher type	JAZZ - 1x15		
view     05 - 2x15     tured cabinet       UK - 4x15     Four 15" speakers / UK-manufactured cabinet       LA - 1x18     One 18" speaker / LA sound cabinet       COMBI - 1x12     One 12" and one 18" speaker combination cabinet       wet/Dry     Dry, 1:9999:1, Wet     Balance between the wet and dry signal       c     Src     OffTempo     Table, "Dynamic Modulation sources," on page 366					
wet/Dry     Wet/Dry     Dry, 1:9999:1, Wet     Balance between the wet and dry signal       c     Src     OffTempo     Table, "Dynamic Modulation sources," on page 366			US - 2x15		
LA - IX18     LA sound cabinet       COMBI - 1x12     One 12" and one 18" speaker combination cabinet       Wet/Dry     Dry, 1:9999:1, Wet       C     Src     OffTempo       Table, "Dynamic Modulation sources," on page 366			UK - 4x15		
& 1x18     nation cabinet       Wet/Dry     Dry, 1:9999:1, Wet     Balance between the wet and dry signal       c     Src     OffTempo       Table, "Dynamic Modulation sources," on page 366			LA - 1x18		
webby         Wet         signal           c         Src         OffTempo         Table , "Dynamic Modulation sources," on page 366					
sources," on page 366		Wet/Dry			
Amt –100+100 Amount of modulation source	с	Src	OffTempo		
		Amt	-100+100	Amount of modulation source	

## 21: Bass Amp Model

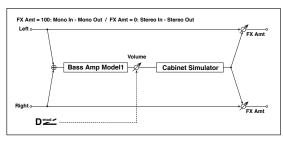
This simulates a bass amp.



	-	-		
			Selects the amplifier type	
		LA STUDIO	An amp that is typical of the LA sound.	
		JAZZ	A combo amp favored by jazz bassists.	
а	Amp Type	GOLD PANEL	An amp distinctive for its eye- catching gold panel and clean sound.	
		SCOOPED	An amp typical of 80's sounds.	
		VALVE2	A tube amp suitable for rock.	
		VALVE	A tube amp with the ULTRA LO switch turned ON.	
		CLASSIC	A tube amp whose basic character changes according to the setting of the value dial.	
	Volume	0100	Sets the output level	
b	Src	OffTempo	Selects the modulation source for the output level	
	Amt	-100+100	Sets the modulation amount of the output level	
с	Bass	0100	Sets the bass (low range) level	
d	Middle	0100	Sets the middle (mid range) level	
a	Mid Range	04	Sets the mid-frequency range	
e	Treble	0100	Sets the treble (high range) level	
f	Presence	0100	Sets the presence (high-frequency tone)	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
g	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

## 22: Bass Amp+Cabinet (Bass Amp Model+Cabinet)

This simulates a bass amp and speaker cabinet.



a	Amp Type	LA STUDIO, JAZZ , GOLD PANEL, SCOOPED, VALVE2, VALVE, CLASSIC	Selects the type of the amplifier
	Volume	0100	Sets the output level
b	Src	OffTempo	Selects the modulation source for the output level
	Amt	-100+100	Sets the modulation amount of the output level
с	Bass	0100	Sets the bass (low range) level
d	Middle	0100	Sets the middle (mid range) level
u	Mid Range	04	Sets the mid-frequency range
e	Treble	0100	Sets the treble (high range) level
f	Presence	0100	Sets the presence (high-frequency tone)
g	Cabinet Simulater	Off, On	Switches the cabinet simulator on/ off
h	Cabinet Type	LA - 4x10, MODERN - 4x10, METAL - 4x10, CLASSIC - 8x10, UK - 4x12, STUDIO - 1x15, JAZZ - 1x15, VOX AC100 - 2x15, US - 2x15, UK - 4x15, LA - 1x18, COMBI - 1x12 & 1x18	Selects the cabinet type
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal
i	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366
	Amt	-100+100	Amount of modulation source

## a: Amp Type

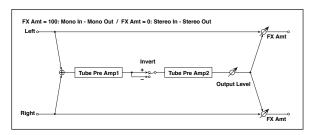
#### h: Cabinet Type

Recommended Combinations of Bass Amp Models and Cabinets:

Атр Туре	Cabinet Type
LA STUDIO	LA - 4x10, LA - 1x18
JAZZ	JAZZ - 1x15
GOLD PANEL	MODERN - 4x10
SCOOPED	METAL - 4x10
VALVE2	CLASSIC - 8x10
VALVE	CLASSIC - 8x10
CLASSIC	COMBI - 1x12 & 1x18

## 23: Tube PreAmp Model (Tube PreAmp Modeling)

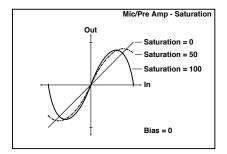
This effect simulates a two-stage vacuum tube preamp. You can make individual settings for two vacuum tubes connected in series. This lets you create the warm sound typical of vacuum tubes.



а	Tube1 Low Cut [Hz]	Thru, 218.00k	Sets the cutoff frequency for the low cut filter of stage 1
a	High Cut [Hz]	5320.00k, Thru	Sets the cutoff frequency for the high cut filter of stage 1
b	Tube1 Gain [dB]	-24.0+24.0	Sets the input gain for stage 1
ŭ	Saturation [%]	0100	Sets the input/output response for stage 1
с	Tube1 Bias	0100	Sets the bias voltage for stage 1
d	Tube1 Phase	Normal, Wet Invert	Turns phase reversal on/off
	Tube2 Low Cut [Hz]	Thru, 218.00k	Sets the cutoff frequency for the low cut filter of stage 2
e	High Cut [Hz]	5320.00k, Thru	Sets the cutoff frequency for the high cut filter of stage 2
f	Tube2 Gain [dB]	-24.0+24.0	Sets the input gain for stage 2
'	Saturation [%]	0100	Sets the input/output response for stage 2
g	Tube2 Bias	0100	Sets the bias voltage for stage 2
h	Tube2 Output Level [dB]	-48.0+0.0	Sets the output level
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal
i	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366
	Amt	-100+100	Amount of modulation source

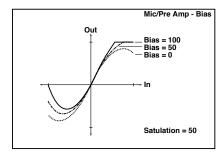
#### b, f: Saturation [%]

With higher settings of this value, the waveform will change at high gain levels, tending to cause distortion. Lower settings of this value will produce linear response.



#### c: Tube1 Bias

This expresses the effect that changes in vacuum tube bias have on the distortion of the waveform. Higher settings of this value will produce distortion even at low gain levels. Since this will also change the overtone structure, you can use it to control the tonal character.

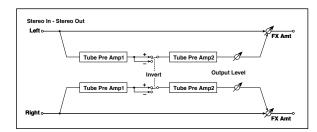


#### d: Tube1 Phase

With the Wet Invert setting, the phase of the signal will be inverted between stage 1 and stage 2. Since "Bias" is applied to the inverted signal in stage 2, this will change the tonal character.

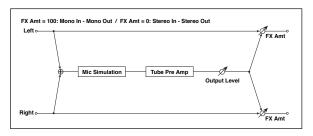
## 24: St. Tube PreAmp (Stereo Tube PreAmp Modeling)

This is a stereo vacuum tube preamp simulator (See "Tube Pre-Amp Model (Tube PreAmp Modeling)" on page 380.).



## 25: Mic Model+PreAmp (Mic Modeling + PreAmp)

This effect simulates a mic and vacuum tube preamp. You can choose from various types of mic and positions to create differing sonic characters.



		Vintage Dynamic, Multi Condenser, Percussion		
а	Mic Type	Condenser, Drums Dynamic, Vocal Dynamic, Multi Dynamic, Vocal Condenser, Vocal Tube, Kick Dynamic	Selects the type of mic	
b	Mic Position	Close, On, Off, Far	Sets the mic placement distance	
c	Tube Low Cut [Hz]	Thru, 218.00k	Sets the frequency of the low cut filter	
C	High Cut [Hz]	5320.00k, Thru	Sets the frequency of the high cut filter	
d	Tube Gain [dB]	-24.0+24.0	Sets the input gain to the vacuum tube preamp	
a	Saturation [%]	0100	Sets the input/output response of the preamp	
e	Tube Bias	0100	Sets the bias level of the preamp	
f	Tube Output Level [dB]	-48.0+0.0	Sets the output level of the preamp	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
g	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

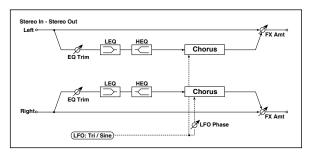
#### **b:** Mic Position

This expresses the effect that the mic position has on the sound. The Close setting is the closest mic position, and the Far setting is the farthest.

# Chorus, Flanger, and Phaser (Cho/Fln Phaser)

## 26: Stereo Chorus

This effect adds thickness and warmth to the sound by modulating the delay time of the input signal. You can add spread to the sound by offsetting the phase of the left and right LFOs from each other.



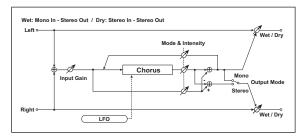
	LFO Waveform	Triangle, Sine	Selects the LFO Waveform	
а	LFO Phase [degree]	-180+180	Sets the LFO phase difference between the left and right	
	LFO Frequency [Hz]	0.0220.00	Sets the speed of the LFO	
b	Src	OffTempo	Selects a modulation source for LFO speed	
	Amt	-20.00 +20.00	Sets the modulation amount of LFO speed	
	MIDI Sync	Off, On	When this is on, the LFO speed is set by BPM, Base Note, and Times, instead of Frequency	₩ M
с	BPM	MIDI, 40.00 300.00	MIDI syncs to the system tempo; 40– 300 sets the tempo manually for this individual effect	
	Base Note	rw	Selects the type of notes that specify the LFO speed	
	Times	x1x32	Sets the number of notes that specify the LFO speed	
d	L Pre Delay [msec]	0.050.0	Sets the delay time for the left channel	
u	R Pre Delay [msec]	0.050.0	Sets the delay time for the right channel	
	Depth	0100	Sets the depth of LFO modulation	
e	Src	OffTempo	Selects the modulation source for the LFO modulation depth	
	Amt	-100+100	Sets the modulation amount of the LFO modulation depth	
f	EQ Trim	0100	Sets the EQ input level	
	Pre LEQ Fc	Low, Mid-Low	Selects the cutoff frequency (low or mid-low) of the low-range equalizer	
g	Pre HEQ Fc	High, Mid-High	Selects the cutoff frequency (high or mid-high) of the high-range equalizer	
h	Pre LEQ Gain [dB]	-15.0+15.0	Gain of the Low EQ	
n	Pre HEQ Gain [dB]	-15.0+15.0	Gain of the High EQ	
	Wet/Dry	-Wet, - 1:99Dry99:1 , Wet	Balance between the wet and dry signal	
i	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

#### d: L Pre Delay [msec] d: R Pre Delay [msec]

Setting the left and right delay time individually allows you to control the stereo image.

## 27: Black Chorus/Flanger

This models a Danish-made stereo chorus + pitch modulator & flanger. Although this effect was originally intended for guitar, it was also used by numerous keyboard players. Used with electric piano, it produces a distinctive tone.



Speed [Hz]	0.1010.0	Sets the LFO speed	
Intensity	1100	Sets the intensity of LFO modulation	
Mode	0, 1, 2	Select a mode 0: Chorus 1: Pitch Modulation 2: Flanger	
Width	02	Sets the LFO modulation depth	
Input Gain	1100	Sets the input gain	
Output Mode	0, 1	Select a output mode 0: Mono 1: Stereo	
Wet/Dry	Dry, 1:99 99:1, Wet	Balance between the wet and dry signal	
Source	OffTempo	Table , "Selects a modulation source for Wet/Dry," on page 367	
Amount	-100 +100	Table , "Sets the modulation amount for Wet/Dry," on page 367	

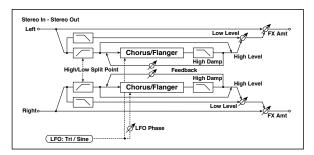
## Mode

#### Intensity

Increasing the "Intensity" value will strengthen the modulation effect. This controls the effect, direct, and feedback values. The values that are controlled will depend on the "Mode" setting.

## 28: St.HarmonicChorus (Stereo Harmonic Chorus)

This effect applies chorus only to higher frequencies. This can be used to apply a chorus effect to a bass sound without making the sound thinner. You can also use this chorus block with feedback as a flanger.



	LFO Waveform	Triangle Cine	Selects the LFO Waveform	
		Triangle, Sine		
а	LFO Phase [degree]	-180+180	Sets the LFO phase difference between the left and right	
	LFO Frequency [Hz]	0.0220.00	Sets the speed of the LFO	
b	Src	OffTempo	Selects a modulation source for LFO speed	
	Amt	-20.00 +20.00	Sets the modulation amount of LFO speed	
	MIDI Sync	Off, On	When this is on, the LFO speed is set by BPM, Base Note, and Times, instead of Frequency	<b>∆</b> ≌
с	BPM	MIDI, 40.00 300.00	MIDI syncs to the system tempo; 40– 300 sets the tempo manually for this individual effect	
	Base Note	rw	Selects the type of notes that specify the LFO speed	
	Times	x1x32	Sets the number of notes that specify the LFO speed	
d	Pre Delay [msec]	0.050.0	Sets the delay time from the original sound	
	Depth	0100	Sets the depth of LFO modulation	
e	Src	OffTempo	Selects the modulation source of the LFO modulation depth	
	Amt	-100+100	Sets the modulation amount of the LFO modulation depth	
f	High/Low Split Point	1100	Sets the frequency split point between the low and high range	
a	Feedback	-100+100	Sets the feed back amount of the chorus block	
g	High Damp [%]	0100	Sets the high range damping amount of the chorus block	
	Low Level	0100	Sets the low range output level	
h	High Level	0100	Sets the high range (chorus) output level	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
i	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

#### f: High/Low Split Point

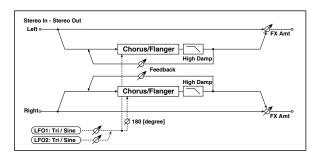
This parameter sets the frequency that splits the high and low range. Only the high range will be sent to the chorus block.

#### g: Feedback

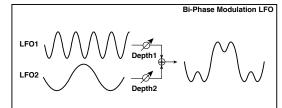
Sets the feedback amount of the chorus block. Increasing the feedback will allow you to use the effect as a flanger.

## 29: St. Biphase Mod. (Stereo Biphase Modulation)

This stereo chorus effect adds two different LFOs together. You can set the Frequency and Depth parameters for each LFO individually. Depending on the setting of these LFOs, very complex waveforms will create an analog-type, unstable modulated sound.

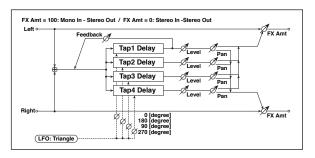


	LFO1 Waveform	Triangle, Sine	Selects LFO1 waveform
а	LFO2	Triangle, Sine	Selects LFO2 waveform
	Phase Sw	0 deg, 180 deg	Switches the LFO phase difference between left and right
	LFO1 Frequency [Hz]	0.0230.00	Sets the LFO1 speed
b	Src	OffTempo	Selects the modulation source of LFO1&2 speed
	LFO1 Amt	-30.00 +30.00	Sets the modulation amount of LFO1 speed
c	LFO2 Frequency [Hz]	0.0230.00	Sets the LFO2 speed
C	Amt	-30.00 +30.00	Sets the modulation amount of LFO2 speed
	Depth1	0100	Sets the depth of LFO1 modulation
d	Src	OffTempo	Selects the modulation source of LFO1&2 modulation depth
	Amt	-100+100	Sets the modulation amount of LFO1 modulation depth
e	Depth2	0100	Sets the depth of LFO2 modulation
e	Amt	-100+100	Sets the modulation amount of LFO2 modulation depth
f	L Pre Delay [msec]	0.050.0	Sets the delay time for the left channel
'	R Pre Delay [msec]	0.050.0	Sets the delay time for the right channel
a	Feedback	-100+100	Sets the feedback amount
g	High Damp [%]	0100	Sets the damping amount in the high range
h	Wet/Dry	-Wet, - 1:99Dry99:1 , Wet	Balance between the wet and dry signal
	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366
	Amt	-100+100	Amount of modulation source



## 30: Multitap Cho/Delay (Multitap Chorus/Delay)

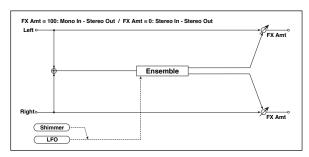
This effect has four chorus blocks with a different LFO phase. You can create a complex stereo image by setting each block's delay time, depth, output level, and pan individually. You can also fix some of the chorus blocks to combine the chorus and delay effects.



а	LFO Frequency [Hz]	0.0213.00	Sets the speed of the LFO	
	Tap1 (000) [msec]	01000	Sets the Tap1 (LFO phase=0 degrees) delay time	
b	Depth	030	Sets the Tap1 chorus depth	
	Level	030	Sets the Tap1 output level	
	Pan	L6L1, C, R1R6	Sets the Tap1 stereo image	
	Tap2 (180) [msec]	01000	Sets the Tap2 (LFO phase=180 degrees) delay time	
с	Depth	030	Sets the Tap2 chorus depth	
C	Level	030	Sets the Tap2 output level	
	Pan	L6L1, C, R1R6	Sets the Tap2 stereo image	
	Tap3 (090) [msec]	01000	Sets the Tap3 (LFO phase=90 degrees) delay time	
d	Depth	030	Sets the Tap3 chorus depth	
u	Level	030	Sets the Tap3 output level	
	Pan	L6L1, C, R1R6	Sets the Tap3 stereo image	
	Tap4 (270) [msec]	01000	Sets the Tap4 (LFO phase=270 degrees) delay time	
e	Depth	030	Sets the Tap4 chorus depth	
e	Level	030	Sets the Tap4 output level	
	Pan	L6L1, C, R1R6	Sets the Tap4 stereo image	
	Tap1 Feedback	-100+100	Sets the Tap1 feedback amount	
f	Src	OffTempo	Selects the modulation source of Tap1 feedback amount and effect balance	
	Amt	-100+100	Sets the Tap1 feedback amount and modulation amount	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
g	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

## 31: Ensemble

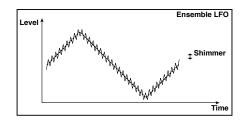
This Ensemble effect has three chorus blocks that use LFO to create subtle shimmering, and gives three dimensional depth and spread to the sound, because the signal is output from the left, right, and center.



	Speed	1100	Sets the speed of the LFO	
	speed	1100		
а	Src	OffTempo	Selects a modulation source for LFO speed	
	Amt	-100+100	Sets the modulation amount of LFO speed	
	Depth	0100	Sets the depth of LFO modulation	
b	Src	OffTempo	Selects the modulation source of the LFO modulation depth	
	Amt	-100+100	Sets the modulation amount of the LFO modulation depth	
с	Shimmer	0100	Sets the amount of shimmering of the LFO waveform	
d	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

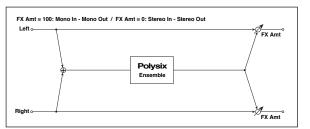
#### c: Shimmer

This parameter sets the amount of shimmering of the LFO waveform. Increasing this value adds more shimmering, making the chorus effect more complex and richer.



## 32: Polysix Ensemble

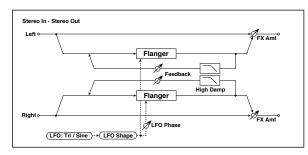
This models the ensemble effect built into the classic Korg PolySix programmable polyphonic synthesizer.



	Depth	0100	Sets the depth of the effect	
а	Src	OffTempo	Selects the modulation source that will control the effect depth	
	Amt	-100+100	Sets the amount by which the effect depth will be modulated	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
b	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

#### 33: Stereo Flanger

This effect gives a significant swell and movement of pitch to the sound. It is more effective when applied to a sound with a lot of harmonics. This is a stereo flanger. You can add spread to the sound by offsetting the phase of the left and right LFOs from each other.



а	Delay Time [msec]	0.050.0	Sets the delay time from the original sound	
	LFO Waveform	Triangle, Sine	Selects the LFO Waveform	
b	LFO Shape	-100+100	Changes the curvature of the LFO Waveform	
с	LFO Phase [degree]	-180+180	Sets the LFO phase difference between the left and right	
	LFO Frequency [Hz]	0.0220.00	Sets the speed of the LFO	
d	Src	OffTempo	Selects a modulation source for LFO speed	
	Amt	-20.00 +20.00	Sets the modulation amount of LFO speed	
	MIDI Sync	Off, On	When this is on, the LFO speed is set by BPM, Base Note, and Times, instead of Frequency	٩ M
e	BPM	MIDI, 40.00 300.00	MIDI syncs to the system tempo; 40– 300 sets the tempo manually for this individual effect	
	Base Note	rw	Selects the type of notes that specify the LFO speed	
	Times	x1x32	Sets the number of notes that specify the LFO speed	
f	Depth	0100	Sets the depth of LFO modulation	
	Feedback	-100+100	Sets the feedback amount	
g	High Damp [%]	0100	Sets the feedback damping amount in the high range	
	Wet/Dry	-Wet, - 1:99Dry99:1 , Wet	Balance between the wet and dry signal	
h	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

#### g: Feedback h: Wet/Dry

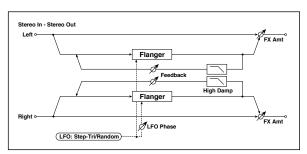
The peak shape of the positive and negative "Feedback" value is different. The harmonics will be emphasized when the effect sound is mixed with the dry sound if you set a positive value for both "Feedback" and "Wet/Dry", and if you set a negative value for both "Feedback" and "Wet/Dry".

#### g: High Damp [%]

This parameter sets the amount of damping of the feedback in the high range. Increasing the value will cut high-range harmonics.

## 34: St. Random Flanger (Stereo Random Flanger)

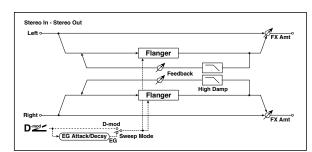
The stereo effect uses a step-shape waveform and random LFO for modulation, creating a unique flanging effect.



а	Delay Time [msec]	0.050.0	Sets the delay time from the original sound	
h	LFO Waveform	Step-Tri, Random	Selects the LFO Waveform	
b	LFO Phase [degree]	-180+180	Sets the LFO phase difference between the left and right	
	LFO Frequency [Hz]	0.0220.00	Sets the speed of the LFO	
с	Src	OffTempo	Selects the modulation source used for both LFO speed and step speed	
	Amt	-20.00 +20.00	Sets the modulation amount of LFO speed	
Ь	LFO Step Freq [Hz]	0.0550.00	Sets the LFO step speed (speed that changes in steps)	
u	Step Amt	-50.00 +50.00	Sets the modulation amount of LFO step speed	
	MIDI Sync	Off, On	When this is on, the LFO speed is set by BPM, Base Note, and Times, instead of Frequency	<u>т</u>
e	BPM	MIDI, 40.00 300.00	MIDI syncs to the system tempo; 40– 300 sets the tempo manually for this individual effect	
	Base Note	rw	Selects the type of notes that specify the LFO speed	
	Times	x1x32	Sets the number of notes that specify the LFO speed	
	Step Base Note	rw	Selects the type of notes to specify the LFO step speed	Д Ш
f	Times	x1x32	Sets the number of notes to specify the LFO step speed	
g	Depth	0100	Sets the depth of LFO modulation	
h	Feedback	-100+100	Sets the feedback amount	
	High Damp [%]	0100	Sets the feedback damping amount in the high range	
	Wet/Dry	-Wet, - 1:99Dry99:1 , Wet	Balance between the wet and dry signal	
i	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

## 35: St. Env. Flanger (Stereo Envelope Flanger)

This Flanger uses an envelope generator for modulation. You will obtain the same pattern of flanging each time you play. You can also control the Flanger directly using the modulation source.



а	L Dly Bottom [msec]	0.050.0	Sets the lower limit of the left- channel delay time	
a	L Dly Top [msec]	0.050.0	Sets the upper limit of the left- channel delay time	
b	R Dly Bottom [msec]	0.050.0	Sets the lower limit of the right- channel delay time	
u	R Dly Top [msec]	0.050.0	Sets the upper limit of the right- channel delay time	
	Sweep Mode	EG, D-mod	Determines whether the flanger is controlled by the envelope generator or by the modulation source	
с	Src	OffTempo	Selects the modulation source that triggers the EG (when Sweep Mode = EG), or the modulation source that causes the flanger to sweep (when Sweep Mode = D-mod)	
d	EG Attack	1100	Sets the EG attack speed	
a	EG Decay	1100	Sets the EG decay speed	
e	Feedback	-100+100	Sets the feedback amount	
f	High Damp [%]	0100	Sets the feedback damping amount in the high range	
	Wet/Dry	-Wet, - 1:99Dry99:1 , Wet	Balance between the wet and dry signal	
g	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

#### c: Sweep Mode

c: Src

This parameter switches the flanger control mode. With "Sweep Mode" = EG, the flanger will sweep using the envelope generator. This envelope generator is included in the envelope flanger, and not related to the Pitch EG, Filter EG, or Amp EG.

The "Src" parameter selects the source that starts the envelope generator. If you select, for example, Gate, the envelope generator will start when the note-on message is received.

When "Sweep Mode" = D-mod, the modulation source can control the flanger directly. Select the modulation source using the "Src" parameter.

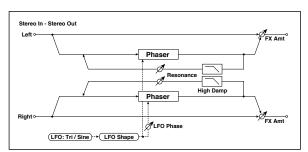
The effect is off when a value for the modulation source specified for the "Src" parameter is smaller than 64, and the effect is on when the value is 64 or higher. The Envelope Generator is triggered when the value changes from 63 or smaller to 64 or higher.

#### d: EG Attack d: EG Decay

Attack and Decay speed are the only adjustable parameters on this EG.

## 36: Stereo Phaser

This effect creates a swell by shifting the phase. It is very effective on electric piano sounds. You can add spread to the sound by offsetting the phase of the left and right LFOs from each other.



	LFO Waveform	Triangle, Sine	Selects the LFO Waveform	
а	LFO Shape	-100+100	Changes the curvature of the LFO Waveform	
b	LFO Phase [degree]	-180+180	Sets the LFO phase difference between the left and right	
	LFO Frequency [Hz]	0.0220.00	Sets the speed of the LFO	
с	Src	OffTempo	Selects a modulation source for LFO speed	
	Amt	-20.00 +20.00	Sets the modulation amount of LFO speed	
	MIDI Sync	Off, On	When this is on, the LFO speed is set by BPM, Base Note, and Times, instead of Frequency	<u>a</u>
d	BPM	MIDI, 40.00 300.00	MIDI syncs to the system tempo; 40– 300 sets the tempo manually for this individual effect	
	Base Note	rw	Selects the type of notes that specify the LFO speed	
	Times	x1x32	Sets the number of notes that specify the LFO speed	
	Manual	0100	Sets the frequency to which the effect is applied	
e	Src	OffTempo	Selects the modulation source for the LFO modulation	
	Amt	-100+100	Sets the modulation amount of the LFO modulation	
	Depth	0100	Sets the depth of LFO modulation	
f	Src	OffTempo	Selects the modulation source for the LFO modulation depth	
	Amt	-100+100	Sets the modulation amount of the LFO modulation depth	
	Resonance	-100+100	Sets the resonance amount	
h	High Damp [%]	0100	Sets the resonance damping amount in the high range	
	Wet/Dry	-Wet, - 1:99Dry99:1 , Wet	Balance between the wet and dry signal	
j	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

#### h: Resonance i: Wet/Dry

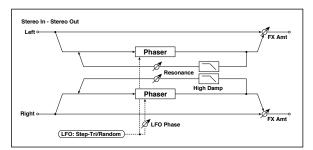
The peak shape of the positive and negative Feedback value is different. The harmonics will be emphasized when the effect sound is mixed with the dry sound, if you set a positive value for both "Resonance" and "Wet/Dry", and if you set a negative value for both "Resonance" and "Wet/Dry".

#### h: High Damp [%]

This parameter sets the amount of damping of the resonance in the high range. Increasing the value will cut high-range harmonics.

## 37: St. Random Phaser (Stereo Random Phaser)

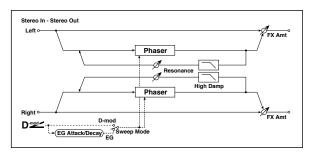
This is a stereo phaser. The effect uses a step-shape waveform and random LFO for modulation, creating a unique phasing effect.



				-
2	LFO Waveform	Step-Tri, Step- Sin, Random	Selects the LFO Waveform	
а	LFO Phase [degree]	-180+180	Sets the LFO phase difference between the left and right	
	LFO Frequency [Hz]	0.0220.00	Sets the speed of the LFO	
b	Src	OffTempo	Selects the modulation source commonly used for LFO speed and step speed	
	Amt	-20.00 +20.00	Sets the modulation amount of LFO speed	
_	LFO Step Freq [Hz]	0.0550.00	Sets the LFO step speed	
с	Amt	-50.00 +50.00	Sets the modulation amount of LFO step speed	
	MIDI Sync	Off, On	When this is on, the LFO speed is set by BPM, Base Note, and Times, instead of Frequency	Д ^{§ym}
d	BPM	MIDI, 40.00 300.00	MIDI syncs to the system tempo; 40– 300 sets the tempo manually for this individual effect	
	Base Note	rw	Selects the type of notes that specify the LFO speed	
	Times	x1x32	Sets the number of notes that specify the LFO speed	
_	Step Base Note	rw	Selects the type of notes to specify the LFO step speed	Дууг
e	Times	x1x32	Sets the number of notes to specify the LFO step speed	
	Manual	0100	Sets the frequency to which the effect is applied	
f	Src	OffTempo	Selects the modulation source for the LFO modulation	
	Amt	-100+100	Sets the modulation amount of the LFO modulation	
g	Depth	0100	Sets the depth of LFO modulation	
	Resonance	-100+100	Sets the resonance amount	
h	High Damp [%]	0100	Sets the resonance damping amount in the high range	
	Wet/Dry	-Wet, - 1:99Dry99:1 , Wet	Balance between the wet and dry signal	
i	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

## 38: St. Env. Phaser (Stereo Envelope Phaser)

This stereo phaser uses an envelope generator for modulation. You will obtain the same pattern of phasing each time you play. You can also control the Phaser directly using the modulation source.

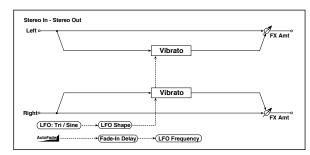


	L Manu Bottom	0100	Sets the lower limit of the frequency range for the effect on the left channel	
а	L Manu Top	0100	Sets the upper limit of the frequency range for the effect on the left channel	
b	R Manu Bottom	0100	Sets the lower limit of the frequency range for the effect on the right channel	
D	R Manu Top	0100	Sets the upper limit of the frequency range for the effect on the right channel	
	Sweep Mode	EG, D-mod	Determines whether the flanger is controlled by the envelope generator or by the modulation source	
с	Src	OffTempo	Selects the modulation source that triggers the EG (when EG is selected for Sweep Mode), or modulation source that causes the flanger to sweep (when D-mod is selected for Sweep Mode)	
	EG Attack	1100	Sets the EG attack speed	
d	EG Decay	1100	Sets the EG decay speed	
e	Resonance	-100+100	Sets the resonance amount	
f	High Damp [%]	0100	Sets the resonance damping amount in the high range	
	Wet/Dry	-Wet, - 1:99Dry99:1 , Wet	Balance between the wet and dry signal	
g	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

# Modulation and Pitch Shift (Mod./P.Shift)

## 39: Stereo Vibrato

This effect causes the pitch of the input signal to shimmer. Using the AutoFade allows you to increase or decrease the shimmering speed.



a	AUTOFADE Src	OffTempo	Selects the modulation source that starts AutoFade	
	Fade-In Delay [msec]	002000	Sets the fade-in delay time	
b	Fade-In Rate	1100	Sets the rate of fade-in	
	LFO Waveform	Triangle, Sine	Selects the LFO Waveform	
c	LFO Shape	-100+100	Changes the curvature of the LFO Waveform	
d	LFO Frequency Mod	D-mod, AUTOFADE	Switches between D-mod and AUTOFADE for the LFO frequency modulation	
	LFO Frequency [Hz]	0.0220.00	Sets the speed of the LFO	
e	Src	OffTempo	Selects a modulation source for LFO speed	
	Amt	-20.00 +20.00	Sets the modulation amount of LFO speed	
	MIDI Sync	Off, On	When this is on, the LFO speed is set by BPM, Base Note, and Times, instead of Frequency	Ą
f	BPM	MIDI, 40.00 300.00	MIDI syncs to the system tempo; 40– 300 sets the tempo manually for this individual effect	
	Base Note	rw	Selects the type of notes that specify the LFO speed	
	Times	x1x32	Sets the number of notes that specify the LFO speed	
	Depth	0100	Sets the depth of LFO modulation	
g	Src	OffTempo	Selects the modulation source of the LFO modulation depth	
	Amt	-100+100	Sets the modulation amount of the LFO modulation depth	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
h	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

#### a: AUTOFADE Src b: Fade-In Delay [msec] b: Fade-In Rate d: LFO Frequency Mod

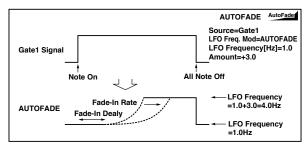
When "LFO Frequency Mod" is set to AUTOFADE, you can use the modulation source selected in "AUTOFADE Src" as a trigger to automatically fade in the modulation amount. When "MIDI Sync" is set to On, you cannot use this.

The "Fade-In Rate" parameter specifies the rate of fade-in. The "Fade-In Delay" parameter determines the time from AutoFade modulation source On until the fade-in starts.

The following is an example of fade-in where the LFO speed is increased from "1.0Hz" to "4.0Hz" when a note-on message is received.

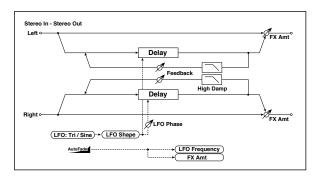
AUTOFADE Src=Gate1, LFO Frequency Mod=AUTOFADE, LFO Frequency [Hz]=1.0, Amt=3.0

The effect is off when a value for the dynamic modulation source specified for the "AUTOFADE Src" parameter is smaller than 64, and the effect is on when the value is 64 or higher. The AutoFade function is triggered when the value changes from 63 or smaller to 64 or higher.



## 40: St. Auto Fade Mod. (Stereo Auto Fade Modulatiom)

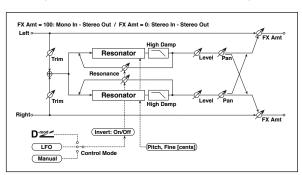
This stereo chorus/flanger effect enables you to control the LFO speed and effect balance using auto fade, and you can spread the sound by offsetting the phase of the left and right LFOs from each other.



	AUTOFADE Src	OffTempo	Selects the modulation source that starts AutoFade	
а	Fade-In Delay [msec]	002000	Sets the fade-in delay time	
	Rate	1100	Sets the rate of fade-in	
b	LFO Frequency Mod	D-mod, AUTOFADE	Switches between D-mod and AUTOFADE for the LFO frequency modulation	
d	Wet/Dry Mod	D-mod, AUTOFADE	Switches between D-mod and AUTOFADE for the effect balance modulation	
	LFO Waveform	Triangle, Sine	Selects the LFO Waveform	
c	LFO Shape	-100+100	Changes the curvature of the LFO Waveform	
d	LFO Phase [degree]	-180+180	Sets the LFO phase difference between the left and right	
	LFO Frequency [Hz]	0.0220.00	Sets the speed of the LFO	
e	Src	OffTempo	Selects a modulation source for LFO speed	
	Amt	-20.00 +20.00	Sets the modulation amount of LFO speed	
f	L Delay Time [msec]	0.0500.0	Sets the left channel delay time	
1	R Delay Time [msec]	0.0500.0	Sets the right channel delay time	
g	Depth	0200	Sets the depth of LFO modulation	
	Feedback	-100+100	Sets the feedback amount	
h	High Damp [%]	0100	Sets the feedback damping amount in the high range	
	Wet/Dry	-Wet, - 1:99Dry99:1 , Wet	Balance between the wet and dry signal	
i	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

## 41: 2Voice Resonator

This effect resonates the input signal at a specified pitch. You can set the pitch, output level, and pan settings for two resonators individually. You can control the resonance intensity via an LFO.



r				
а	Control Mode	Manual, LFO, D-mod	Switches the controls of resonance intensity	
a	LFO/D-mod Invert	Off, On	Reverses the Voice 1 and 2 control when LFO/D-mod is selected	
b	LFO Frequency [Hz]	0.0220.00	Sets the speed of the LFO	
ŭ	D-mod Src	OffTempo	Selects the modulation source that controls resonance intensity	
	MIDI Sync	Off, On	When this is on, the LFO speed is set by BPM, Base Note, and Times, instead of Frequency	ц Т
с	BPM	MIDI, 40.00 300.00	MIDI syncs to the system tempo; 40– 300 sets the tempo manually for this individual effect	
	Base Note	rw	Selects the type of notes that specify the LFO speed	
	Times	x1x32	Sets the number of notes that specify the LFO speed	
d	Mod. Depth	-100+100	Sets the amount of resonance intensity control via LFO/D-mod	
	Trim	0100	Sets the input level at the resonator	
	Voice1: Pitch	C0B8	Sets the voice1 Pitch for resonance	
e	Fine [cents]	-50+50	Fine-adjusts the voice 1 pitch for resonance	
	Level	0100	Sets the Voice1 output level	
	Voice1: Resonance	-100+100	Sets the intensity of resonance when Control Mode = Manual	
f	High Damp [%]	0100	Sets the damping amount of resonant sound in the high range	
	Pan	L6L1, C, R1R6	Sets the Voice1 stereo image	
	Voice2: Pitch	C0B8	Sets the voice 2 Pitch for resonance	
g	Fine [cents]	-50+50	Fine-adjusts the voice 2 pitch for resonance	
	Level	0100	Sets the Voice2 output level	
	Voice2: Resonance	-100+100	Sets the intensity of resonance when Control Mode = Manual	
h	High Damp [%]	0100	Sets the damping amount of resonant sound in the high range	
	Pan	L6L1, C, R1R6	Sets the Voice2 stereo image	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
i	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

#### a: Control Mode f: Voice 1: Resonance h: Voice 2: Resonance

This parameter determines the resonance intensity.

When "Control Mode" = Manual, the "Resonance" parameter sets the intensity of resonance. If the "Resonance" parameter has a negative value, harmonics will be changed, and resonance will occur at a pitch one octave lower.

When "Control Mode" = LFO, the intensity of resonance varies according to the LFO. The LFO sways between positive and negative values, causing resonance to occur between specified pitches an octave apart in turn.

When "Control Mode" = D-mod, the resonance is controlled by the dynamic modulation source. If JS X or Ribbon is assigned as the modulation source, the pitch an octave higher and lower can be controlled, similar to when LFO is selected for Control Mode.

#### a: LFO/D-mod Invert

When "Control Mode" = LFO or D-mod, the controlled phase of either Voice 1 or 2 will be reversed. When the resonance pitch is set for Voice 1 (Resonance has a positive value), Voice 2 will resonate at a pitch an octave below (Resonance has a negative value).

#### f: Voice 1: Pitch f: Fine [cents] h: Voice 2: Pitch h: Fine [cents]

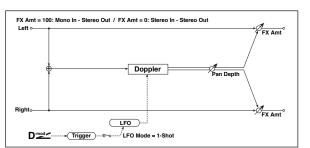
The Pitch parameter specifies the pitch of resonance by note name. The "Fine" parameter allows for fine adjustment in steps of cents.

#### g: High Damp [%] i: High Damp [%]

This sets the amount of damping amount for the high frequencies of the resonant sound. Lower values create a metallic sound with a higher range of harmonics.

## 42: Doppler

This effect simulates the "Doppler effect" of a moving sound with a changing pitch, similar to the siren of an passing ambulance. Mixing the effect sound with the dry sound will create a unique chorus effect.



	LFO Mode	Loop, 1-Shot	Switches LFO operation mode	
а	Src	OffTempo	Selects the modulation source of LFO reset	
b	LFO Sync	Off, On	Switches between LFO reset on and off when LFO Mode is set to Loop	
c	LFO Frequency [Hz]	0.0220.00	Sets the speed of the LFO	
	Src	OffTempo	Selects a modulation source for LFO speed	
	Amt	-20.00 +20.00	Sets the modulation amount of LFO speed	
	MIDI Sync	Off, On	When this is on, the LFO speed is set by BPM, Base Note, and Times, instead of Frequency	Ą
d	BPM	MIDI, 40.00 300.00	MIDI syncs to the system tempo; 40– 300 sets the tempo manually for this individual effect	
	Base Note	rw	Selects the type of notes that specify the LFO speed	
	Times	x1x32	Sets the number of notes that specify the LFO speed	
	Pitch Depth	0100	Sets the pitch variation of the moving sound	
e	Src	OffTempo	Selects the modulation source of pitch variation	
	Amt	-100+100	Sets the modulation amount of pitch variation	
	Pan Depth	-100+100	Sets the panning of the moving sound	
f	Src	OffTempo	Selects the modulation source of panning	
	Amt	-100+100	Sets the modulation amount of panning	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
g	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

## a: LFO Mode

a: Src

## b: LFO Sync

The "LFO Mode" parameter switches LFO operation mode. When Loop is selected, the Doppler effect will be created repeatedly. If "LFO Sync" is set to On, the LFO will be reset when the modulation source specified with the "Src" parameter is turned on.

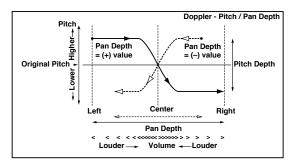
When "LFO Mode" is set to 1-Shot, the Doppler effect is created only once when the modulation source specified in the "Src" field is turned on. At this time if you do not set the "Src" parameter, the Doppler effect will not be created, and no effect sound will be output. MD The effect is off when a value for the modulation source specified for the "Src" parameter is smaller than 64, and the effect is on when the value is 64 or higher. The Doppler effect is triggered when the value changes from 63 or smaller to 64 or higher.

#### e: Pitch Depth

With the Doppler effect, the pitch is raised when the sound approaches, and the pitch is lowered when the sound goes away. This parameter sets this pitch variation.

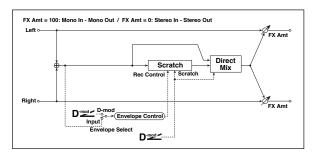
#### f: Pan Depth

This parameter sets the width of the stereo image of the effect sound. With larger values, the sound seems to come and go from much further away. With positive values, the sound moves from left to right; with negative values, the sound moves from right to left.



## 43: Scratch

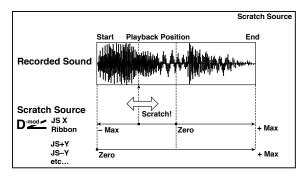
This effect is applied by recording the input signal and moving the modulation source. It simulates the sound of scratches you can make using a turntable.



а	Scratch Source	OffTempo	Selects the modulation source for simulation control	
b	Response	0100	Sets the speed of the response to the Scratch Src	
с	Envelope Select	D-mod, Input	Selects whether the start and end of recording is controlled via the modulation source or the input signal level	
	Src	OffTempo	Selects the modulation source that controls recording when Envelope Select is set to D-mod	
d	Threshold	0100	Sets the recording start level when Envelope Select is set to Input	
e	Response	0100	Sets the speed of the response to the end of recording	
f	Direct Mix	Always On, Always Off, Cross Fade	Selects how a dry sound is mixed	
g	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

#### a: Scratch Source b: Response

The Scratch Source parameter enables you to select the modulation source that controls simulation. The value of the modulation source corresponds to the playback position. The Response parameter enables you to set the speed of the response to the modulation source.



#### c: Envelope Select c: Src d: Threshold

When "Envelope Select" is set to D-mod, the input signal will be recorded only when the modulation source value is 64 or higher.

When "Envelope Select" is set to Input, the input signal will be recorded only when its level is over the Threshold value.

The maximum recording time is 2,730msec. If this is exceeded, the recorded data will start being erased from the top.

#### e: Response

This parameter enables you to set the speed of the response to the end of recording. Set a smaller value when you are recording a phrase or rhythm pattern, and set a higher value if you are recording only one note.

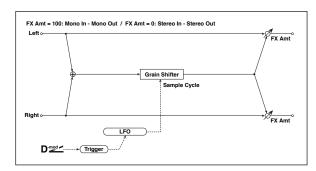
#### f: Direct Mix

With Always On, a dry sound is usually output. With Always Off, dry sounds are not output. With Cross Fade, a dry sound is usually output, and it is muted only when scratching.

Set Wet/Dry to 100 to use this parameter effectively.

## 44: Grain Shifter

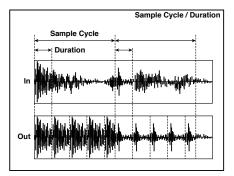
This effect cuts extremely short samples ("grains") from the input signal waveform and plays them repeatedly, giving a mechanical character to the sound.



	i		i	
а	Duration	0100	Sets the duration of the grain	
	Src	OffTempo	Selects the source that will modulate the duration of the grain	
	Amt	-100+100	Sets the amount by which the grain duration will be modulated	
b	LFO Sync Src	OffTempo	Selects the modulation source that will reset the LFO	
с	LFO Sample Cycle [Hz]	0.0220.00	Sets the frequency at which the grain will be switched	
	Src	OffTempo	Selects a modulation source for LFO speed	
	Amt	-20.00 +20.00	Sets the modulation amount of LFO speed	
d	MIDI Sync	Off, On	When this is on, the LFO speed is set by BPM, Base Note, and Times, instead of Frequency	<u>₩</u>
	BPM	MIDI, 40.00 300.00	MIDI syncs to the system tempo; 40– 300 sets the tempo manually for this individual effect	
	Base Note	rw	Selects the type of notes that specify the LFO speed	
	Times	x1x32	Sets the number of notes that specify the LFO speed	
e	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

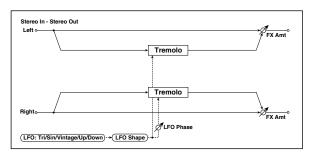
#### a: Duration c: LFO Sample Cycle [Hz]

**Duration** sets the length of the sampled grain, and the LFO **Sample Cycle** controls how often a new grain is sampled. In between Sample Cycles, the current grain is repeated continuously.



### 45: Stereo Tremolo

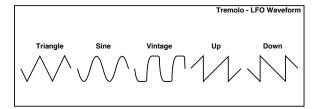
This effect modulates the volume level of the input signal. The effect is stereo, and offsetting the LFO of the left and right phases from each other produces a tremolo effect between left and right.



а	LFO Waveform	Triangle, Sine, Vintage, Up, Down	Selects the LFO Waveform	
	LFO Shape	-100+100	Changes the curvature of the LFO Waveform	
b	LFO Phase [degree]	-180+180	Sets the LFO phase difference between the left and right	
	LFO Frequency [Hz]	0.0220.00	Sets the speed of the LFO	
с	Src	OffTempo	Selects a modulation source for LFO speed	
	Amt	-20.00 +20.00	Sets the modulation amount of LFO speed	
	MIDI Sync	Off, On	When this is on, the LFO speed is set by BPM, Base Note, and Times, instead of Frequency	Ą
d	BPM	MIDI, 40.00 300.00	MIDI syncs to the system tempo; 40– 300 sets the tempo manually for this individual effect	
	Base Note	rw	Selects the type of notes that specify the LFO speed	
	Times	x1x32	Sets the number of notes that specify the LFO speed	
	Depth	0100	Sets the depth of LFO modulation	
e	Src	OffTempo	Selects the modulation source of the depth of modulation	
	Amt	-100+100	Sets the modulation amount of the depth of modulation	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
f	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

#### a: LFO Waveform

This parameter sets the basic shape of the LFO. The **Vintage** waveform models classic guitar-amp tremolo.

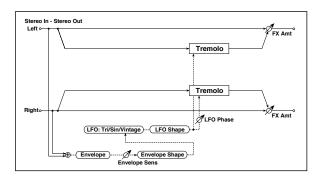


#### b: LFO Phase [degree]

This parameter determines the difference between the left and right LFO phases. A higher value will simulate the auto-pan effect in which the sound is panned between left and right.

### 46: St. Env. Tremolo (Stereo Envelope Tremolo)

This effect uses the input signal level to modulate a stereo tremolo (LFO volume modulation). For instance, you can create a tremolo effect that becomes deeper and faster as the input gets more quiet.



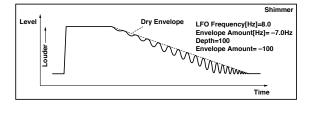
	Envelope Sens	0100	Sets the envelope's sensitivity to the input signal	
а	Envelope Shape	-100+100	Sets the envelope's curvature	
b	LFO Waveform	Triangle, Sine, Vintage	Selects the LFO Waveform	
D	LFO Shape	-100+100	Changes the curvature of the LFO Waveform	
с	LFO Phase [degree]	-180+180	Sets the LFO phase difference between the left and right	
	LFO Frequency [Hz]	0.0220.00	Sets the speed of the LFO	
d	Envelope Amount [Hz]	-20.00 +20.00	Sets the amount added to or subtracted from the Frequency when the envelope is at maximum	
	Depth	0100	Sets the initial amount of tremolo	
e	Envelope Amount	-100+100	Sets the amount added to or subtracted from the Depth when the envelope is at maximum	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
f	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

### d: LFO Frequency [Hz] d: Envelope Amount [Hz] e: Depth

e: Envelope Amount

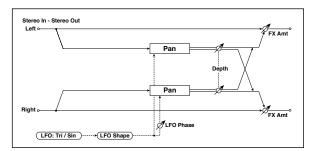
The graphic below shows an example of tremolo modulation with negative modulation of both **Depth** and **Frequency**. At the start of the note, the input is at maximum volume. This slows down the LFO **Frequency** to **1.0Hz**, but also modulates the **Depth** to **0**-so the tremolo doesn't have any effect.

As the input volume dies down, the **Frequency** speeds up; the **Depth** also increases, making the tremolo effect increasingly audible. When the input volume approaches silence, the **Depth** is at its maximum (**100**) and **Frequency** is at **8Hz**.



### 47: Stereo Auto Pan

This is a stereo-in, stereo-out auto-panner. The Phase and Shape parameters lets you create various panning effects, such as making the left and right inputs seem to chase each other around the stereo field.



. <u> </u>				-
	LFO Waveform	Triangle, Sine	Selects the LFO Waveform	
а	LFO Shape	-100+100	Changes the curvature of the LFO Waveform	
b	LFO Phase [degree]	-180+180	Sets the LFO phase difference between the left and right	
	LFO Frequency [Hz]	0.0220.00	Sets the speed of the LFO	
с	Src	OffTempo	Selects a modulation source for LFO speed	
	Amt	-20.00 +20.00	Sets the modulation amount of LFO speed	
	MIDI Sync	Off, On	When this is on, the LFO speed is set by BPM, Base Note, and Times, instead of Frequency	d∰ ∭
d	ВРМ	MIDI, 40.00 300.00	MIDI syncs to the system tempo; 40– 300 sets the tempo manually for this individual effect	
	Base Note	rw	Selects the type of notes that specify the LFO speed	
	Times	x1x32	Sets the number of notes that specify the LFO speed	
	Depth	0100	Sets the depth of LFO modulation	
e	Src	OffTempo	Selects the modulation source of the depth of modulation	
	Amt	-100+100	Sets the modulation amount of the depth of modulation	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
f	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

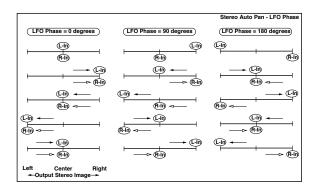
#### a: LFO Shape

You can change the panning curve by modifying the LFO's Shape.

#### b: LFO Phase [degree]

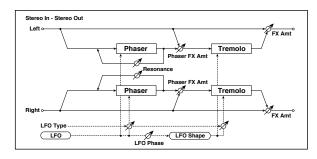
This determines the phase difference between the left and right LFOs. When you gradually change the value away from 0, the sounds from the left and right channels will seem to chase each other around. If you set the parameter to +180 or -180, the sounds from each channel will cross over each other.

You'll only hear the effect of this parameter if the input is true stereo, with different signals in the left and right channels.



### 48: St. Phaser + Trml (Stereo Phaser + Tremolo)

This effect combines a stereo phaser and tremolo, with linked LFOs. Swelling phaser modulation and tremolo effects synchronize with each other, creating a soothing modulation effect particularly suitable for electric piano.



а	Type LFO Phase	Phs - Trml,  Phs LR - Trml LR	Selects the type of the tremolo and phaser LFOs Phaser - Tremolo, Phaser - Tremolo Spin, Phaser - Tremolo LR, Phaser LR - Tremolo, Phaser LR - Tremolo Spin, Phaser LR - Tremolo LR Sets the phase difference between	
	[degree]	-180+180	the tremolo and phaser LFOs	
	LFO Frequency [Hz]	0.0220.00	Sets the speed of the LFO	
b	Src	OffTempo	Selects a modulation source for LFO speed	
	Amt	-20.00 +20.00	Sets the LFO speed modulation amount	
	MIDI Sync	Off, On	When this is on, the LFO speed is set by BPM, Base Note, and Times, instead of Frequency	<b>D</b> ∰
с	BPM	MIDI, 40.00 300.00	MIDI syncs to the system tempo; 40– 300 sets the tempo manually for this individual effect	
	Base Note	rw	Selects the type of notes that specify the LFO speed	
	Times	x1x32	Sets the number of notes that specify the LFO speed	
d	Phaser Manual	0100	Sets the phaser frequency range	
u	Resonance	-100+100	Sets the phaser resonance amount	
	Phaser Depth	0100	Sets the phaser modulation depth	
e	Src	OffTempo	Selects the modulation source for the phaser modulation depth	
	Amt	-100+100	Sets the modulation amount for the phaser modulation depth	
f	Phaser Wet/ Dry	–Wet, –2 : 98Dry 2 : 98, Wet	Sets the balance between the phaser effect and dry sounds	
g	Tremolo Shape	-100+100	Sets the degree of the tremolo LFO shaping	
	Tremolo Depth	0100	Sets the tremolo modulation depth	
h	Src	OffTempo	Selects the modulation source for the tremolo modulation depth	
	Amt	-100+100	Sets the modulation amount of the tremolo modulation depth	

	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
i	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

### a: Type a: LFO Phase [degree]

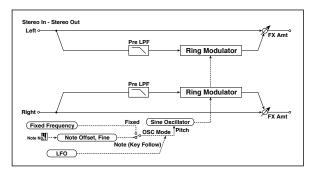
Select the type of phaser LFO and tremolo LFO for the "Type" parameter. How the effect sound moves or rotates depends on the type of LFO. Selecting "LFO Phase" enables you to offset the timing of the phaser peak and control a subtle movement and rotation of the sound.

#### f: Phaser Wet/Dry i: Wet/Dry

**PHASER Wet/Dry** sets the balance between the phaser output and the dry sound. **OUTPUT Wet/Dry** sets the balance between the final phaser and tremolo output level and the dry sound.

### 49: St. Ring Modulator (Stereo Ring Modulator)

This effect creates a metallic sound by applying the oscillators to the input signal. Use the LFO or Dynamic Modulation to modulate the oscillator to create a radical modulation. Matching the oscillator frequency with a note number will produce a ring modulation effect in specific key ranges.



	OSC Mode	Fixed, Note (Key Follow)	Switching between specifying the oscillator frequency and using a note number	
а	Pre LPF	0100	Sets the damping amount of the high range input to the ring modulator	
	Fixed Frequency [Hz]	012.00k	Sets the oscillator frequency when OSC Mode is set to Fixed	
b	Src	OffTempo	Selects the modulation source for the oscillator frequency when OSC Mode is set to Fixed	
	Amt	-12.00k +12.00k	Sets the modulation amount of the oscillator frequency when OSC Mode is set to Fixed	
с	Note Offset	-48+48	Sets the pitch difference from the original note when OSC Mode is set to Note (Key Follow)	
	Note Fine	-100+100	Fine-adjusts the oscillator frequency	
	LFO Frequency [Hz]	0.0220.00	Sets the speed of the LFO	
d	Src	OffTempo	Selects a modulation source for LFO speed	
	Amt	-20.00 +20.00	Sets the modulation amount of LFO speed	

	MIDI Sync	Off, On	When this is on, the LFO speed is set by BPM, Base Note, and Times, instead of Frequency	Ð
e	BPM	MIDI, 40.00 300.00	MIDI syncs to the system tempo; 40– 300 sets the tempo manually for this individual effect	
	Base Note	rw	Selects the type of notes that specify the LFO speed	
	Times	x1x32	Sets the number of notes that specify the LFO speed	
	LFO Depth	0100	Sets the depth of LFO modulation for the oscillator frequency	
f	Src	OffTempo	Selects the modulation source of the depth of modulation	
	Amt	-100+100	Sets the modulation amount of the depth of modulation	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
g	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

#### a: OSC Mode

This parameter determines whether or not the oscillator frequency follows the note number.

#### a: Pre LPF

This parameter enables you to set the damping amount of the high range sound input to the ring modulator. If the input sound contains lots of harmonics, the effect may sound dirty. In this case, cut a certain amount of high range.

### b: Fixed Frequency [Hz]

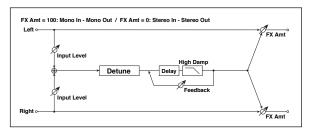
This parameter sets the oscillator frequency when "OSC Mode" is set to Fixed.

#### c: Note Offset c: Note Fine

These parameters for the oscillator are used when "OSC Mode" is set to Note (Key Follow). The "Note Offset" sets the pitch difference from the original note in semitone steps. The "Note Fine" parameter fine-adjusts the pitch in cent steps. Matching the oscillator frequency with the note number produces a ring modulation effect in the correct key.

### 50: Detune

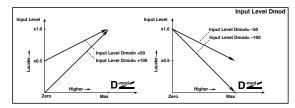
Using this effect, you can obtain a detune effect that offsets the pitch of the effect sound slightly from the pitch of the input signal. Compared to the chorus effect, a more natural sound thickness will be created.



Ī		Pitch Shift [cents]	-100+100	Sets the pitch difference from the input signal	
	а	Src	OffTempo	Selects a modulation source for pitch shift	
		Amt	-100+100	Sets the modulation amount for pitch shift	
	b	Delay Time [msec]	01000	Sets the delay time	
Ī		Feedback	-100+100	Sets the feedback amount	
	с	High Damp [%]	0100	Sets the damping amount in the high range	
Ī	d	Input Level Dmod [%]	-100+100	Sets the modulation amount of the input level	
	u	Src	OffTempo	Selects the modulation source for the input level	
Ī		Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
	e	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
		Amt	-100+100	Amount of modulation source	

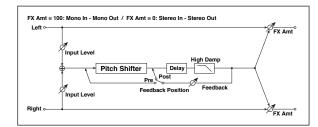
#### d: Input Level Dmod [%] d: Src

This parameter sets the dynamic modulation of the input level.



# 51: Pitch Shifter

This effect changes the pitch of the input signal. You can select from three types: Fast (quick response), Medium, and Slow (preserves tonal quality). You can also create an effect in which the pitch is gradually raised (or dropped) using the delay with feedback.



r			r
а	Mode	Slow, Medium, Fast	Switches Pitch Shifter mode
	Pitch Shift [1/ 2tone]	-24+24	Sets the pitch shift amount by steps of a semitone
b	Src	OffTempo	Selects the modulation source of pitch shift amount
	Amt	-24+24	Sets the modulation amount of pitch shift amount
c	Fine [cents]	-100+100	Sets the pitch shift amount by steps of a cent
Ĺ	Amt	-100+100	Sets the modulation amount of pitch shift amount
d	Delay Time [msec]	02000	Sets the delay time
e	Feedback Position	Pre, Post	Switches the feedback connection
f	Feedback	-100+100	Sets the feedback amount
1	High Damp [%]	0100	Sets the damping amount in the high range
~	Input Level Dmod [%]	-100+100	Sets the modulation amount of the input level
g	Src	OffTempo	Selects the modulation source for the input level
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal
h	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366
	Amt	-100+100	Amount of modulation source

#### a: Mode

This parameter switches the pitch shifter operating mode. With Slow, tonal quality will not be changed too much. With Fast, the effect becomes a Pitch Shifter that has a quick response, but may change the tone. Medium is in-between these two. If you do not need to set too much pitch shift amount, set this parameter to Slow. If you wish to change the pitch significantly, use Fast.

#### b: Pitch Shift [1/2tone]

- b: Src b: Amt
- c: Fine [cents]

c: Amt

The amount of pitch shift will use the value of the **Pitch Shift** plus the **Fine** value. The amount of modulation will use the b: Amt value plus the c: Amt.

The same Modulation Source is used for both Pitch Shift and Fine.

#### e: Feedback Position f: Feedback

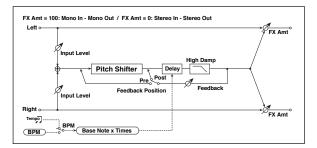
When **Feedback Position** is set to **Pre**, the pitch shifter output is again input to the pitch shifter. Therefore, if you specify a higher

value for the Feedback parameter, the pitch will be raised (or lowered) more and more each time feedback is repeated.

If **Feedback Position** is set to **Post**, the feedback signal will not pass through the pitch shifter again. Even if you specify a higher value for the **Feedback** parameter, the pitch-shifted sound will be repeated at the same pitch.

### 52: Pitch Shifter BPM

This pitch shifter enables you to set the delay time to match the song tempo.



а	Mode	Slow, Medium, Fast	Switches Pitch Shifter mode	
	Pitch Shift [1/ 2tone]	-24+24	Sets the pitch shift amount in steps of a semitone	
b	Src	OffTempo	Selects the modulation source of pitch shift amount	
	Amt	-24+24	Sets the modulation amount of pitch shift amount	
c	Fine [cents]	-100+100	Sets the pitch shift amount in steps of one cent	
C	Amt	-100+100	Sets the modulation amount of pitch shift amount	
d	BPM	MIDI, 40.00 300.00	MIDI syncs to the system tempo; 40– 300 sets the tempo manually for this individual effect	Ц Ш
	Time Over?	, OVER!	Displays an error message when the delay time exceeds the upper limit	
	Delay Base Note	rw	Selects the type of notes to specify the delay time	
e	Times	x1x32	Sets the number of notes to specify the delay time	
f	Feedback Position	Pre, Post	Switches the feedback connection	
a	Feedback	-100+100	Sets the feedback amount	
g	High Damp [%]	0100	Sets the damping amount in the high range	
h	Input Level Dmod [%]	-100+100	Sets the modulation amount of the input level	
	Src	OffTempo	Selects the modulation source for the input level	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
i	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

#### d: BPM

#### e: Times

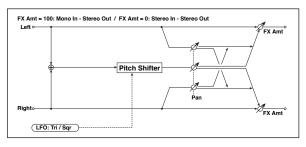
The delay time is the duration of "Times" number of "Delay Base Note" note values at the "BPM" tempo (or if "BPM" is set to MIDI, the tempo determined by MIDI Clock).

#### d: Time Over?

You can set the delay time up to 5,290msec. If the delay time exceeds this limit, the error message "OVER!" appears on the display. Set the delay time parameters so that this message will not appear. "Time Over?" is only a display parameter.

### 53: Pitch Shift Mod. (Pitch Shift Modulation)

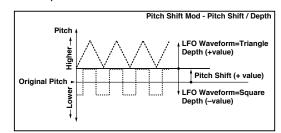
This effect modulates the detuned pitch shift amount using an LFO, adding a clear spread and width to the sound by panning the effect sound and dry sound to the left and right. This is especially effective when the effect sound and dry sound output from stereo speakers are mixed.



E.					
	а	Pitch Shift [cents]	-100+100	Sets the pitch difference from the input signal	
	b	LFO Waveform	Triangle, Square	Selects the LFO Waveform	
		LFO Frequency [Hz]	0.0220.00	Sets the speed of the LFO	
	c	Src	OffTempo	Selects a modulation source for LFO speed	
		Amt	-20.00 +20.00	Sets the modulation amount of LFO speed	
		MIDI Sync	Off, On	When this is on, the LFO speed is set by BPM, Base Note, and Times, instead of Frequency	J∰.
	d	BPM	MIDI, 40.00 300.00	MIDI syncs to the system tempo; 40– 300 sets the tempo manually for this individual effect	
		Base Note	rw	Selects the type of notes that specify the LFO speed	
		Times	x1x32	Sets the number of notes that specify the LFO speed	
		Depth	-100+100	Sets the LFO modulation depth for pitch shift amount	
	e	Src	OffTempo	Selects the modulation source of the depth of modulation	
		Amt	-100+100	Sets the modulation amount of the depth of modulation	
Ī	f	Pan	L, 1 : 9999 : 1, R	Sets the panning effect sound and dry sound separately	
Ī		Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
	g	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
		Amt	-100+100	Amount of modulation source	

#### a: Pitch Shift [cents] e: Depth

These parameters set the amount of pitch shift and amount of modulation by means of the LFO.



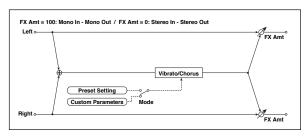
#### g: Pan h: Wet/Dry

The Pan parameter pans the effect sound and dry sound to the left and right. With L, the effect sound is panned left, and the dry sound is panned right. With a Wet/Dry = Wet setting, the effect and dry sound will be output in a proportion of 1:1.

e: Delay Base Note

### 54: Organ Vib/Chorus (Organ Vibrato/Chorus)

This effect simulates the chorus and vibrato circuitry of a vintage organ. The modulation speed and depth can be customized.



b         Control Mode         Preset, Custom         Selects either preset or custom settings           Preset Type         V1, C1, V2, C2, V3, C3         Selects the effect type when Mode=Preset V1/V2/V3 are variations of vibrato, and C1/C2/C3 are variations of	
Preset Type V1, C1, V2, C2, V3, C3 Mode=Preset V1/V2/V3 are variations of vibrato, and C1/C2/C3 are variations of	
c chorus	
Src         OffTempo         Selects the modulation source that will change the effect type	
Amt         -5+5         Sets the modulation amount for changing the effect type	
Custom Mix Vibrato, 1:9999:1, Chorus Sets the mix level of the direct sound when Mode=Preset	
d Src OffTempo Selects the modulation source that will control the mix level of the direct sound	
Amt –100+100 Sets the modulation amount for controlling the mix level of the direct sound	
Custom Depth 0100 Sets the vibrato depth	
e Src OffTempo Selects the modulation source that will control vibrato depth	
Amt -100+100 Sets the modulation amount for controlling the vibrato depth	
Custom Speed [Hz] 0.0220.00 Sets the vibrato speed	
f Src OffTempo Selects the modulation source for controlling the vibrato speed	
Amt         -20.00 +20.00         Sets the modulation amount for controlling the vibrato speed	
Wet/Dry         Dry, 1:9999:1, Wet         Balance between the wet and dry signal	
g Src OffTempo Table , "Dynamic Modulation sources," on page 366	

#### **b: Control Mode**

- c: Preset Type
- d: Custom Mix
- e: Custom Depth
- f: Custom Speed [Hz]

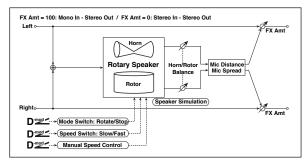
If Control Mode=Preset, you can use c: Preset Type to select the effect. In this case, the Custom Mix/Depth/Speed settings are ignored. If Control Mode=Custom, the Custom Mix/Depth/Speed settings are valid, and the c: Preset Type setting is ignored.

#### c: Amt

If Preset Type=V1 and Src=JS+Y, you can set this to +5 and move JS +Y to control the effect in the order of V1 C1 V2 C2 V3 C3.

### 55: Rotary Speaker

This effect simulates a rotary speaker, and obtains a more realistic sound by simulating the rotor in the low range and the horn in the high range separately. The effect also simulates the stereo microphone settings.



r			
	Mode Switch	Rotate, Stop	Switches between speaker rotation and stop
а	Src	OffTempo	Selects a modulation source for Rotate/Stop
	Mode	Toggle, Moment	Sets the switch mode for Rotate/ Stop modulation
	Speed Switch	Slow, Fast	Switches the speaker rotation speed between slow and fast
b	Src	OffTempo	Selects a modulation source for Slow/Fast
	Mode	Toggle, Moment	Sets the switch mode for Slow/Fast modulation
с	Manual Speed Ctrl	OffTempo	Sets a modulation source for direct control of rotation speed
	Hore Acceleration	0100	How quickly the horn rotation speed in the high range is switched
d	Hore Ratio	Stop, 0.502.00	Adjusts the (high-range side) horn rotation speed. Standard value is 1.00. Selecting "Stop" will stop the rotation
	Rotor Acceleration	0100	Determines how quickly the rotor rotation speed in the low range is switched
e	Rotor Ratio	Stop, 0.502.00	Adjusts the (low-frequency) rotor speed. Standard value is 1.00. Selecting "Stop" will stop the rotation
f	Horn/Rotor Balance	Rotor, 199, Horn	Sets the level balance between the high-frequency horn and low- frequency rotor
_	Mic Distance	0100	Sets the distance between the microphone and rotary speaker
g	Mic Spread	0100	Sets the angle of left and right microphones
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal
h	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366
	Amt	-100+100	Amount of modulation source

#### a: Mode

This parameter sets how the modulation source switches between rotation and stop.

When **Mode** = **Toggle**, the speaker rotates or stops alternately each time you press the pedal or move the joystick. Via MIDI, rotation will switch between start and stop each time the modulation amount exceeds 64.

When **Mode** = **Moment**, the speaker rotates by default, and stops only when you press the pedal or move the joystick. Via MIDI, modulation values above 64 make the speaker rotate, and values below 64 make it stop.

#### **b: Speed Switch**

This parameter controls how the rotation speed (slow and fast) is switched via the modulation source.

When **Mode** = **Toggle**, the speed will switch between slow and fast each time you press the pedal or move the joystick. Via MIDI, the speed will switch each time the modulation amount exceeds 64.

When **Mode** = **Moment**, the speed is usually slow. It becomes fast only when you press the pedal or move the joystick. Via MIDI, modulation values above 64 set the speed to **Fast**, and values below 64 set it to **Slow**.

#### c: Manual Speed Ctrl

If you wish to control the rotation speed manually, instead of switching between Slow and Fast, select a modulation source in the **Manual Speed Ctrl** parameter. If you don't want to use manual control, set this to **Off**.

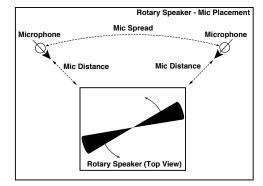
#### d: Horn Acceleration

#### e: Rotor Acceleration

On a real rotary speaker, the rotation speed accelerates or decelerates gradually after you switch the speed. The **Horn** and **Rotor Acceleration** parameters set the transition times between fast and slow speeds.

#### g: Mic Distance g: Mic Spread

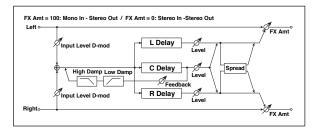
This is a simulation of stereo microphone settings.



# Delay

### 56: L/C/R Delay

This multitap delay outputs three Tap signals to the left, right, and center respectively. You can also adjust the left and right spread of the delay sound.



	-	-		
а	L Delay Time [msec]	02730	Sets the delay time of TapL	
	Level	050	Sets the output level of TapL	
b	C Delay Time [msec]	02730	Sets the delay time of TapC	
	Level	050	Sets the output level of TapC	
с	R Delay Time [msec]	02730	Sets the delay time of TapR	
	Level	050	Sets the output level of TapR	
	Feedback (C Delay)	-100+100	Sets the feedback amount of TapC	
d	Src	OffTempo	Selects the modulation source of the TapC feedback amount	
	Amt	-100+100	Sets the modulation amount of the TapC feedback amount	
	High Damp [%]	0100	Sets the damping amount in the high range	
e	Low Damp [%]	0100	Sets the damping amount in the low range	
f	Input Level Dmod [%]	-100+100	Sets the modulation amount of the input level	
	Src	OffTempo	Selects the modulation source for the input level	
g	Spread	050	Sets the width of the stereo image of the effect sound	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
h	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

#### e: High Damp [%] e: Low Damp [%]

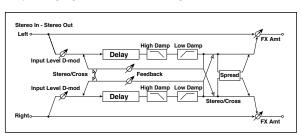
These parameters set the damping amount of high range and low range. The tone of the delayed sound becomes darker and lighter as it feeds back.

#### g: Spread

This parameter sets the pan width of the effect sound. The stereo image is widest with a value of 50, and the effect sound of both channels is output from the center with a value of 0.

### 57: Stereo/CrossDelay

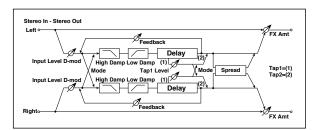
This is a stereo delay, and can by used as a cross-feedback delay effect in which the delay sounds cross over between the left and right by changing the feedback routing.



а	Stereo/Cross	Stereo, Cross	Switches between stereo delay and cross-feedback delay	
b	L Delay Time [msec]	0.01360.0	Sets the delay time for the left channel	
с	R Delay Time [msec]	0.01360.0	Sets the delay time for the right channel	
	L Feedback	-100+100	Sets the feedback amount for the left channel	
d	Src	OffTempo	Selects the modulation source of feedback amount	
	Amt L	-100+100	Sets the modulation amount of the left channel feedback	
e	R Feedback	-100+100	Sets the feedback amount for the right channel	
C	Amt R	-100+100	Sets the modulation amount of the right channel feedback	
f	High Damp [%]	0100	Sets the damping amount in the high range	
g	Low Damp [%]	0100	Sets the damping amount in the low range	
h	Input Level Dmod [%]	-100+100	Sets the modulation amount of the input level	
	Src	OffTempo	Selects the modulation source for the input level	
i	Spread	-50+50	Sets the width of the stereo image of the effect sound	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
j	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

# 58: St. Multitap Delay (Stereo Multitap Delay)

The left and right Multitap Delays have two taps respectively. Changing the routing of feedback and tap output allows you to create various patterns of complex effect sounds.



а	Mode	Normal, Cross Feedback, Cross Pan1, Cross Pan2	Switches the left and right delay routing	
b	Tap1 Time [msec]	0.01360.0	Sets the Tap1 delay time	
с	Tap2 Time [msec]	0.01360.0	Sets the Tap2 delay time	
d	Tap1 Level	0100	Sets the Tap1 output level	
	Feedback (Tap2)	-100+100	Sets the Tap2 feedback amount	
e	Src	OffTempo	Selects the modulation source of the Tap2 feedback amount	
	Amt	-100+100	Sets the modulation amount of the Tap2 feedback amount	
f	High Damp [%]	0100	Sets the damping amount in the high range	
g	Low Damp [%]	0100	Sets the damping amount in the low range	
h	Input Level Dmod [%]	-100+100	Sets the modulation amount of the input level	
	Src	OffTempo	Selects the modulation source for the input level	
	Spread	-100+100	Sets the width of the stereo image of the effect sound	
i	Src	OffTempo	Selects the modulation source of the effect sound's stereo image width	
	Amt	-100+100	Sets the modulation amount of the effect sound's stereo image width	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
j	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
[	Amt	-100+100	Amount of modulation source	

Mode: Normal	Mode: Cross Feedback	Mode: Cross Pan1	Mode: Cross Pan2
Vennege		Venneg	Vy-cocy-7

#### a: Mode

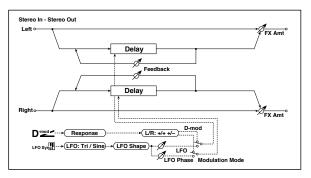
You can change how the left and right delay signals are panned by modifying the routing of the left and right delay as shown in the figure above. You need to input different sounds to each channel in order for this parameter to be effective.

#### d: Tap1 Level

This parameter sets the output level of Tap1. Setting a different level from Tap2 will add a unique touch to a monotonous delay and feedback.

### 59: St. Mod Delay (Stereo Modulation Delay)

This stereo delay uses an LFO to sweep the delay time. The pitch also varies, creating a delay sound which swells and shimmers. You can also control the delay time using a modulation source.



			1	
а	Modulation Mode	LFO, D-mod	Switches between LFO modulation control and modulation source control	
	D-mod Modulation	L/R:+/+, L/R:+/-	Reversed L/R control by modulation source	
b	Src	OffTempo	Selects the modulation source that controls delay time	
	Response	030	Sets the rate of response to the modulation source	
	LFO Waveform	Triangle, Sine	Selects the LFO Waveform	
с	LFO Shape	-100+100	Changes the curvature of the LFO Waveform	
d	LFO Sync	Off, On	Switches LFO reset off/on	
u	Src	OffTempo	Selects the modulation source that resets the LFO	
e	LFO Frequency [Hz]	0.0220.00	Sets the speed of the LFO	
	MIDI Sync	Off, On	When this is on, the LFO speed is set by BPM, Base Note, and Times, instead of Frequency	<u>a</u>
f	BPM	MIDI, 40.00 300.00	MIDI syncs to the system tempo; 40– 300 sets the tempo manually for this individual effect	
	Base Note	rw	Selects the type of notes that specify the LFO speed	
	Times	x1x32	Sets the number of notes that specify the LFO speed	
g	L LFO Phase [deg]	-180+180	Sets the phase obtained when the left LFO is reset	
y	L Depth	0200	Sets the depth of the left LFO modulation	
h	R LFO Phase [deg]	-180+180	Sets the phase obtained when the right LFO is reset	
	R Depth	0200	Sets the depth of the right LFO modulation	
i	L Delay Time [msec]	0.01000.0	Sets the delay time for the left channel	
	L Feedback	-100+100	Sets the feedback amount of left delay	
j	R Delay Time [msec]	0.01000.0	Sets the delay time for the right channel	
,	R Feedback	-100+100	Sets the feedback amount of right delay	
Ŀ	Wet/Dry	-Wet, - 1:99Dry99:1 , Wet	Balance between the wet and dry signal	
k	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

#### **b: D-mod Modulation**

When the modulation source is used for control, this parameter reverses the left and right modulation direction.

d: LFO Sync
d: Src
g: L LFO Phase [deg]
h: R LFO Phase [deg]

If "LFO Sync" is On, the LFO will be reset by the modulation source that is received.

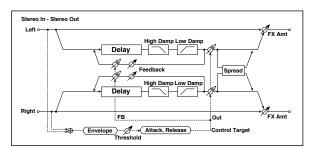
The "Src" parameter sets the modulation source that resets the LFO. For example, you can assign Gate as a modulation source so that the sweep always starts from the specified point.

"L LFO Phase" and "R LFO Phase" set the phase obtained when the left and right LFOs are reset. In this way, you can create changes in pitch sweep for the left and right channels individually.

MD The effect is off when a value of the modulation source specified in the "Src" parameter is 63 or smaller, and the effect is on when the value is 64 or higher. The LFO is triggered and reset to the "L LFO Phase" and "R LFO Phase" settings when the value changes from 63 or smaller to 64 or higher.

### 60: St. Dynamic Delay (Stereo Dynamic Delay)

This stereo delay controls the level of delay according to the input signal level. You can use this as a ducking delay that applies delay to the sound only when you play keys at a high velocity or only when the volume level is low.



_			· · · · · · · · · · · · · · · · · · ·	
а	Control Target	None, Out, FB	Selects from no control, output, and feedback	
	Polarity	+, -	Reverses level control	
b	Threshold	0100	Sets the level to which the effect is applied	
	Offset	0100	Sets the offset of level control	
с	Attack	1100	Sets the attack time of level control	
d	Release	1100	Sets the release time of level control	
e	L Delay Time [msec]	0.01360.0	Sets the delay time for the left channel	
f	R Delay Time [msec]	0.01360.0	Sets the delay time for the right channel	
g	Feedback	-100+100	Sets the feedback amount	
h	High Damp [%]	0100	Sets the damping amount in the high range	
	Low Damp [%]	0100	Sets the damping amount in the low range	
i	Spread	-100+100	Sets the width of the stereo image of the effect sound	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
j	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

#### a: Control Target

This parameter selects no level control, delay output control (effect balance), or feedback amount control.

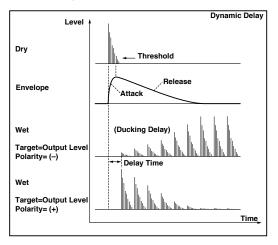
a: Polarity b: Threshold b: Offset c: Attack d: Release

The "Offset" parameter specifies the value for the "Control Target" parameter (that is set to None), expressed as the ratio relative to the parameter value (the "Wet/Dry" value with "Control Target"=Output level, or the "Feedback" value with "Control Target"=Feedback).

When "Polarity" is positive, the "Control Target" value is obtained by multiplying the parameter value by the "Offset" value (if the input level is below the threshold), or equals the parameter value if the input level exceeds the threshold.

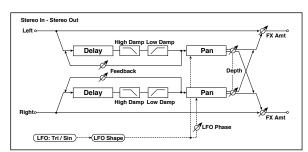
When "Polarity" is negative, Control Target value equals the parameter value if the input level is below the threshold, or is obtained by multiplying the parameter value by the "Offset" value if the level exceeds the threshold.

The "Attack" and "Release" parameters specify attack time and release time of delay level control.



### 61: St. AutoPanningDly (Stereo Auto Panning Delay)

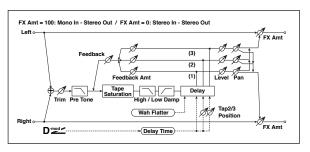
This stereo delay effect pans the delay sound left and right using the LFO.



-				
а	L Delay Time [msec]	0.01360.0	Sets the delay time for the left channel	
d	L Feedback	-100+100	Sets the feedback amount for the left channel	
b	R Delay Time [msec]	0.01360.0	Sets the delay time for the right channel	
D	R Feedback	-100+100	Sets the feedback amount for the right channel	
с	High Damp [%]	0100	Sets the damping amount in the high range	
Ĺ	Low Damp [%]	0100	Sets the damping amount in the low range	
	LFO Waveform	Triangle, Sine	Selects the LFO Waveform	
d	LFO Shape	-100+100	Changes the curvature of the LFO Waveform	
e	Phase [degree]	-180+180	Sets the LFO phase difference between the left and right	
f	Panning Freq [Hz]	0.0220.00	Sets the panning speed	
	MIDI Sync	Off, On	Switches between using the frequency of the panning speed and using the tempo and notes	J∰ B
	BPM	MIDI, 40.00 300.00	MIDI syncs to the system tempo; 40– 300 sets the tempo manually for this individual effect	
g	Base Note	rw	Selects the type of notes to specify the delay time for the panning speed	
	Times	x1x32	Sets the number of notes to specify the delay time for the panning speed	
	Panning Depth	0100	Sets the panning width	
h	Src	OffTempo	Selects the modulation source for the panning width	
	Amt	-100+100	Set the modulation amount of the panning width	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
i	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

### 62: Tape Echo

This effect simulates a tape echo unit with three playback heads. The distortion and tonal change typical of magnetic tape are also reproduced.



	Delay (Tap1) [msec]	02700	Sets the delay time (tap1)	
а	Src	OffTempo	Selects the modulation source of the delay time	
	Amt	-2700 +2700	Sets the modulation amount of delay time	
b	Tap2 Position [%]	0100	Sets the position of Tap 2 relative to the Tap 1 delay time the depth of pitch variation	
c	Tap3 Position [%]	0100	Sets the position of Tap 3 relative to the Tap 1 delay time the depth of pitch variation	
	Tap1 Level	0100	Sets the Tap1 output level	
d	Pan	L, 199, R	Sets the stereo image of tap1	
	FB Amt	-100+100	Sets the Tap1 feedback amount	
	Tap2 Level	0100	Sets the Tap2 output level	
e	Pan	L, 199, R	Sets the stereo image of tap2	
	FB Amt	-100+100	Sets the Tap2 feedback amount	
	Tap3 Level	0100	Sets the Tap3 output level	
f	Pan	L, 199, R	Sets the stereo image of tap3	
	FB Amt	-100+100	Sets the Tap3 feedback amount	
	Feedback	0100	Sets the amount of feedback for Taps 1, 2, and 3	
g	Src	OffTempo	Selects the modulation source of feedback amount	
	Amt	-100+100	Sets the feedback amount	
h	High Damp [%]	0100	Sets the damping amount in the high range	
n	Low Damp [%]	0100	Sets the damping amount in the low range	
i	Saturation	0100	Sets the distortion amount	
	Input Trim	0100	Sets the input gain	
j	Pre Tone	0100	Sets the tone of the input	
k	Wow Flutter [Hz]	0.021.00	Sets the frequency at which pitch variation will occur	
ĸ	Wow Flutter depth	0100	Sets the depth of pitch variation	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
I	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

# a: Delay (Tap1) [msec]

- a: Src
- a: Amt
- b: Tap2 Position [%]
- b: Tap3 Position [%]

The delay time for Tap 2 and 3 is specified as a proportion (%) relative to "Delay (Tap1)." Even if you use dynamic modulation to control "Delay (Tap1)," Tap 2 and 3 will change at the same proportion.

- d: FB Amt
- e: FB Amt

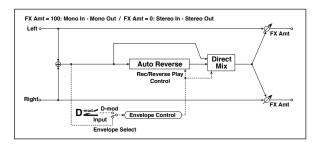
f: FB Amt

### g: Feedback

The feedback output from Tap 1, 2, and 3 is mixed according to the "FB Amt," and then the final amount of feedback is specified by "Feedback."

### **63: Auto Reverse**

This effect records the input signal and automatically plays it in reverse (the effect is similar to a tape reverse sound).



а	Rec Mode	Single, Multi	Sets the recording mode	
b	Reverse Time [msec]	202640	Sets the maximum duration of the reverse playback	
с	Envelope Select	D-mod, Input	Selects whether the start and end of recording is controlled via the modulation source or the input signal level	
	Src	OffTempo	Selects the modulation source that controls recording when Envelope Select is set to D-mod	
d	Threshold	0100	Sets the recording start level when Envelope Select is set to Input	
e	Response	0100	Sets the speed of the response to the end of recording	
f	Direct Mix	Always On, Always Off, Cross Fade	Selects how a dry sound is mixed	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
g	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

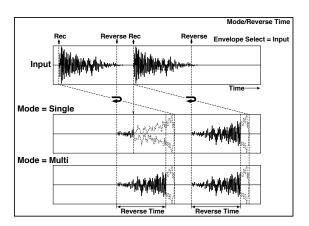
#### a: Rec Mode b: Reverse Time [msec]

When "Rec Mode" is set to Single, you can set up to 2,640msec for "Reverse Time." If recording starts during the reverse playback, the playback will be interrupted.

When "Rec Mode" is set to Multi, you can make another recording during the reverse playback. However, the maximum Reverse Time is limited to 1,320msec.

If you wish to record a phrase or rhythm pattern, set "Rec Mode" to Single. If you record only one note, set "Rec Mode" to Multi.

The "Reverse Time" parameter specifies the maximum duration of the reverse playback. The part in excess of this limit will not be played in reverse. If you wish to add short pieces of the reverse playback of single notes, make the "Reverse Time" shorter.



#### c: Envelope Select c: Src d: Threshold

These parameters select the source to control the start and end of recording.

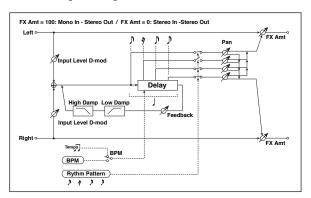
When "Envelope Select" is set to D-mod, the input signal will be recorded only when the value of the modulation source selected by the Src parameter is 64 or higher.

When "Envelope Select" is set to Input, the input signal will be recorded only when its level exceeds the Threshold level.

When recording is completed, reverse playback starts immediately.

### 64: Sequence BPM Dly (Sequence BPM Delay)

This four-tap delay enables you to select a tempo and rhythm pattern to set up each tap.



а	BPM	MIDI, 40.00 300.00	MIDI syncs to the system tempo; 40– 300 sets the tempo manually for this individual effect	Ц Ш
b	Rhythm Pattern	xeee ³	Selects a rhythm pattern	J∰
	Tap1 Pan	L, 199, R	Sets the panning of Tap1	
с	Tap2 Pan	L, 199, R	Sets the panning of Tap2	
C	Tap3 Pan	L, 199, R	Sets the panning of Tap3	
	Tap4 Pan	L, 199, R	Sets the panning of Tap4	
	Feedback	-100+100	Sets the feedback amount	
d	Src	OffTempo	Selects the modulation source of feedback amount	
	Amt	-100+100	Sets the feedback amount	
	High Damp [%]	0100	Sets the damping amount in the high range	
e	Low Damp [%]	0100	Sets the damping amount in the low range	
f	Input Level Dmod [%]	-100+100	Sets the modulation amount of the input level	
	Src	OffTempo	Selects the modulation source for the input level	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
g	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

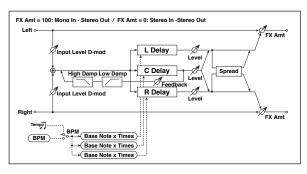
#### a: BPM

#### **b: Rhythm Pattern**

With the tempo specified by the "BPM" parameter (or the MIDI Clock tempo if "BPM" is set to MIDI), the length of one beat equals the feedback delay time, and the interval between taps becomes equal. Selecting a rhythm pattern will automatically turn the tap outputs on and off. When "BPM" is set to MIDI, the lower limit of the "BPM" is 44.

### 65: L/C/R BPM Delay

The L/C/R delay enables you to match the delay time with the song tempo. You can also synchronize the delay time with the arpeggiator or sequencer. If you program the tempo before performance, you can achieve a delay effect that synchronizes with the song in real-time. Delay time is set by notes.



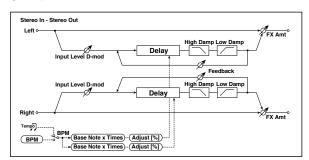
а	BPM	MIDI, 40.00 300.00	MIDI syncs to the system tempo; 40– 300 sets the tempo manually for this individual effect	<u>Д</u>
	Time Over?	, OVER!	Displays an error message when the delay time exceeds the upper limit	
	L Delay Base Note	rw	Selects the type of notes to specify the delay time for TapL	J∰
b	Times	x1x32	Sets the number of notes to specify the delay time for TapL	
	Level	050	Sets the output level of TapL	
	C Delay Base Note	rw	elects the type of notes to specify the delay time for TapC	<b>₽</b>
с	Times	x1x32	Sets the number of notes to specify the delay time for TapC	
	Level	050	Sets the output level of TapC	
	R Delay Base Note	rw	Selects the type of notes to specify the delay time for TapR	<b>D</b>
d	Times	x1x32	Sets the number of notes to specify the delay time for TapR	
	Level	050	Sets the output level of TapR	
	Feedback (C Delay)	-100+100	Sets the feedback amount of TapC	
e	Src	OffTempo	Selects the modulation source for the TapC feedback	
	Amt	-100+100	Sets the modulation amount of the TapC feedback	
f	High Damp [%]	0100	Sets the damping amount in the high range	
1	Low Damp [%]	0100	Sets the damping amount in the low range	
a	Input Level Dmod [%]	-100+100	Sets the modulation amount of the input level	
g	Src	OffTempo	Selects the modulation source for the input level	
h	Spread	050	Sets the width of the stereo image of the effect sound	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
i	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

#### a: Time Over?

You can set the delay time up to 5,460msec. If the delay time exceeds this limit, the error message "OVER!" appears in the display. Set the delay time parameters so that this message will not appear. "Time Over?" is only a display parameter.

### 66: Stereo BPM Delay

This stereo delay enables you to set the delay time to match the song tempo.



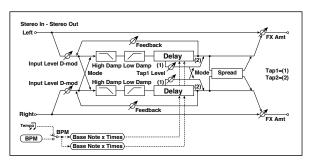
	BPM	MIDI, 40.00 300.00	MIDI syncs to the system tempo; 40– 300 sets the tempo manually for this individual effect	Д
a	Time Over? L	, OVER!	Display the error message if the left channel delay time exceeds the upper limit	
	R	, OVER!	Display the error message if the right channel delay time exceeds the upper limit	
	L Delay Base Note	rw	Selects the type of notes to specify the left channel delay time	م ک
b	Times	x1x32	Sets the number of notes to specify the left channel delay time	
	Adjust [%]	-2.50+2.50	Fine-adjust the left channel delay time	
	R Delay Base Note	rw	Selects the type of notes to specify the right channel delay time	Д Д
c	Times	x1x32	Sets the number of notes to specify the right channel delay time	
	Adjust [%]	-2.50+2.50	Fine-adjust the right channel delay time	
	L Feedback	-100+100	Sets the feedback amount for the left channel	
d	Src	OffTempo	Selects the modulation source of feedback amount	
	Amt L	-100+100	Sets the modulation amount of the left channel feedback	
_	R Feedback	-100+100	Sets the feedback amount for the right channel	
e	Amt R	-100+100	Sets the modulation amount of the right channel feedback	
f	High Damp [%]	0100	Sets the damping amount in the high range	
g	Low Damp [%]	0100	Sets the damping amount in the low range	
L.	Input Level Dmod [%]	-100+100	Sets the modulation amount of the input level	
h	Src	OffTempo	Selects the modulation source for the input level	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
i	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

#### a: Time Over? L, R

You can set the delay time up to 2,730msec. If the delay time exceeds this limit, the error message "OVER!" appears in the display. Set the delay time parameters so that this message will not appear. "Time Over?" is only a display parameter.

# 67: St.BPM Mtap Delay (Stereo BPM Multi tap Delay)

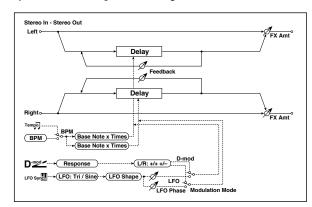
This four-tap delay enables you to select a tempo and rhythm pattern to set up each tap.



а	Mode	Normal, Cross Feedback, Cross Pan1, Cross Pan2	Switches the left and right delay routing	
	BPM	MIDI, 40.00 300.00	MIDI syncs to the system tempo; 40–300 sets the tempo manually for this individual effect	Ą
b	Time Over? 1	, OVER!	Displays an error message when the delay time for Tap1 exceeds the upper limit	
	2	, OVER!	Displays an error message when the delay time for Tap2 exceeds the upper limit	
с	Tap 1 Base Note	rw	Selects the type of notes to specify the delay time for Tap1	<u>∎</u> ®
	Times	x1x32	Sets the number of notes to specify the delay time for Tap1	
d	Tap 2 Base Note	rw	Selects the type of notes to specify the delay time for Tap2	₽ M
u	Times	x1x32	Sets the number of notes to specify the delay time for Tap2	
e	Tap1 Level	0100	Sets the Tap1 output level	
	Feedback (Tap2)	-100+100	Sets the Tap2 feedback amount	
f	Src	OffTempo	Selects the modulation source of the Tap2 feedback amount	
	Amt	-100+100	Sets the modulation amount of the Tap2 feedback amount	
~	High Damp [%]	0100	Sets the damping amount in the high range	
g	Low Damp [%]	0100	Sets the damping amount in the low range	
h	Input Level Dmod [%]	-100+100	Sets the modulation amount of the input level	
n	Src	OffTempo	Selects the modulation source for the input level	
	Spread	-100+100	Sets the width of the stereo image of the effect sound	
i	Src	OffTempo	Selects the modulation source of the effect sound's stereo image width	
	Amt	-100+100	Sets the modulation amount of the effect sound's stereo image width	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
j	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

### 68: St.BPM Mod. Delay (Stereo BPM Modulation Delay)

This is a stereo modulation delay that lets you synchronize the delay time to the tempo of the song.



a	Modulation Mode	LFO, D-mod	Switches between LFO modulation control and modulation source control	
	D-mod Modulation	L/R:+/+, L/R:+/-	Reversed L/R control by modulation source	
b	Src	OffTempo	Selects the modulation source that controls delay time	
	Response	030	Sets the rate of response to the modulation source	
	LFO Waveform	Triangle, Sine	Selects the LFO Waveform	
с	LFO Shape	-100+100	Changes the curvature of the LFO Waveform	
d	LFO Sync	Off, On	Switches LFO reset off/on	
u	Src	OffTempo	Selects the modulation source that resets the LFO	
e	LFO Frequency [Hz]	0.0220.00	Sets the speed of the LFO	
	MIDI Sync	Off, On	When this is on, the LFO speed is set by BPM, Base Note, and Times, instead of Frequency	<u>م</u>
f	BPM	MIDI, 40.00 300.00	MIDI syncs to the system tempo; 40– 300 sets the tempo manually for this individual effect	
	Base Note	rw	Selects the type of notes that specify the LFO speed	
	Times	x1x32	Sets the number of notes that specify the LFO speed	
a	L LFO Phase [deg]	-180+180	Sets the phase obtained when the left LFO is reset	
g	Depth	0200	Sets the depth of the left LFO modulation	
h	R LFO Phase [deg]	-180+180	Sets the phase obtained when the right LFO is reset	
	Depth	0200	Sets the depth of the right LFO modulation	
	BPM(Delay)	MIDI, 40.00 300.00	MIDI syncs to the system tempo; 40– 300 sets the tempo manually for this individual effect	<u>а</u>
i	Time Over? L	, OVER!	Display the error message if the left channel delay time exceeds the upper limit	
	R	, OVER!	Display the error message if the right channel delay time exceeds the upper limit	
	L Delay Base Note	rw	Selects the type of notes to specify the left channel delay time	<b>₽</b> ₩
j	Times	x1x32	Sets the number of notes to specify the left channel delay time	
	Feedback	-100+100	Sets the feedback amount of left delay	
	R Delay Base Note	rw	Selects the type of notes to specify the right channel delay time	<u>a</u>
k	Times	x1x32	Sets the number of notes to specify the right channel delay time	
	Feedback	-100+100	Sets the feedback amount of right delay	

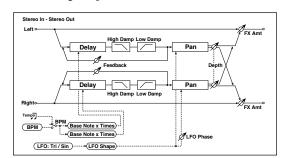
	Wet/Dry	-Wet, - 1:99Dry99:1 , Wet	Balance between the wet and dry signal	
1	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

### i: Time Over? L, R

You can set the delay time up to 2,550msec. If the delay time exceeds this limit, the error message "OVER!" appears in the display. Set the delay time parameters so that this message will not appear. "Time Over?" is only a display parameter.

### 69: St.BPMAutoPanDly (Stereo BPM Auto Panning Delay)

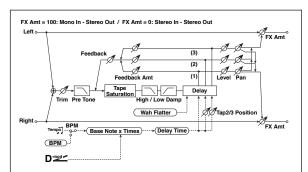
This stereo auto panning delay enables you to set the delay time to match the song tempo.



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Bit         Changes the curvature of the LFO Waveform         Changes the curvature of the LFO Waveform           IFO Phase         -180+180         Sets the LFO phase difference between the left and right         Image: Comparison of the LFO Waveform         Image: Comparison of the LFO Set the tempor of the panning speed         Image: Comparison of the panning speed         Image: Comparison of the panning width         Image: Comparis of the panning width	u	Low Damp [%]	0100		
e       Induce       -100+100       Waveform         LFO Phase       -180+180       Sets the LFO phase difference between the left and right          f       Panning Freq       0.0220.00       Sets the panning speed          h       Panning Freq       0.0220.00       Sets the panning speed          MIDI Sync       Off, On       When this is on, the pan LFO speed is set by BPM, Base Note, and Times, instead of Frequency          BPM       MIDI, 40.00       MIDI syncs to the system tempo; 40-300 sets the tempo manually for this individual effect          Base Note       rw       Selects the type of notes to specify the delay time for the panning speed          Times       x1x32       Sets the number of notes to specify the delay time for the panning speed          h       Src       OffTempo       Selects the modulation source for the panning width          i       src       OffTempo       Set the modulation amount of the panning width          i       Src       OffTempo       Table , "Dynamic Modulation source for the panning width		LFO Waveform	Triangle, Sine	Selects the LFO Waveform	
Intermediate       -160+180       between the left and right         f       Panning Freq [Hz]       0.0220.00       Sets the panning speed         MIDI Sync       Off, On       is set by BPM, Base Note, and Times, instead of Frequency       Image: Comparison of the pan LFO speed         BPM       MIDI, 40.00       MIDI syncs to the system tempo; 40- 300 sets the tempo manually for this individual effect       Image: Comparison of the panning speed         Base Note       rw       Selects the type of notes to specify the delay time for the panning speed       Image: Comparison of the panning speed         Times       x1x32       Sets the number of notes to specify the delay time for the panning speed       Image: Comparison of the panning speed         h       Src       OffTempo       Selects the modulation source for the panning width       Image: Comparison of the panning width         i       Src       OffTempo       Set the modulation amount of the panning width       Image: Comparison of the panning width         i       Src       OffTempo       Table , "Dynamic Modulation sources," on page 366       Image: Comparison of the panning sources," on page 366	e	Shape	-100+100	Changes the curvature of the LFO Waveform	
Image: Participation of the set of the painting speed         Image: Participation of the set of the painting speed         Image: Participation of the set of the painting speed         Image: Participation of the set of the painting speed         Image: Participation of the painting speed         Image: Painting speed         Imag		LFO Phase	-180+180		
MIDI Sync         Off, On         is set by BPM, Base Note, and Times, instead of Frequency         Image: Constraint of the system tempo, 40- 300.00         MIDI, syncs to the system tempo, 40- 300.00         MIDI, syncs to the system tempo, 40- 300.00         Image: Constraint of the system	f		0.0220.00	Sets the panning speed	
BPM         40.00 300.00         300 sets the tempo manually for this individual effect           Base Note         rw         Selects the type of notes to specify the delay time for the panning speed         Image: Comparison of the panning speed         I		MIDI Sync	Off, On	is set by BPM, Base Note, and Times,	<u>م</u>
Base Note       rw       Selects the type of notes to specify the delay time for the panning speed         Times       x1x32       Sets the number of notes to specify the delay time for the panning speed         h       Panning Depth       0100       Sets the panning width         Src       OffTempo       Selects the modulation amount of the panning width         wet/Dry       Dry, 1:9999:1, Wet       Balance between the wet and dry signal         i       Src       OffTempo       Table, "Dynamic Modulation sources" on page 366	~	BPM	40.00	300 sets the tempo manually for this	
Times     x1x32     the delay time for the panning speed       Panning Depth     0100     Sets the panning width       Src     OffTempo     Selects the modulation source for the panning width       Amt     -100+100     Set the modulation amount of the panning width       i     Wet/Dry     Dry, 1:9999:1, Wet     Balance between the wet and dry signal       i     Src     OffTempo     Table, "Dynamic Modulation sources" on page 366	g	Base Note	rw	the delay time for the panning	<b>₽</b> ₽
b         Src         OffTempo         Selects the modulation source for the panning width           Amt         -100+100         Set the modulation amount of the panning width           Wet/Dry         Dry, 1:9999:1, Wet         Balance between the wet and dry signal           i         Src         OffTempo           Table , "Dynamic Modulation sources," on page 366         Table , "Dynamic Modulation		Times	x1x32	the delay time for the panning	
h     Src     Off1empo     the panning width       Amt     -100+100     Set the modulation amount of the panning width       wet/Dry     Dry, 1:9999:1, Wet     Balance between the wet and dry signal       i     Src     OffTempo     Table , "Dynamic Modulation sources," on page 366		Panning Depth	0100	Sets the panning width	
Amt     -100+100     panning width       Wet/Dry     Dry, 1:9999:1, Wet     Balance between the wet and dry signal       i     Src     OffTempo       Table , "Dynamic Modulation sources," on page 366	h	Src	OffTempo		
Web Dry         Wet         signal           i         Src         OffTempo         Table , "Dynamic Modulation sources," on page 366		Amt	-100+100		
sources," on page 366		Wet/Dry			
Amt –100+100 Amount of modulation source	i	Src	OffTempo		
		Amt	-100+100	Amount of modulation source	

### 70: Tape Echo BPM

This is a tape echo that lets you synchronize the delay time to the tempo of the song.



BPM (Delay)         40.00 300.00         300.sets the tempo manually for this individual effect           Tap1 Delay Note         rw         Selects the modulation source of the delay time (tap1)           Dimes         x1x32         Sets the number of notes to specify the delay time (tap1)           Times         x1x32         Sets the number of notes to specify the delay time (tap1)           Time Over?        , OVER!         Displays an error message when the delay time exceeds the upper limit           Tap1 Dmod Note         rw         Selects the note value used to specify the delay time when the modulation is at maximum           d         Tap2 Position [\%]         0100         Sets the position of Tap 2 relative to the Tap1 delay time when the modulation is at maximum           d         Tap3 Position [\%]         0100         Sets the position of Tap 3 relative to the Tap1 delay time the depth of pitch variation           f         Tap1 Level         0100         Sets the Tap1 output level           g         Pan         L, 199, R         Sets the Tap1 output level           g         Pan         L, 199, R         Sets the Tap2 output level           g         Pan         L, 199, R         Sets the Tap3 duput level           g         Pan         L, 199, R         Sets the Tap3 duput level           han <t< th=""><th></th><th>[</th><th>MIDI,</th><th>MIDI syncs to the system tempo; 40–</th><th></th></t<>		[	MIDI,	MIDI syncs to the system tempo; 40–	
a         Selects the modulation source of the delay time           Tap1 Delay Note         rw         Selects the type of notes to specify the delay time (tap1)           Times         x1x32         Sets the number of notes to specify the delay time exceeds the upper limit           Tap1 Dmod Note         r, OVER!         Displays an error message when the delay time exceeds the upper limit           Tap1 Dmod Note         rw         Selects the note value used to specify the delay time when the modulation is at maximum           d         Tap2 Position [\%]         0100         Sets the position of Tap 2 relative to the Tap1 delay time the depth of pitch variation           e         Tap3 Position [\%]         0100         Sets the stereo image of tap1           f         FB Amt         -100+100         Sets the Tap1 delay time the depth of pitch variation           g         Tap2 Level         0100         Sets the Tap1 delay time the depth of pitch variation           g         FB Amt         -100+100         Sets the Tap1 delay time the depth of pitch variation           g         Pan         L, 199, R         Sets the stereo image of tap1           f         FB Amt         -100+100         Sets the Tap3 dedback amount           g         Pan         L, 199, R         Sets the Tap3 dedback amount           hg3 Level		BPM (Delay)	40.00	300 sets the tempo manually for this	Д Sync
Iap1 Drod Src       Off1empo       the delay time         Iap1 Delay       rw       Selects the type of notes to specify         Image: Tap1 Delay       rw       Selects the type of notes to specify         Image: Tap1 Delay       x1x32       Sets the number of notes to specify         Image: Tap1 Delay      , OVERI       Displays an error message when the delay time exceeds the upper limit         Image: Tap1 Dmod Note      , OVERI       Selects the note value used to specify the delay time when the modulation is at maximum         Image: Tap2 Position Note       x1x32       Specifies the number of notes used to specify the delay time the depth of pitch variation         Image: Tap3 Position Note       0100       Sets the position of Tap 2 relative to the Tap1 delay time the depth of pitch variation         Image: Tap3 Position Note       0100       Sets the specify the delay time the depth of pitch variation         Image: Tap3 Position Note       0100       Sets the Tap1 output level         Pan       L, 199, R       Sets the stereo image of tap1         FB Amt       -100+100       Sets the Tap2 output level         Pan       L, 199, R       Sets the Tap3 output level         Pan       L, 199, R       Sets the Tap3 output level         Pan       L, 199, R       Sets the Tap3 output level <tr< td=""><td rowspan="2">a</td><td></td><td>300.00</td><td></td><td></td></tr<>	a		300.00		
Note         Imm         the delay time (tap1)         Preside           b         Times         x1x32         Sets the number of notes to specify the delay time (tap1)           Time Over?        , OVER!         Displays an error message when the delay time exceeds the upper limit           c         Tap1 Dmod Note         rw         Selects the note value used to specify the delay time when the modulation is at maximum           d         Tap2 Position [%]         0100         Sets the position of Tap2 relative to the Tap1 delay time the depth of pitch variation           e         Tap3 Position [%]         0100         Sets the position of Tap3 relative to the Tap1 delay time the depth of pitch variation           f         Tap1 Level         0100         Sets the Tap1 output level           f         Pan         L, 199, R         Sets the Tap1 output level           g         Tap2 Level         0100         Sets the Tap2 output level           g         Pan         L, 199, R         Sets the Tap3 output level           g         Pan         L, 199, R         Sets the Tap3 output level           g         Pan         L, 199, R         Sets the Tap3 output level           h         Pan         L, 199, R         Sets the Tap3 output level           h         Pan		Tap1 Dmod Src	OffTempo		
b       Immes       X1X32       the delay time (tap1)       1         Time Over?      , OVER!       Displays an error message when the delay time exceeds the upper limit         c       Tap1 Dmod Note       rw       Selects the note value used to specify the delay time when the modulation is at maximum         d       Tap2 Position [%]       0100       Sets the position of Tap 2 relative to the Tap 1 delay time the depth of pitch variation         e       Tap3 Position [%]       0100       Sets the position of Tap 3 relative to the Tap 1 delay time the depth of pitch variation         f       Pan       L, 199, R       Sets the Tap1 output level         f       Pan       L, 199, R       Sets the Tap2 output level         g       Pan       L, 199, R       Sets the Tap2 output level         g       Pan       L, 199, R       Sets the Tap2 output level         g       Pan       L, 199, R       Sets the Tap2 output level         g       Pan       L, 199, R       Sets the Tap3 output level         h       Pan       L, 199, R       Sets the Tap3 output level         h       Pan       L, 199, R       Sets the Tap3 output level         h       Pan       L, 1			rw	Selects the type of notes to specify the delay time (tap1)	_ A∰
Inite Over?      , OVER!       delay time exceeds the upper limit         c       Tap1 Dmod Note       rw       Selects the note value used to specify the delay time when the modulation is at maximum         d       Tap2 Position [%]       0100       Sets the position of Tap 2 relative to the Tap 1 delay time the depth of pitch variation         e       Tap3 Position [%]       0100       Sets the position of Tap 3 relative to the Tap 1 delay time the depth of pitch variation         f       Pan       L, 199, R       Sets the tap 1 output level         f       Pan       L, 199, R       Sets the stereo image of tap 1         FB Amt       -100+100       Sets the Tap 1 delay time the depth of pitch variation         g       Pan       L, 199, R       Sets the tap 2 output level         g       Pan       L, 199, R       Sets the tap 2 output level         g       Pan       L, 199, R       Sets the tap 2 output level         g       Pan       L, 199, R       Sets the tap 3 output level         h       Pan       L, 199, R       Sets the tap 3 output level         h       Pan       L, 199, R       Sets the tap 3 output level         h       Pan       L, 199, R       Sets the damount of feedback amount         f B Amt       -100	b	Times	x1x32		
Integr Diffed       rw       specify the delay time when the modulation is at maximum         c       Times       x1x32       Specifies the number of notes used to specify the delay time when the modulation is at maximum         d       Tap2 Position [%]       0100       Sets the position of Tap 2 relative to the Tap 1 delay time the depth of pitch variation         e       Tap3 Position [%]       0100       Sets the position of Tap 3 relative to the Tap 1 delay time the depth of pitch variation         f       Pan       L, 199, R       Sets the tap 1 delay time the depth of pitch variation         g       Pan       L, 199, R       Sets the Tap1 output level         g       Pan       L, 199, R       Sets the Tap2 output level         g       Pan       L, 199, R       Sets the Tap2 depto upt level         g       Pan       L, 199, R       Sets the Tap2 depto upt level         h       Pan       L, 199, R       Sets the Tap3 output level         h       Pan       L, 199, R       Sets the tap3 output level         h       Pan       L, 199, R       Sets the tap3 output level         h       Pan       L, 199, R       Sets the damount of feedback amount         feedback       0100       Sets the damount of feedback for Tap3 1, 2, and 3		Time Over?	, OVER!		
Timesx1x32Specifies the number of notes used to specify the delay time when the modulation is at maximumdTap2 Position [%]0100Sets the position of Tap 2 relative to the Tap 1 delay time the depth of pitch variationeTap3 Position [%]0100Sets the position of Tap 3 relative to the Tap 1 delay time the depth of pitch variationfPanL, 199, RSets the Tap1 output levelfPanL, 199, RSets the Tap1 delay time the depth of pitch variationgTap2 Level0100Sets the Tap1 delay time the depth delay time the depth of pitch variationgPanL, 199, RSets the Tap1 feedback amountgPanL, 199, RSets the Tap2 output levelgPanL, 199, RSets the Tap2 feedback amountfTap3 Level0100Sets the Tap3 output levelhPanL, 199, RSets the tap3 feedback amountfFB Amt-100+100Sets the Tap3 feedback for Taps 1, 2, and 3iSrcOffTempoSets the damping amount in the high rangejLow Damp [%]0100Sets the damping amount in the low rangekSaturation0100Sets the distortion amount			rw	specify the delay time when the	<u>a</u>
dIap2 Position [%]0100the Tap 1 delay time the depth of pitch variationeTap3 Position [%]0100Sets the position of Tap 3 relative to the Tap 1 delay time the depth of pitch variationfPanL, 199, RSets the Tap 1 output levelfPanL, 199, RSets the stereo image of tap 1rap2 Level0100Sets the Tap 2 output levelgPanL, 199, RSets the tap 2 output levelgPanL, 199, RSets the tap 3 output levelhPanL, 199, RSets the tap 3 feedback amountfFB Amt-100+100Sets the tap 3 feedback amountiSrcOffTempoSets the depth by which feedback amount will be modulatedjLow Damp [%]0100Sets the damping amount in the low rangekSaturation0100Sets the distortion amountlInput Trim0100Sets the frequency at which pitch variation will occurmMigh Damp [%]0100Sets the domping amount in the low rangekSaturation0100Sets the distortion amountnInput Trim0100Sets t	Ĺ	Times	x1x32	to specify the delay time when the	
eTaps Position [%]0100the Tap 1 delay time the depth of pitch variationfTap1 Level0100Sets the Tap1 output levelfPanL, 199, RSets the stereo image of tap1FB Amt-100+100Sets the Tap1 feedback amountgTap2 Level0100Sets the Tap2 output levelgPanL, 199, RSets the stereo image of tap2FB Amt-100+100Sets the Tap2 feedback amounthTap3 Level0100Sets the Tap3 output levelhPanL, 199, RSets the stereo image of tap3FB Amt-100+100Sets the tap3 feedback amountFeedback0100Sets the Tap3 feedback amountfFeedback0100Sets the depth by which feedback for Taps 1, 2, and 3iSrcOffTempoSets the depth by which feedback amount will be modulatedjLow Damp [%]0100Sets the damping amount in the high rangekSaturation0100Sets the damping amount in the low rangekSaturation0100Sets the frequency at which pitch variation will occurmInput Trim0100Sets the frequency at which pitch variation will occurnSrcOffTempoSets the frequency at which pitch variation will occurnSets the dopt of pitch variationnSrcOffTempoSets the depth of pitch variationnSrcOffTempoSets the depth of pitch varia	d		0100	the Tap 1 delay time the depth of	
fPanL, 199, RSets the stereo image of tap1FB Amt-100+100Sets the Tap1 feedback amountgTap2 Level0100Sets the Tap2 output levelPanL, 199, RSets the stereo image of tap2FB Amt-100+100Sets the Tap2 feedback amountnTap3 Level0100PanL, 199, RSets the Tap3 output levelPanL, 199, RSets the stereo image of tap3FB Amt-100+100Sets the tap3 feedback amountFeedback0100Sets the tap3 feedback amountiFeedback0100Sets the amount of feedback for Taps 1, 2, and 3iSrcOffTempoSelects the modulation source of feedback amountjHigh Damp [%]0100Sets the depth by which feedback amount will be modulatedjLow Damp [%]0100Sets the damping amount in the high rangekSaturation0100Sets the damping amount in the low rangekSaturation0100Sets the distortion amountlInput Trim0100Sets the frequency at which pitch variation will occurmWow Flutter depth0021.00Sets the depth of pitch variationnSrcOffTempoSets the depth of pitch variationnSetsSets the depth of pitch variationnSetsSets the depth of pitch variationnSetsSets the depth of pitch variationnSetsSets<	e		0100	the Tap 1 delay time the depth of	
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gTap2 Level0100Sets the Tap2 output levelgPanL, 199, RSets the stereo image of tap2FB Amt-100+100Sets the Tap2 feedback amounthTap3 Level0100Sets the Tap3 output levelPanL, 199, RSets the stereo image of tap3FB Amt-100+100Sets the tap3 feedback amountiFeedback0100Sets the tap3 feedback amountiFeedback0100Sets the amount of feedback for Taps 1, 2, and 3iSrcOffTempoSelects the modulation source of feedback amountjHigh Damp [%]0100Sets the damping amount in the high rangejLow Damp [%]0100Sets the damping amount in the low rangekSaturation0100Sets the distortion amountlInput Trim0100Sets the frequency at which pitch variation will occurmWow Flutter depth0.021.00Sets the frequency at which pitch variation will occurnSrcOffTempoSets the depth of pitch variationnSaturation0100Sets the damping amount in the low rangekSaturation0100Sets the distortion amountlInput Trim0100Sets the tone of the inputmSaturation0100Sets the damping amount in the low rangenSaturation0100Sets the damping amount in the low 	f	Pan	L, 199, R	Sets the stereo image of tap1	
gPanL, 199, RSets the stereo image of tap2FB Amt-100+100Sets the Tap2 feedback amounthTap3 Level0100Sets the Tap3 output levelPanL, 199, RSets the stereo image of tap3FB Amt-100+100Sets the stereo image of tap3iFeedback0100Sets the tap3 feedback amountiFeedback0100Sets the amount of feedback for Taps 1, 2, and 3iSrcOffTempoSelects the modulation source of feedback amountjAmt-100+100Sets the depth by which feedback amount will be modulatedjHigh Damp [%]0100Sets the damping amount in the high rangejLow Damp [%]0100Sets the damping amount in the low rangekSaturation0100Sets the tone of the inputlInput Trim0100Sets the tone of the inputmWow Flutter depth0.021.00Sets the frequency at which pitch variation will occurmSrcOffTempoSets the depth of pitch variationnSrcOffTempoTable, "Dynamic Modulation sources," on page 366		FB Amt	-100+100	Sets the Tap1 feedback amount	
FB Amt       -100+100       Sets the Tap2 feedback amount         h       Tap3 Level       0100       Sets the Tap3 output level         Pan       L, 199, R       Sets the stereo image of tap3         FB Amt       -100+100       Sets the stereo image of tap3         Fedback       0100       Sets the amount of feedback amount         i       Feedback       0100       Sets the amount of feedback for Taps 1, 2, and 3         src       OffTempo       Selects the modulation source of feedback amount         Amt       -100+100       Sets the depth by which feedback amount in the high range         j       Low Damp [%]       0100       Sets the damping amount in the low range         k       Saturation       0100       Sets the distortion amount         l       Input Trim       0100       Sets the input gain         pre Tone       0100       Sets the frequency at which pitch variation will occur         m       Wow Flutter depth       0021.00       Sets the depth of pitch variation         m       Src       OffTempo       Sets the depth of pitch variation         n       Saturation       0100       Sets the input gain         pre Tone       0100       Sets the tone of the input		Tap2 Level	0100	Sets the Tap2 output level	
Tap3 Level         0100         Sets the Tap3 output level           h         Pan         L, 199, R         Sets the stereo image of tap3           FB Amt         -100+100         Sets the Tap3 feedback amount           i         Feedback         0100         Sets the amount of feedback for Taps 1, 2, and 3           i         Src         OffTempo         Selects the modulation source of feedback amount           Amt         -100+100         Sets the depth by which feedback amount will be modulated           j         High Damp [%]         0100         Sets the damping amount in the high range           Low Damp [%]         0100         Sets the damping amount in the low range           k         Saturation         0100         Sets the disortion amount           I         Input Trim         0100         Sets the input gain           Pre Tone         0100         Sets the frequency at which pitch variation will occur           m         Wow Flutter depth         0021.00         Sets the depth of pitch variation           m         Src         OffTempo         Table, "Dynamic Modulation sources," on page 366	g	Pan	L, 199, R	Sets the stereo image of tap2	
h       Pan       L, 199, R       Sets the stereo image of tap3         FB Amt       -100+100       Sets the Tap3 feedback amount         i       Feedback       0100       Sets the amount of feedback for Taps 1, 2, and 3         i       Src       OffTempo       Selects the modulation source of feedback amount         Amt       -100+100       Sets the depth by which feedback amount will be modulated         j       High Damp [%]       0100       Sets the damping amount in the high range         Low Damp [%]       0100       Sets the damping amount in the low range         k       Saturation       0100       Sets the disortion amount         I       Input Trim       0100       Sets the tone of the input         m       Wow Flutter (Hz]       0.021.00       Sets the frequency at which pitch variation will occur         m       Wet/Dry       Dry, 1:9999:1, Balance between the wet and dry signal       Signal         n       Src       OffTempo       Table, "Dynamic Modulation sources" on page 366		FB Amt	-100+100	Sets the Tap2 feedback amount	
FB Amt       -100+100       Sets the Tap3 feedback amount         i       Feedback       0100       Sets the amount of feedback for Taps 1, 2, and 3         i       Src       OffTempo       Selects the modulation source of feedback amount         Amt       -100+100       Sets the depth by which feedback amount         j       Amt       -100+100       Sets the depth by which feedback amount will be modulated         j       Low Damp [%]       0100       Sets the damping amount in the high range         k       Saturation       0100       Sets the damping amount in the low range         k       Saturation       0100       Sets the input gain         I       Input Trim       0100       Sets the frequency at which pitch variation will occur         m       Wow Flutter (Hz]       0.021.00       Sets the depth of pitch variation         m       Wet/Dry       Dry, 1:9999:1, Balance between the wet and dry signal         n       Src       OffTempo       Table, "Dynamic Modulation sources" on page 366		Tap3 Level	0100	Sets the Tap3 output level	
Feedback         0100         Sets the amount of feedback for Taps 1, 2, and 3           i         Src         OffTempo         Selects the modulation source of feedback amount           Amt         -100+100         Sets the depth by which feedback amount will be modulated           j         High Damp [%]         0100         Sets the damping amount in the high range           k         Saturation         0100         Sets the damping amount in the low range           k         Saturation         0100         Sets the disortion amount           I         Input Trim         0100         Sets the input gain           Pre Tone         0100         Sets the frequency at which pitch variation will occur           Mow Flutter (Hz]         0021.00         Sets the depth of pitch variation           m         Wet/Dry         Dry, 1:9999:1, Wet         Balance between the wet and dry signal           n         Src         OffTempo         Table, "Dynamic Modulation sources," on page 366	h	Pan	L, 199, R	Sets the stereo image of tap3	
Peedback       0100       Taps 1, 2, and 3         i       Src       OffTempo       Selects the modulation source of feedback amount         Amt       -100+100       Sets the depth by which feedback amount will be modulated         j       High Damp [%]       0100       Sets the damping amount in the high range         k       Saturation       0100       Sets the damping amount in the low range         k       Saturation       0100       Sets the distortion amount         I       Input Trim       0100       Sets the tone of the input         Wow Flutter       0.021.00       Sets the depth of pitch variation         m       Wet/Dry       Dry, 1:9999:1, Wet       Balance between the wet and dry signal         n       Src       OffTempo       Table , "Dynamic Modulation sources" on page 366		FB Amt	-100+100	Sets the Tap3 feedback amount	
1       Src       Off1empo       feedback amount         Amt       -100+100       Sets the depth by which feedback amount will be modulated         j       High Damp [%]       0100       Sets the damping amount in the high range         Low Damp [%]       0100       Sets the damping amount in the low range         k       Saturation       0100       Sets the damping amount in the low range         k       Saturation       0100       Sets the distortion amount         I       Input Trim       0100       Sets the input gain         Pre Tone       0100       Sets the frequency at which pitch variation will occur         Mow Flutter (Hz]       0.021.00       Sets the depth of pitch variation         m       Wet/Dry       Dry, 1:9999:1, Wet       Balance between the wet and dry signal         n       Src       OffTempo       Table, "Dynamic Modulation sources," on page 366		Feedback	0100		
Ante       -100+100       amount will be modulated         j       High Damp [%]       0100       Sets the damping amount in the high range         Low Damp [%]       0100       Sets the damping amount in the low range         k       Saturation       0100       Sets the distortion amount         I       Input Trim       0100       Sets the distortion amount         Pre Tone       0100       Sets the tone of the input         Mow Flutter       0.02100       Sets the frequency at which pitch variation will occur         Wow Flutter depth       0100       Sets the depth of pitch variation         Met/Dry       Dry, 1:9999:1, Balance between the wet and dry signal         Src       OffTempo       Table , "Dynamic Modulation sources," on page 366	i	Src	OffTempo		
ight Damp [%]     0100     high range       j     Low Damp [%]     0100     Sets the damping amount in the low range       k     Saturation     0100     Sets the distortion amount       l     Input Trim     0100     Sets the distortion amount       Pre Tone     0100     Sets the tone of the input       m     Wow Flutter (Hz)     0.021.00     Sets the frequency at which pitch variation will occur       Wow Flutter depth     0100     Sets the depth of pitch variation       n     Wet/Dry     Dry, 1:9999:1, Wet     Balance between the wet and dry signal       Src     OffTempo     Table , "Dynamic Modulation sources," on page 366		Amt	-100+100		
Low Damp [%]       0100       Sets the damping amount in the low range         k       Saturation       0100       Sets the distortion amount         I       Input Trim       0100       Sets the distortion amount         Pre Tone       0100       Sets the tone of the input         M       Wow Flutter       0.02100       Sets the frequency at which pitch variation will occur         Wow Flutter depth       0100       Sets the depth of pitch variation         M       Wet/Dry       Dry, 1:9999:1, Balance between the wet and dry signal         N       Src       OffTempo       Table , "Dynamic Modulation sources," on page 366		High Damp [%]	0100		
I         Input Trim         0100         Sets the input gain           Pre Tone         0100         Sets the tone of the input           Mow Flutter         0.02100         Sets the frequency at which pitch variation will occur           Wow Flutter         0100         Sets the depth of pitch variation           Met/Dry         Dry, 1:9999:1, Wet         Balance between the wet and dry signal           Src         OffTempo         Table , "Dynamic Modulation sources," on page 366	,	Low Damp [%]	0100		
I     Pre Tone     0100     Sets the tone of the input       M     Wow Flutter     0.021.00     Sets the frequency at which pitch variation will occur       M     [H2]     0.021.00     Sets the depth of pitch variation       Wow Flutter depth     0100     Sets the depth of pitch variation       N     Wet/Dry     Dry, 1:9999:1, Wet     Balance between the wet and dry signal       N     Src     OffTempo     Table , "Dynamic Modulation sources," on page 366	k	Saturation	0100	Sets the distortion amount	
Pre Tone         0100         Sets the tone of the input           Mow Flutter [H2]         0.021.00         Sets the frequency at which pitch variation will occur           Wow Flutter depth         0100         Sets the depth of pitch variation           N         Wet/Dry         Dry, 1:9999:1, Wet         Balance between the wet and dry signal           Src         OffTempo         Table , "Dynamic Modulation sources," on page 366	ı	•		Sets the input gain	
[Hz]         0.021.00         variation will occur           Wow Flutter depth         0100         Sets the depth of pitch variation           Wet/Dry         Dry, 1:9999:1, Wet         Balance between the wet and dry signal           n         Src         OffTempo         Table , "Dynamic Modulation sources," on page 366	Ľ		0100	Sets the tone of the input	
Wow Flutter depth         0100         Sets the depth of pitch variation           Wet/Dry         Dry, 1:9999:1, Wet         Balance between the wet and dry signal           n         Src         OffTempo           Table , "Dynamic Modulation sources," on page 366	m		0.021.00	Sets the frequency at which pitch variation will occur	
wet/Dry         Wet         signal           n         Src         OffTempo         Table , "Dynamic Modulation sources," on page 366					
sources," on page 366		Wet/Dry			
Amt –100+100 Amount of modulation source	n		•	sources," on page 366	
		Amt	-100+100	Amount of modulation source	

a: Tap1 Dmod Src b: Tap1 Delay Note b: Times c: Tap1 Dmod Note c: Times

If "Tap1 Dmod Src" is Off or the selected modulation is at 0, the delay time will be the length specified by "Tap1 Delay Note" and "Times."

If "Tap1 Dmod Src" is other than Off, the delay time will change so that it will be as specified by "Tap1 Dmod Note" and "Times" when the maximum modulation is reached.

#### b: Time Over?

You can set the delay time up to 5,400msec. If the delay time exceeds this limit, the error message "OVER!" appears in the display. Set the delay time parameters so that this message will not appear. "Time Over?" is only a display parameter.

# **Reverb and Early Reflections (Reverb ER)**

### 71: Reverb Hall

This hall-type reverb simulates the reverberation of mid-size concert halls or ensemble halls.

### 72: Reverb SmoothHall

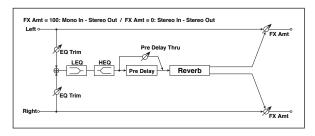
This hall-type reverb simulates the reverberation of larger halls and stadiums, and creates a smooth release.

# 73: Reverb Wet Plate

This plate reverb simulates warm (dense) reverberation.

### 74: Reverb Dry Plate

This plate reverb simulates dry (light) reverberation.

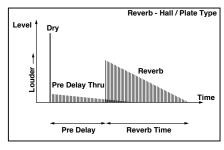


		Reverb Time [sec]	0.110.0	Sets the reverberation time	
	а	High Damp [%]	0100	Sets the damping amount in the high range	
	b	Pre Delay [msec]	0200	Sets the delay time from the dry sound	
	b	Pre Delay Thru [%]	0100	Sets the mix ratio of non-delay sound	
ſ	с	EQ Trim	0100	Sets the EQ input level	
		Pre LEQ Fc	Low, Mid-Low	Selects the cutoff frequency (low or mid-low) of the low-range equalizer	
	d	Pre HEQ Fc	High, Mid-High	Selects the cutoff frequency (high or mid-high) of the high-range equalizer	
	e	Pre LEQ Gain [dB]	-15.0+15.0	Sets the gain of Low EQ	
	е	Pre HEQ Gain [dB]	-15.0+15.0	Sets the gain of High EQ	
		Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
	f	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
		Amt	-100+100	Amount of modulation source	

#### b: Pre Delay [msec] b: Pre Delay Thru [%]

The "Pre Delay" sets the delay time to the reverb input, allowing you to control spaciousness.

Using the "Pre Delay Thru" parameter, you can mix the dry sound without delay, emphasizing the attack of the sound.

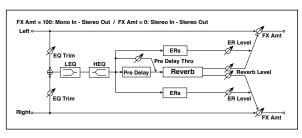


### 75: Reverb Room

This room-type reverb emphasizes the early reflections that make the sound tighter. Changing the balance between the early reflections and reverb sound allows you to simulate nuances, such as the type of walls of a room.

### 76: Reverb BrightRoom

This room-type reverb emphasizes the early reflections that make the sound brighter.

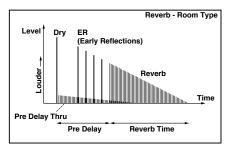


а	Reverb Time [sec]	0.13.0	Sets the reverberation time	
a	High Damp [%]	0100	Sets the damping amount in the high range	
b	Pre Delay [msec]	0200	Sets the delay time from the dry sound	
D	Pre Delay Thru [%]	0100	Sets the mix ratio of non-delay sound	
с	ER Level	0100	Sets the level of early reflections	
d	Reverb Level	0100	Sets the reverberation level	
e	EQ Trim	0100	Sets the EQ input level	
	Pre LEQ Fc	Low, Mid-Low	Selects the cutoff frequency (low or mid-low) of the low-range equalizer	
f	Pre HEQ Fc	High, Mid-High	Selects the cutoff frequency (high or mid-high) of the high-range equalizer	
_	Pre LEQ Gain [dB]	-15.0+15.0	Sets the gain of Low EQ	
g	Pre HEQ Gain [dB]	-15.0+15.0	Sets the gain of High EQ	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
h	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

#### c: ER Level d: Reverb Level

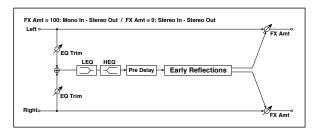
These parameters set the early reflection level and reverb level.

Changing these parameter values allows you to simulate the type of walls in the room. That is, a larger "ER Level" simulates a hard wall, and a larger "Reverb Level" simulates a soft wall.



### 77: Early Reflections

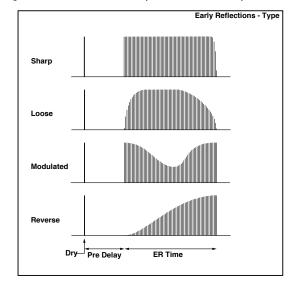
This effect is only the early reflection part of a reverberation sound, and adds presence to the sound. You can select one of the four decay curves.



а	Туре	Sharp, Loose, Modulated, Reverse	Selects the decay curve for the early reflection	
b	ER Time [msec]	10800	Sets the time length of early reflection	
с	Pre Delay [msec]	0200	Sets the time taken from the original sound to the first early reflection	
d	EQ Trim	0100	Sets the input level of EQ applied to the effect sound	
	Pre LEQ Fc	Low, Mid-Low	Selects the cutoff frequency (low or mid-low) of the low-range equalizer	
e	Pre HEQ Fc	High, Mid-High	Selects the cutoff frequency (high or mid-high) of the high-range equalizer	
f	Pre LEQ Gain [dB]	-15.0+15.0	Gain of the Low EQ	
	Pre HEQ Gain [dB]	-15.0+15.0	Gain of the High EQ	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
g	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

#### a: Type

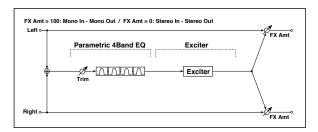
This parameter selects the decay curve for the early reflection.



# Mono-Mono Serial (Mono-Mono)

# 78: P4EQ - Exciter (Parametric 4-Band EQ - Exciter)

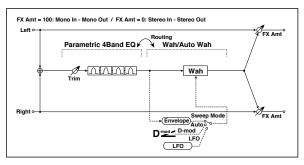
This effect combines a mono four-band parametric equalizer and an exciter.



P4E	Q			
а	[E]Trim	0100	Sets the parametric EQ input level	
	[E]B1 Cutoff [Hz]	201.00k	Sets the center frequency of Band 1	
b	Q	0.510.0	Sets the bandwidth of Band 1	
	Gain [dB]	-18+18	Sets the gain of Band 1	
	[E]B2 Cutoff [Hz]	505.00k	Sets the center frequency of Band 2	
с	Q	0.510.0	Sets the bandwidth of Band 2	
	Gain [dB]	-18+18	Sets the gain of Band 2	
	[E]B3 Cutoff [Hz]	30010.00k	Sets the center frequency of Band 3	
d	Q	0.510.0	Sets the bandwidth of Band 3	
	Gain [dB]	-18+18	Sets the gain of Band 3	
	[E]B4 Cutoff [Hz]	50020.00k	Sets the center frequency of Band 4	
e	Q	0.510.0	Sets the bandwidth of Band 4	
	Gain [dB]	-18+18	Sets the gain of Band 4	
EXC	ITER			
f	[X]Exciter Blend	-100+100	Sets the intensity (depth) of the Exciter effect	
g	[X]Emphasis Freq	070	Sets the frequency range to be emphasized	
h	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

### 79: P4EQ - Wah (Parametric 4-Band EQ -Wah/Auto Wah)

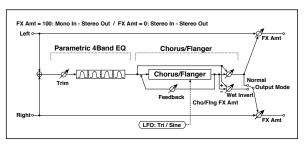
This effect combines a mono four-band parametric equalizer and a wah. You can change the order of the connection.



P4E	Q			
	[E]Trim	0100	Sets the parametric EQ input level	
а	Routing	P4EQ Wah, Wah P4EQ	Changes the order of the parametric equalizer and wah connection	
	[E]B1 Cutoff [Hz]	201.00k	Sets the center frequency of Band 1	
b	Q	0.510.0	Sets the bandwidth of Band 1	
	Gain [dB]	-18+18	Sets the gain of Band 1	
	[E]B2 Cutoff [Hz]	505.00k	Sets the center frequency of Band 2	
c	Q	0.510.0	Sets the bandwidth of Band 2	
	Gain [dB]	-18+18	Sets the gain of Band 2	
	[E]B3 Cutoff [Hz]	30010.00k	Sets the center frequency of Band 3	
d	Q	0.510.0	Sets the bandwidth of Band 3	
	Gain [dB]	-18+18	Sets the gain of Band 3	
	[E]B4 Cutoff [Hz]	50020.00k	Sets the center frequency of Band 4	
e	Q	0.510.0	Sets the bandwidth of Band 4	
	Gain [dB]	-18+18	Sets the gain of Band 4	
WAI	H			
f	[W]Frequency Bottom	0100	Sets the lower limit of the wah center frequency	
'	Frequency Top	0100	Sets the upper limit of the wah center frequency	
g	[W]Sweep Mode	Auto, D-mod, LFO	Selects the control from auto-wah, modulation source, and LFO	
-	Src	OffTempo	Selects the modulation source for the wah when Sweep Mode=D-mod	
	[W]LFO Frequency [Hz]	0.0220.00	Sets the speed of the LFO	
h	Resonance	0100	Sets the resonance amount	
	LPF	Off, On	Switches the wah low pass filter on and off	
	[W] Wet/Dry	Dry,1:9999: 1, Wet	Sets the wah effect balance	
i	Src	OffTempo	Selects the Wet/Dry modulation source for the wah	
	Amt	-100+100	Sets the Wet/Dry modulation amount for the wah	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
j	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

# 80: P4EQ - Cho/FIng (Parametric 4-Band EQ - Chorus/Flanger)

This effect combines a mono four-band parametric equalizer and a chorus/flanger.



P4E	P4EQ				
а	[E]Trim	0100	Sets the parametric EQ input level		
a b c d e CHO f h	[E]B1 Cutoff [Hz]	201.00k	Sets the center frequency of Band 1		
	Q	0.510.0	Sets the bandwidth of Band 1		
	Gain [dB]	-18+18	Sets the gain of Band 1		
	[E]B2 Cutoff [Hz]	505.00k	Sets the center frequency of Band 2		
с	Q	0.510.0	Sets the bandwidth of Band 2		
	Gain [dB]	-18+18	Sets the gain of Band 2		
	[E]B3 Cutoff [Hz]	30010.00k	Sets the center frequency of Band 3		
d	Q	0.510.0	Sets the bandwidth of Band 3		
	Gain [dB]	-18+18	Sets the gain of Band 3		
	[E]B4 Cutoff [Hz]	50020.00k	Sets the center frequency of Band 4		
e	Q	0.510.0	Sets the bandwidth of Band 4		
	Gain [dB]	-18+18	Sets the gain of Band 4		
CHC	RUS/FLANGER				
f	[F]LFO Frequency [Hz]	0.0220.00	Sets the speed of the LFO		
	LFO Waveform	Triangle, Sine	Selects the LFO Waveform		
	[F]Delay Time [msec]	0.01350.0	Sets the delay time		
g	Depth	0100	Sets the depth of LFO modulation		
	Feedback	-100+100	Sets the feedback amount		
	[F]Cho/Flng Wet/Dry	-Wet, - 1:99Dry99:1 , Wet	Sets the effect balance of the chorus/flanger		
h	Src	OffTempo	Selects the Wet/Dry modulation source for the chorus/flanger		
	Amt	-100+100	Sets the Wet/Dry modulation amount for the chorus/flanger		
i	[F]Output Mode	Normal, Wet Invert	Selects the output mode for the chorus/flanger		
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal		
j	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366		
	Amt	-100+100	Amount of modulation source		

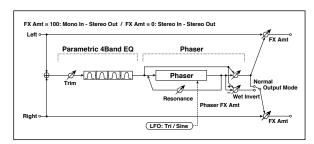
#### i: Output Mode

When Wet Invert is selected, the right channel phase of the chorus/flanger effect sound is inverted. This creates pseudo-stereo effects and adds spread.

However, if a mono-input type effect is connected after this effect, the left and right sounds may cancel each other, eliminating the chorus/flanger effects.

### 81: P4EQ - Phaser (Parametric 4-Band EQ - Phaser)

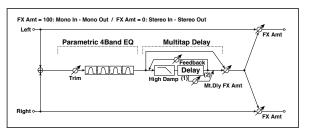
This effect combines a mono four-band parametric equalizer and a phaser.



a[E]Trim0100Sets the parametric EQ input levelb[E]B1 Cutoff [Hz]201.00kSets the center frequency of Band 1Q0.510.0Sets the bandwidth of Band 1Gain [dB]-18+18Sets the gain of Band 1C[E]B2 Cutoff [Hz]505.00kSets the center frequency of Band 2Q0.510.0Sets the bandwidth of Band 2Gain [dB]-18+18Sets the gain of Band 2Gain [dB]-18+18Sets the gain of Band 2Gain [dB]-18+18Sets the gain of Band 3Gain [dB]-18+18Sets the bandwidth of Band 3Gain [dB]-18+18Sets the gain of Band 3Gain [dB]-18+18Sets the gain of Band 3Gain [dB]-18+18Sets the gain of Band 4PQ0.510.0Sets the bandwidth of Band 4Gain [dB]-18+18Sets the gain of Band 4PHASER-F[P]LFO [Frequency [Hz]]0.0220.00FFrequency [Hz]0.0220.00Sets the speed of the LFO-I[P]Manual0100Sets the resonance amount-gDepth0100Resonance-100+100Sets the resonance amount-f[P]Phaser Wet/ Dry-Wet, - 1:99Dry99:1sets the phaser effect balance w/Wet-Amt-100+100Sets the phaser output modei[P]Output ModeNormal, Wet Invert	P4E	P4EQ				
	а	[E]Trim	0100	Sets the parametric EQ input level		
$ \left  \begin{array}{c c c c } Q & 0.510.0 & Sets the bandwidth of band 1 \\ \hline Gain [dB] & -18+18 & Sets the gain of Band 1 \\ \hline \mbox{[Hz]} & 505.00k & Sets the center frequency of Band 2 \\ \hline \mbox{[Hz]} & 0.510.0 & Sets the bandwidth of Band 2 \\ \hline \mbox{[Gain [dB]} & -18+18 & Sets the gain of Band 2 \\ \hline \mbox{[Gain [dB]} & -18+18 & Sets the gain of Band 3 \\ \hline \mbox{[Q} & 0.510.0 & Sets the bandwidth of Band 3 \\ \hline \mbox{[Hz]} & 30010.00k & Sets the center frequency of Band 3 \\ \hline \mbox{[Hz]} & 0.010.0 & Sets the bandwidth of Band 3 \\ \hline \mbox{[Hz]} & 0.010.0 & Sets the bandwidth of Band 3 \\ \hline \mbox{[Hz]} & 0.010.0 & Sets the bandwidth of Band 3 \\ \hline \mbox{[Hz]} & 0.010.0 & Sets the bandwidth of Band 4 \\ \hline \mbox{[Hz]} & 0.020.00k & Sets the center frequency of Band 4 \\ \hline \mbox{[Hz]} & 020.00k & Sets the center frequency of Band 4 \\ \hline \mbox{[Hz]} & 0.010.0 & Sets the bandwidth of Band 4 \\ \hline \mbox{[Hz]} & 0.010.0 & Sets the bandwidth of Band 4 \\ \hline \mbox{[Hz]} & 0.010.0 & Sets the bandwidth of Band 4 \\ \hline \mbox{[Hz]} & 0.010.0 & Sets the gain of Band 4 \\ \hline \mbox{[Hz]} & 0.0.220.00k & Sets the center frequency of Band 4 \\ \hline \mbox{[Hz]} & 0.0.220.00 & Sets the gain of Band 4 \\ \hline \mbox{[Hz]} & 0.0.220.00 & Sets the speed of the LFO \\ \hline \mbox{[How Waveform Triangle, Sine Selects the LFO Waveform \\ \hline \mbox{[How Waveform Triangle, Sine Selects the LFO Waveform \\ \hline \mbox{[Hom Numal]} & 0100 & Sets the requency to which the effect is applied \\ \hline \mbox{[Popth]} & 0100 & Sets the resonance amount \\ \hline \mbox{[Popth]} & 0100 & Sets the resonance amount \\ \hline \mbox{[Popth]} & 0100 & Sets the phaser effect balance \\ \hline \mbox{[Popth]} & 0100 & Sets the Phaser effect balance \\ \hline \mbox{[Popth]} & 0100 & Sets the Wet/Dry modulation \\ \hline \mbox{[Popth]} & -100+100 & Sets the Wet/Dry modulation \\ \hline \mbox{[Popth]} & 0100 & Sets the phaser output mode \\ \hline \mbox{[Popth]} & 0100 & Sets the phaser output mode \\ \hline \mbox{[Popth]} & 0100 & Sets the phaser output mode \\ \hline \mb$	b		201.00k	Sets the center frequency of Band 1		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	b	Q	0.510.0	Sets the bandwidth of Band 1		
		Gain [dB]	-18+18	Sets the gain of Band 1		
			505.00k	Sets the center frequency of Band 2		
d       [E]B3 Cutoff [Hz]       30010.00k       Sets the center frequency of Band 3         Q       0.510.0       Sets the bandwidth of Band 3         Gain [dB]       -18+18       Sets the gain of Band 3         Q       0.510.0       Sets the center frequency of Band 4         Q       0.510.0       Sets the bandwidth of Band 3         Gain [dB]       -18+18       Sets the center frequency of Band 4         Q       0.510.0       Sets the bandwidth of Band 4         Gain [dB]       -18+18       Sets the gain of Band 4         PHASER       -       F         f       [P]LFO Frequency [Hz]       0.0220.00       Sets the speed of the LFO         f       [P]Manual       0100       Sets the frequency to which the effect is applied         g       [P]Manual       0100       Sets the depth of LFO modulation         Resonance       -100+100       Sets the resonance amount       -         h       [P]Phaser Wet/ Dry       -Wet, - 1:99Ory99:1       Sets the phaser effect balance       -         i       [P]Output Mode       Normal, Wet Invert       Selects the Wet/Dry modulation amount for the phaser       -         j       wet/Dry       Dry, 1:9999:1, Wet       Balance between the wet and dry signa	с	Q	0.510.0	Sets the bandwidth of Band 2		
		Gain [dB]	-18+18	Sets the gain of Band 2		
$\begin{array}{c c c c c c } \hline Q & 0.510.0 & Sets the bandwidth of Band 3 \\ \hline Gain [dB] & -18+18 & Sets the gain of Band 3 \\ \hline Gain [dB] & -18+18 & Sets the center frequency of Band 4 \\ \hline Q & 0.510.0 & Sets the center frequency of Band 4 \\ \hline Q & 0.510.0 & Sets the bandwidth of Band 4 \\ \hline Q & 0.510.0 & Sets the bandwidth of Band 4 \\ \hline Q & 0.510.0 & Sets the bandwidth of Band 4 \\ \hline PHASER \\ \hline \\ \hline \\ Frequency [Hz] & 0.0220.00 & Sets the speed of the LFO \\ \hline \\ Frequency [Hz] & 0.0220.00 & Sets the speed of the LFO \\ \hline \\ \hline \\ FO Waveform & Triangle, Sine & Selects the LFO Waveform \\ \hline \\ \hline \\ PJManual & 0100 & Sets the depth of LFO modulation \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ Peth & 0100 & Sets the resonance amount \\ \hline \\ \hline \\ \hline \\ \\ \\ \hline \\ \\ \\ \\ \hline \\ \\ \\ \\ \hline \\ \\ \\ \\ \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$			30010.00k	Sets the center frequency of Band 3		
Provide         Image: Second sec	d	Q	0.510.0	Sets the bandwidth of Band 3		
		Gain [dB]	-18+18	Sets the gain of Band 3		
Q     0.510.0     Sets the bandwidth of Band 4       Gain [dB]     -18+18     Sets the gain of Band 4       PHASER       f     [P]LFO Frequency [Hz]     0.0220.00     Sets the speed of the LFO       FO Waveform     Triangle, Sine     Selects the LFO Waveform       g     [P]Manual     0100     Sets the frequency to which the effect is applied       Depth     0100     Sets the depth of LFO modulation       Resonance     -100+100     Sets the phaser effect balance       h     Src     OffTempo     Sets the Wet/Dry modulation amount for the phaser       i     [P]Output Mode     Normal, Wet Invert     Selects the Wet/Dry modulation amount for the phaser       j     Src     OffTempo     Table, "Dynamic Modulation sources," on page 366			50020.00k	Sets the center frequency of Band 4		
PHASER     Image: Frequency [Hz]     0.0220.00     Sets the speed of the LFO       f     [P]JFO Frequency [Hz]     0.0220.00     Sets the speed of the LFO       LFO Waveform     Triangle, Sine     Selects the LFO Waveform       g     [P]Manual     0100     Sets the frequency to which the effect is applied       g     Depth     0100     Sets the depth of LFO modulation       Resonance     -100+100     Sets the resonance amount       h     Src     OffTempo     Selects the Wet/Dry modulation amount for the phaser       i     [P]Output Mode     Normal, Wet Invert     Selects the phaser output mode       j     Src     OffTempo     Table, "Dynamic Modulation sources," on page 366	e	Q	0.510.0	Sets the bandwidth of Band 4		
f[P]LFO Frequency [Hz]0.0220.00Sets the speed of the LFOLFO WaveformTriangle, SineSelects the LFO Waveformg[P]Manual0100Sets the frequency to which the effect is appliedgDepth0100Sets the depth of LFO modulationResonance-100+100Sets the resonance amounth[P]Phaser Wet/ Dry-Wet, - 1:99Dry99:1 y.WetSets the phaser effect balancehSrcOffTempoSelects the Wet/Dry modulation amount for the phaseri[P]Output ModeNormal, Wet InvertSelects the phaser output modejSrcOffTempoTable, "Dynamic Modulation signal	DUIA	Gain [dB]	-18+18	Sets the gain of Band 4		
f Frequency [Hz]0.0220.00Sets the speed of the LFOLFO WaveformTriangle, SineSelects the LFO Waveformg[P]Manual0100Sets the frequency to which the effect is appliedgDepth0100Sets the depth of LFO modulationResonance-100+100Sets the resonance amounth[P]Phaser Wet/ Dry-Wet, - 1.99Dry99:1fSrcOffTempoSelects the Wet/Dry modulation source for the phaseri[P]Output ModeNormal, Wet InvertSelects the phaser output modejSrcOffTempoTable, "Dynamic Modulation signal	PHA	SER	•			
IP]Manual       0100       Sets the frequency to which the effect is applied         g       Depth       0100       Sets the depth of LFO modulation         Resonance       -100+100       Sets the resonance amount         h       [P]Phaser Wet/       -Wet, - 1:99Dry99:1       Sets the phaser effect balance         h       Src       OffTempo       Selects the Wet/Dry modulation source for the phaser         i       [P]Output Mode       Normal, Wet Invert       Selects the phaser output mode         j       Src       OffTempo       Selects the phaser output mode         Src       OffTempo       Selects the phaser output mode         j       Src       OffTempo       Selects the phaser output mode	f		0.0220.00	Sets the speed of the LFO		
IP]Manual     0100     effect is applied       g     Depth     0100     Sets the depth of LFO modulation       Resonance     -100+100     Sets the resonance amount       h     [P]Phaser Wet/ Dry     -Wet, - 1:99Dry99:1 ; Wet     Sets the phaser effect balance       h     Src     OffTempo     Selects the Wet/Dry modulation source for the phaser       i     [P]Output Mode     Normal, Wet Invert     Selects the phaser output mode       j     Src     OffTempo     Table, "Dry modulation amount for the phaser		LFO Waveform	Triangle, Sine	Selects the LFO Waveform		
Besonance       -100+100       Sets the resonance amount         Resonance       -100+100       Sets the resonance amount         Image: Pipe Asser Wet/ Dry       -Wet, - 1:99Dry99:1       Sets the phaser effect balance         Image: Pipe Asser Wet/ Dry       -Wet, - 1:99Dry99:1       Sets the phaser effect balance         Image: Pipe Asser Wet/ Dry       OffTempo       Selects the Wet/Dry modulation source for the phaser         Image: Pipe Asser Wet/ Amt       -100+100       Sets the Wet/Dry modulation amount for the phaser         Image: Pipe Asser Wet/ Mode       Normal, Wet Invert       Selects the phaser output mode         Image: Wet/Dry       Dry, 1:9999:1, Wet       Balance between the wet and dry signal         Image: Src       OffTempo       Table, "Dynamic Modulation sources," on page 366		[P]Manual	0100	Sets the frequency to which the effect is applied		
kesonance       -100+100         kesonance       -100+100         b       -100+100         f       Src         Amt       -100+100         Sets the Wet/Dry modulation source for the phaser         i       PlOutput Mode         Normal, Wet Invert       Selects the phaser output mode         j       Src         Src       OffTempo         Sets the Wet/Dry modulation amount for the phaser         i       PlOutput Mode         Normal, Wet Invert       Selects the phaser output mode         j       Src       OffTempo         Signal       Signal	g	Depth	0100	Sets the depth of LFO modulation		
IPProduct Dry         1:99Dry99:1         Sets the phaser effect balance           h         Src         OffTempo         Selects the Wet/Dry modulation source for the phaser           Amt         -100+100         Sets the Wet/Dry modulation amount for the phaser           i         [P]Output Mode         Normal, Wet Invert         Selects the phaser output mode           j         Wet/Dry         Dry, 1:9999:1, Balance between the wet and dry signal           j         Src         OffTempo         Table, "Dynamic Modulation sources," on page 366		Resonance	-100+100	Sets the resonance amount		
Site         Offtempo         source for the phaser           Amt         -100+100         Sets the Wet/Dry modulation amount for the phaser           i         [P]Output Mode         Normal, Wet Invert         Selects the phaser output mode           wet/Dry         Dry, 1:9999:1, Wet         Balance between the wet and dry signal           j         Src         OffTempo         Table , "Dynamic Modulation sources," on page 366			1:99Dry99:1	Sets the phaser effect balance		
i     IP]Output Mode     Normal, Wet Invert     Selects the phaser output mode       j     Wet/Dry     Dry, 1:9999:1, Wet     Balance between the wet and dry signal       j     Src     OffTempo     Table , "Dynamic Modulation sources," on page 366	h	Src	OffTempo	Selects the Wet/Dry modulation source for the phaser		
I     Mode     Wet Invert     Selects the phaser output mode       Wet/Dry     Dry, 1:9999:1, Wet     Balance between the wet and dry signal       j     Src     OffTempo       Table, "Dynamic Modulation sources," on page 366		Amt	-100+100			
j Src OffTempo Table , "Dynamic Modulation sources," on page 366	i			Selects the phaser output mode		
sources," on page 366		Wet/Dry				
Amt –100+100 Amount of modulation source	j	Src	OffTempo			
		Amt	-100+100	Amount of modulation source		

### 82: P4EQ - Mt. Delay (Parametric 4-Band EQ -Multitap Delay)

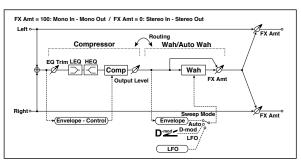
This effect combines a mono four-band parametric equalizer and a multitap delay.



P4E	Q			
а	[E]Trim	0100	Sets the parametric EQ input level	
	[E]B1 Cutoff [Hz]	201.00k	Sets the center frequency of Band 1	
b	Q	0.510.0	Sets the bandwidth of Band 1	
	Gain [dB]	-18+18	Sets the gain of Band 1	
	[E]B2 Cutoff [Hz]	505.00k	Sets the center frequency of Band 2	
с	Q	0.510.0	Sets the bandwidth of Band 2	
	Gain [dB]	-18+18	Sets the gain of Band 2	
	[E]B3 Cutoff [Hz]	30010.00k	Sets the center frequency of Band 3	
d	Q	0.510.0	Sets the bandwidth of Band 3	
	Gain [dB]	-18+18	Sets the gain of Band 3	
	[E]B4 Cutoff [Hz]	50020.00k	Sets the center frequency of Band 4	
e	Q	0.510.0	Sets the bandwidth of Band 4	
	Gain [dB]	-18+18	Sets the gain of Band 4	
MUI	LTITAP DELAY		·	
f	[D]Tap1 Time [msec]	0.01360.0	Sets the Tap1 delay time	
	Tap1 Level	0100	Sets the Tap1 output level	
a	[D]Tap2Time [msec]	0.01360.0	Sets the Tap2 delay time	
g	Feedback (Tap2)	-100+100	Sets the Tap2 feedback amount	
h	[D]High Damp [%]	0100	Sets the damping amount in the high range	
	[D]Mt.Delay Wet/Dry	Dry, 1:9999:1, Wet	Sets the multitap delay effect balance	
i	Src	OffTempo	Selects the Wet/Dry modulation source for the multitap delay	
	Amt	-100+100	Sets the Wet/Dry modulation amount for the multitap delay	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
j	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

### 83: Comp - Wah (Compressor - Wah/Auto Wah)

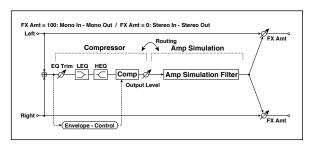
This effect combines a mono compressor and a wah. You can change the order of the connection.



CON	MPRESSOR			
а	[C] Sensitivity	1100	Sets the sensitivity	
b	[C]Attack	1100	Sets the attack level	
b	Output Level	0100	Sets the compressor output level	
с	[C]EQ Trim	0100	Sets the EQ input level	
d	[C]Pre LEQ Gain [dB]	-15+15	Sets the gain of Low EQ	
u	Pre HEQ Gain [dB]	-15+15	Sets the gain of High EQ	
WAI	Ĥ			
e	[W]Frequency Bottom	0100	Sets the lower limit of the wah center frequency	
e	Frequency Top	0100	Sets the upper limit of the wah center frequency	
f	[w]Sweep Mode	Auto, D-mod, LFO	Selects the control from auto-wah, modulation source, and LFO	
1	Src	OffTempo	Selects the modulation source for the wah when Sweep Mode=D-mod	
	[W]LFO Frequency [Hz]	0.0220.00	Sets the speed of the LFO	
g	Resonance	0100	Sets the resonance amount	
	LPF	Off, On	Switches the wah low pass filter on and off	
	[W]Wet/Dry	Dry, 1 : 9999 : 1, Wet	Sets the wah effect balance	
h	Src	OffTempo	Selects the Wet/Dry modulation source for the wah	
	Amt	-100+100	Sets the Wet/Dry modulation amount for the wah	
i	Routing	Comp Wah, Wah Comp	Switches the order of the compressor and wah	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
j	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

### 84: Comp - Amp Sim (Compressor - Amp Simulation)

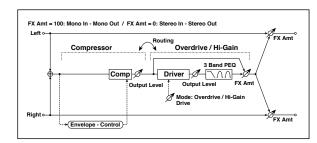
This effect combines a mono compressor and an amp simulation. You can change the order of the effects.



CON	COMPRESSOR				
а	[C] Sensitivity	1100	Sets the sensitivity		
b	[C]Attack	1100	Sets the attack level		
D.	Output Level	0100	Sets the compressor output level		
с	[C]EQ Trim	0100	Sets the EQ input level		
d	[C]Pre LEQ Gain [dB]	-15+15	Sets the gain of Low EQ		
u	Pre HEQ Gain [dB]	-15+15	Sets the gain of High EQ		
AMF	P SIM				
e	[A]Amplifier Type	SS, EL84, 6L6	Selects the type of guitar amplifier		
f	Routing	Comp Amp, Amp Comp	Switches the order of the compressor and amp simulation		
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal		
g	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366		
	Amt	-100+100	Amount of modulation source		

# 85: Comp - OD/HiGain (Compressor - Overdrive/Hi.Gain)

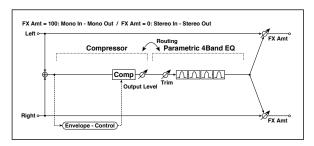
This effect combines a mono compressor and an overdrive/highgain distortion. You can change the order of the effects.



CON	COMPRESSOR				
а	[C] Sensitivity	1100	Sets the sensitivity		
h	[C]Attack	1100	Sets the attack level		
b	Output Level	0100	Sets the compressor output level		
OD/	HI-GAIN				
c	[O] Drive Mode	Overdrive, Hi- Gain	Switches between overdrive and high-gain distortion		
C	Drive	1100	Sets the degree of distortion		
	[O]Output Level	050	Sets the overdrive output level		
d	Src	OffTempo	Selects the modulation source for the overdrive output level		
	Amt	-50+50	Sets the modulation amount of the overdrive output level		
e	[O]Low Cutoff [Hz]	201.00k	Sets the center frequency for Low EQ (shelving type)		
	Gain [dB]	-18+18	Sets the gain of Low EQ		
	[O]Mid1 Cutoff [Hz]	30010.00k	Sets the center frequency for Mid/ High EQ 1 (peaking type)		
f	Q	0.510.0	Sets the band width of Mid/High EQ 1		
	Gain [dB]	-18+18	Sets the gain of Mid/High EQ 1		
	[O]Mid2 Cutoff [Hz]	50020.00k	Sets the center frequency for Mid/ High EQ 2 (peaking type)		
g	Q	0.510.0	Sets the band width of Mid/High EQ 2		
	Gain [dB]	-18+18	Sets the gain of Mid/High EQ 2		
	[O]Wet/Dry	Dry, 1 : 9999 : 1, Wet	Sets the overdrive effect balance		
h	Src	OffTempo	Selects the Wet/Dry modulation source for the overdrive		
	Amt	-100+100	Sets the Wet/Dry modulation amount for the overdrive		
i	Routing	Comp OD/ HG, OD/HG Comp	Switches the order of the compressor and overdrive		
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal		
j	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366		
	Amt	-100+100	Amount of modulation source		

### 86: Comp - P4EQ (Compressor - Parametric 4-Band EQ)

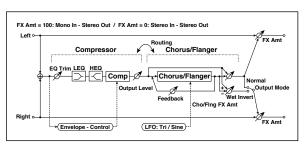
This effect combines a mono compressor and a four-band parametric equalizer. You can change the order of the effects.



COMPRESSOR				
a	[C] Sensitivity	1100	Sets the sensitivity	
b	[C]Attack	1100	Sets the attack level	
b	Output Level	0100	Sets the compressor output level	
P4E	Q		·	
с	[E]Trim	0100	Sets the parametric EQ input level	
	[E]B1 Cutoff [Hz]	201.00k	Sets the center frequency of Band 1	
d	Q	0.510.0	Sets the bandwidth of Band 1	
	Gain [dB]	-18+18	Sets the gain of Band 1	
	[E]B2 Cutoff [Hz]	505.00k	Sets the center frequency of Band 2	
e	Q	0.510.0	Sets the bandwidth of Band 2	
	Gain [dB]	-18+18	Sets the gain of Band 2	
	[E]B3 Cutoff [Hz]	30010.00k	Sets the center frequency of Band 3	
f	Q	0.510.0	Sets the bandwidth of Band 3	
	Gain [dB]	-18+18	Sets the gain of Band 3	
	[E]B4 Cutoff [Hz]	50020.00k	Sets the center frequency of Band 4	
g	Q	0.510.0	Sets the bandwidth of Band 4	
	Gain [dB]	-18+18	Sets the gain of Band 4	
h	Routing	Comp P4EQ, P4EQ Comp	Switches the order of the compressor and parametric EQ	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
i	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	_
	Amt	-100+100	Amount of modulation source	

### 87: Comp - Cho/Flng (Compressor - Chorus/Flanger)

This effect combines a mono compressor and a chorus/flanger. You can change the order of the effects.



CON	MPRESSOR			
а	[C] Sensitivity	1100	Sets the sensitivity	
b	[C]Attack	1100	Sets the attack level	
D	Output Level	0100	Sets the compressor output level	
с	[C]EQ Trim	0100	Sets the EQ input level	
d	[C]Pre LEQ Gain [dB]	-15+15	Sets the gain of Low EQ	
u	Pre HEQ Gain [dB]	-15+15	Sets the gain of High EQ	
CHC	DRUS/FLANGER	•	·	
e	[F]LFO Frequency [Hz]	0.0220.00	Sets the speed of the LFO	
	LFO Waveform	Triangle, Sine	Selects the LFO Waveform	
	[F]Delay Time [msec]	0.01350.0	Sets the delay time	
f	Depth	0100	Sets the depth of LFO modulation	
	Feedback	-100+100	Sets the feedback amount	
	[F]Cho/Flng Wet/Dry	-Wet, - 1:99Dry99:1 , Wet	Sets the effect balance of the chorus/flanger	
g	Src	OffTempo	Selects the Wet/Dry modulation source for the chorus/flanger	
	Amt	-100+100	Sets the Wet/Dry modulation amount for the chorus/flanger	
h	[F]Output Mode	Normal, Wet Invert	Selects the output mode for the chorus/flanger	
i	Routing	Comp Flanger, Flanger Comp	Switches the order of the compressor and chorus/flanger	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
j	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

#### h: [F]Output Mode i: Routing

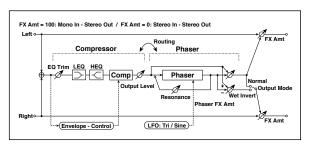
When Wet Invert is selected, the right channel phase of the chorus/flanger effect sound is inverted. This creates pseudo-stereo effects and adds spread.

However, if a mono-input type effect is connected after this effect, the left and right sounds may cancel each other, eliminating the chorus/flanger effects.

When "Routing" is set to Flangerç Comp, "[F]Output Mode" will be set to Normal.

### 88: Comp - Phaser (Compressor - Phaser)

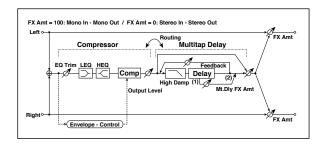
This effect combines a mono compressor and a phaser. You can change the order of the effects.



CON	COMPRESSOR				
а	[C] Sensitivity	1100	Sets the sensitivity		
b	[C]Attack	1100	Sets the attack level		
a	Output Level	0100	Sets the compressor output level		
с	[C]EQ Trim	0100	Sets the EQ input level		
d	[C]Pre LEQ Gain [dB]	-15+15	Sets the gain of Low EQ		
u	Pre HEQ Gain [dB]	-15+15	Sets the gain of High EQ		
PHA	SER				
e	[P]LFO Frequency [Hz]	0.0220.00	Sets the speed of the LFO		
	LFO Waveform	Triangle, Sine	Selects the LFO Waveform		
	[P]Manual	0100	Sets the frequency to which the effect is applied		
f	Depth	0100	Sets the depth of LFO modulation		
	Resonance	-100+100	Sets the resonance amount		
	[P]Phaser Wet/ Dry	-Wet, - 1:99Dry99:1 , Wet	Sets the phaser effect balance		
g	Src	OffTempo	Selects the Wet/Dry modulation source for the phaser		
	Amt	-100+100	Sets the Wet/Dry modulation amount for the phaser		
h	[F]Output Mode	Normal, Wet Invert	Selects the phaser output mode		
i	Routing	Comp Phaser, Phaser Comp	Switches the order of the compressor and phaser		
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal		
j	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366		
f g h i	Amt	-100+100	Amount of modulation source		

# 89: Comp - Mt. Delay (Compressor - Multitap Delay)

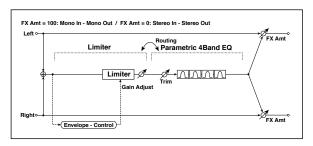
This effect combines a mono compressor and a multitap delay. You can change the order of the effects.



CON	COMPRESSOR				
а	[C] Sensitivity	1100	Sets the sensitivity		
b	[C]Attack	1100	Sets the attack level		
D	Output Level	0100	Sets the compressor output level		
с	[C]EQ Trim	0100	Sets the EQ input level		
d	[C]Pre LEQ Gain [dB]	-15+15	Sets the gain of Low EQ		
u	Pre HEQ Gain [dB]	-15+15	Sets the gain of High EQ		
MUI	LTITAP DELAY				
e	[D]Tap1 Time [msec]	0.01360.0	Sets the Tap1 delay time		
e	Tap1 Level	0100	Sets the Tap1 output level		
f	[D]Tap2 Time [msec]	0.01360.0	Sets the Tap2 delay time		
	Feedback (Tap2)	-100+100	Sets the Tap2 feedback amount		
g	[D]High Damp [%]	0100	Sets the damping amount in the high range		
	[D]Mt.Delay Wet/Dry	Dry, 1 : 9999 : 1, Wet	Sets the multitap delay effect balance		
h	Src	OffTempo	Selects the Wet/Dry modulation source for the multitap delay		
	Amt	-100+100	Sets the Wet/Dry modulation amount for the multitap delay		
i	Routing	Comp Mt.Delay, Mt.Delay Comp	Switches the order of the compressor and multitap delay		
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal		
j	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366		
	Amt	-100+100	Amount of modulation source		

### 90: Limiter - P4EQ (Limiter - Parametric 4-Band EQ)

This effect combines a mono limiter and a four-band parametric equalizer. You can change the order of the effects.



LIM	ITER			
	[L]Ratio	1.0 : 1 50.0 : 1, Inf : 1	Sets the signal compression ratio	
а	Threshold [dB]	-400	Sets the level above which the compressor is applied	
	[L]Attack	1100	Sets the attack time	
b	Release	1100	Sets the release time	
с	[L]Gain Adjust [dB]	–lnf, –38+24	Sets the limiter output gain	
P4E	Q	•	· · ·	
d	[E]Trim	0100	Sets the parametric EQ input level	
	[E]B1 Cutoff [Hz]	201.00k	Sets the center frequency of Band 1	
e	Q	0.510.0	Sets the bandwidth of Band 1	
	Gain [dB]	-18+18	Sets the gain of Band 1	
	[E]B2 Cutoff [Hz]	505.00k	Sets the center frequency of Band 2	
f	Q	0.510.0	Sets the bandwidth of Band 2	
	Gain [dB]	-18+18	Sets the gain of Band 2	
	[E]B3 Cutoff [Hz]	30010.00k	Sets the center frequency of Band 3	
g	Q	0.510.0	Sets the bandwidth of Band 3	
	Gain [dB]	-18+18	Sets the gain of Band 3	
	[E]B4 Cutoff [Hz]	50020.00k	Sets the center frequency of Band 4	
h	Q	0.510.0	Sets the bandwidth of Band 4	
	Gain [dB]	-18+18	Sets the gain of Band 4	
i	Routing	Limiter P4EQ, P4EQ Limiter	Switches the order of the limiter and parametric EQ	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
j	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

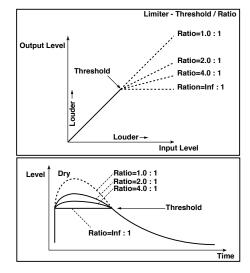
# a: [L]Ratio

# a: Threshold [dB]

# c: [L]Gain Adjust [dB]

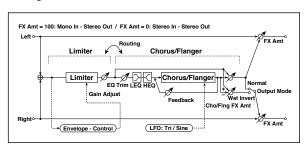
This parameter sets the signal compression "[L]Ratio". Compression is applied only when the signal level exceeds the "Threshold" value.

Adjust the output level using the "Gain Adjust" parameter, since compression causes the entire level to be reduced.



### 91: Limiter - Cho/Flng (Limiter - Chorus/Flanger)

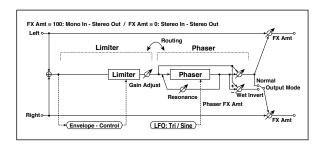
This effect combines a mono limiter and a chorus/flanger. You can change the order of the effects.



LIM	ITER	n		
a b c CHO d f f h i	[L]Ratio	1.0 : 1 50.0 : 1, lnf : 1	Sets the signal compression ratio	
	Threshold [dB]	-400	Sets the level above which the compressor is applied	
b c CHO d f f h i	[L]Attack	1100	Sets the attack time	
b	Release	1100	Sets the release time	
с	[L]Gain Adjust [dB]	–Inf, –38+24	Sets the limiter output gain	
CHC	DRUS/FLANGER			
d	[F]LFO Frequency [Hz]	0.0220.00	Sets the speed of the LFO	
a	LFO Waveform	Triangle, Sine	Selects the LFO Waveform	
	[F]Delay Time [msec]	0.01350.0	Sets the delay time	
e	Depth	0100	Sets the depth of LFO modulation	
	Feedback	-100+100	Sets the feedback amount	
f	[F]EQ Trim	0100	Sets the EQ input level	
a	[F]Pre LEQ Gain [dB]	-15+15	Sets the gain of Low EQ	
g	Pre HEQ Gain [dB]	-15+15	Sets the gain of High EQ	
	[F]Cho/Flng Wet/Dry	-Wet, - 1:99Dry99:1 , Wet	Sets the effect balance of the chorus/flanger	
h	Src	OffTempo	Selects the Wet/Dry modulation source for the chorus/flanger	
	Amt	-100+100	Sets the Wet/Dry modulation amount for the chorus/flanger	
	[F]Output Mode	Normal, Wet Invert	Selects the output mode for the chorus/flanger	
i	Routing	Limiter Flanger, Flanger Limiter	Switches the order of the limiter and chorus/flanger	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
j	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

### 92: Limiter - Phaser

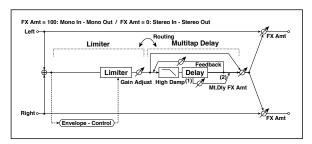
This effect combines a mono limiter and a phaser. You can change the order of the effects.



LIM	ITER			
_	[L]Ratio	1.0 : 1 50.0 : 1, lnf : 1	Sets the signal compression ratio	
а	Threshold [dB]	-400	Sets the level above which the compressor is applied	
b	[L]Attack	1100	Sets the attack time	
D	Release	1100	Sets the release time	
с	[L]Gain Adjust [dB]	−lnf, −38+24	Sets the limiter output gain	
PHA	SER			
d	[P]LFO Frequency [Hz]	0.0220.00	Sets the speed of the LFO	
u	LFO Waveform	Triangle, Sine	Selects the LFO Waveform	
	[P]Manual	0100	Sets the frequency to which the effect is applied	
e	Depth	0100	Sets the depth of LFO modulation	
	Resonance	-100+100	Sets the resonance amount	
	[P]Phaser Wet/ Dry	-Wet, - 1:99Dry99:1 , Wet	Sets the phaser effect balance	
f	Src	OffTempo	Selects the phaser's Wet/Dry modulation source	
	Amt	-100+100	Sets the phaser's Wet/Dry modulation amount	
g	[P]Output Mode	Normal, Wet Invert	Selects the phaser output mode	
h	Routing	Limiter Phaser, Phaser Limiter	Switches the order of the limiter and phaser	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
i	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

# 93: Limiter - Mt.Delay (Limiter - Multitap Delay)

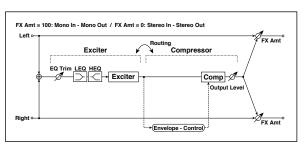
This effect combines a mono limiter and a multitap delay. You can change the order of the effects.



LIM	ITER			
	[L]Ratio	1.0 : 1 50.0 : 1, Inf : 1	Sets the signal compression ratio	
а	Threshold [dB]	-400	Sets the level above which the compressor is applied	
b	[L]Attack	1100	Sets the attack time	
b	Release	1100	Sets the release time	
с	[L]Gain Adjust [dB]	–Inf, –38+24	Sets the limiter output gain	
MUI	LTITAP DELAY			
d	[D]Tap1 Time [msec]	0.01360.0	Sets the Tap1 delay time	
	Tap1 Level	0100	Sets the Tap1 output level	
e	[D]Tap2 Time [msec]	0.01360.0	Sets the Tap2 delay time	
	Feedback	-100+100	Sets the Tap2 feedback amount	
f	[D]High Damp [%]	0100	Sets the damping amount in the high range	
	[D]Mt.Delay Wet/Dry	Dry, 1:9999:1, Wet	Sets the multitap delay effect balance	
g	Src	OffTempo	Selects the multitap delay's Wet/Dry modulation source	
	Amt	-100+100	Sets the multitap delay's Wet/Dry modulation amount	
h	Routing	Limiter Mt.Delay, Mt.Delay Limiter	Switches the order of the limiter and multitap delay	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
i	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

# 94: Exciter - Comp (Exciter -Compressor)

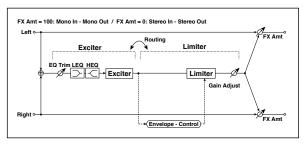
This effect combines a mono exciter and a compressor. You can change the order of the effects.



EXC	EXCITER				
а	[X]Exciter Blend	-100+100	Sets the intensity (depth) of the Exciter effect		
b	[X]Emphasis Frequency	070	Sets the frequency range to be emphasized		
с	[X]EQ Trim	0100	Sets the EQ input level		
Ь	[X]Pre LEQ Gain [dB]	-15+15	Sets the gain of Low EQ		
a	Pre HEQ Gain [dB]	-15+15	Sets the gain of High EQ		
CON	<b>APRESSOR</b>	•			
e	[C] Sensitivity	1100	Sets the sensitivity		
f	[C]Attack	1100	Sets the attack level		
l '	Output Level	0100	Sets the compressor output level		
g	Routing	Exciter Comp, Comp Exciter	Switches the order of the exciter and compressor		
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal		
h	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366		
	Amt	-100+100	Amount of modulation source		

### 95: Exciter - Limiter

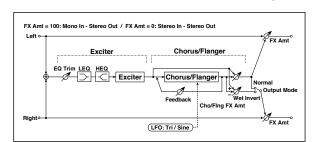
This effect combines a mono exciter and a limiter. You can change the order of the effects.



EXC	ITER			
а	[X]Exciter Blend	-100+100	Sets the intensity (depth) of the Exciter effect	
b	[X]Emphasis Frequency	070	Sets the frequency range to be emphasized	
с	[X]Trim	0100	Sets the EQ input level	
d	[X]Pre LEQ Gain [dB]	-15+15	Sets the gain of Low EQ	
u	Pre HEQ Gain [dB]	-15+15	Sets the gain of High EQ	
LIM	ITER			
e	[L]Ratio	1.0 : 1 50.0 : 1, lnf : 1	Sets the signal compression ratio	
f	[L]Threshold [dB]	-400	Sets the level above which the compressor is applied	
g	[L]Attack	1100	Sets the attack time	
	Release	1100	Sets the release time	
h	[L]Gain Adjust [dB]	–Inf, –38+24	Sets the limiter output gain	
i	Routing	Exciter Limiter, Limiter Exciter	Switches the order of the exciter and limiter	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
j	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

# 96: Exciter - Cho/Flng (Exciter - Chorus/Flanger)

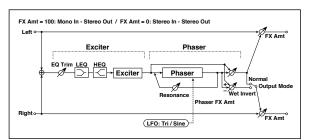
This effect combines a mono limiter and a chorus/flanger.



EXC	ITER		
а	[X]Exciter Blend	-100+100	Sets the intensity (depth) of the Exciter effect
b	[X]Emphasis Frequency	070	Sets the frequency range to be emphasized
с	[X]Trim	0100	Sets the EQ input level
d	[X]Pre LEQ Gain [dB]	-15+15	Sets the gain of Low EQ
u	Pre HEQ Gain [dB]	-15+15	Sets the gain of High EQ
СНС	DRUS/FLANGER	•	·
e	[F]LFO Frequency [Hz]	0.0220.00	Sets the speed of the LFO
	LFO Waveform	Triangle, Sine	Selects the LFO Waveform
f	[F]Delay Time [msec]	0.01350.0	Sets the delay time
	Depth	0100	Sets the depth of LFO modulation
	Feedback	-100+100	Sets the feedback amount
	[F]Cho/Flng Wet/Dry	-Wet, - 1:99Dry99:1 , Wet	Sets the effect balance of the chorus/flanger
g	Src	OffTempo	Selects the Wet/Dry modulation source for the chorus/flanger
	Amt	-100+100	Sets the Wet/Dry modulation amount for the chorus/flanger
h	[F]Output Mode	Normal, Wet Invert	Selects the output mode for the chorus/flanger
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal
i	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366
	Amt	-100+100	Amount of modulation source

### 97: Exciter - Phaser

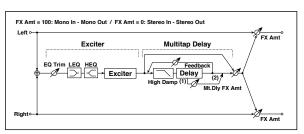
This effect combines a mono limiter and a phaser.



EXC	ITER			
а	[X]Exciter Blend	-100+100	Sets the intensity (depth) of the Exciter effect	
b	[X]Emphasis Frequency	070	Sets the frequency range to be emphasized	
с	[X]Trim	0100	Sets the EQ input level	
d	[X]Pre LEQ Gain [dB]	-15+15	Sets the gain of Low EQ	
u	Pre HEQ Gain [dB]	-15+15	Sets the gain of High EQ	
PHA	SER			
e	[P]LFO Frequency [Hz]	0.0220.00	Sets the speed of the LFO	
	LFO Waveform	Triangle, Sine	Selects the LFO Waveform	
	[P]Manual	0100	Sets the frequency to which the effect is applied	
f	Depth	0100	Sets the depth of LFO modulation	
	Resonance	-100+100	Sets the resonance amount	
	[P]Phaser Wet/ Dry	-Wet, - 1:99Dry99:1, Wet	Sets the phaser effect balance	
g	Src	OffTempo	Selects the Wet/Dry modulation source for the phaser	
	Amt	-100+100	Sets the Wet/Dry modulation amount for the phaser	
h	[P]Output Mode	Normal, Wet Invert	Selects the phaser output mode	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
i	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

# 98: Exciter - Mt.Delay (Exciter - Multitap Delay)

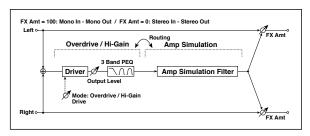
This effect combines a mono exciter and a multitap delay.



FYC	ITER			
a	[X]Exciter Blend	-100+100	Sets the intensity (depth) of the Exciter effect	
b	[X]Emphasis Frequency	070	Sets the frequency range to be emphasized	
с	[X]Trim	0100	Sets the EQ input level	
Ь	[X]Pre LEQ Gain [dB]	-15+15	Sets the gain of Low EQ	
u	Pre HEQ Gain [dB]	-15+15	Sets the gain of High EQ	
MU	LTITAP DELAY			
e	[D]Tap1 Time [msec]	0.01360.0	Sets the Tap1 delay time	
	Tap1 Level	0100	Sets the Tap1 output level	
£	[D]Tap2 Time [msec]	0.01360.0	Sets the Tap2 delay time	
f	Feedback (Tap2)	-100+100	Sets the Tap2 feedback amount	
g	[D]High Damp [%]	0100	Sets the damping amount in the high range	
	[D]Mt.Delay Wet/Dry	Dry, 1:9999:1, Wet	Sets the multitap delay effect balance	
h	Src	OffTempo	Selects the Wet/Dry modulation source for the multitap delay	
	Amt	-100+100	Sets the Wet/Dry modulation amount for the multitap delay	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
i	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

### 99: OD/HG - Amp Sim (Overdrive/Hi.Gain -Amp Simulation)

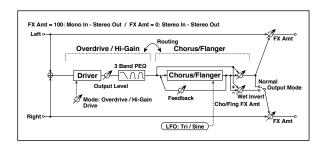
This effect combines a mono overdrive/high-gain distortion and an amp simulation. You can change the order of the effects.



OD/	/HI-GAIN				
а	[O]Drive Mode	Overdrive, Hi- Gain	Switches between overdrive and high-gain distortion		
	Drive	1100	Sets the degree of distortion		
	[O]Output Level	050	Sets the overdrive output level		
b	Src	OffTempo	Selects the modulation source for the overdrive output level		
	Amt	-50+50	Sets the modulation amount of the overdrive output level		
e	[O]Low Cutoff [Hz]	201.00k	Sets the center frequency for Low EQ (shelving type)		
	Gain [dB]	-18+18	Sets the gain of Low EQ		
	[O]Mid1 Cutoff [Hz]	30010.00k	Sets the center frequency for Mid/ High EQ 1 (peaking type)		
f	Q	0.510.0	Sets the band width of Mid/High EQ 1		
	Gain [dB]	-18+18	Sets the gain of Mid/High EQ 1		
	[O]Mid2 Cutoff [Hz]	50020.00k	Sets the center frequency for Mid/ High EQ 2 (peaking type)		
g	Q	0.510.0	Sets the band width of Mid/High EQ 2		
	Gain [dB]	-18+18	Sets the gain of Mid/High EQ 2		
AMI	P SIM				
h	[A]Amplifier Type	SS, EL84, 6L6	Selects the type of guitar amplifie		
i	Routing	OD/HG Amp, Amp OD/HG	Switches the order of the overdrive and amp		
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal		
e f AMPP h	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366		
	Amt	-100+100	Amount of modulation source		

# 100: OD/HG - Cho/Flng (Overdrive/Hi.Gain - Chorus/Flanger)

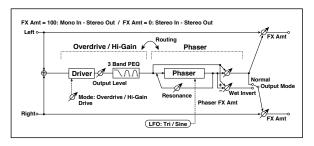
This effect combines a mono overdrive/high-gain distortion and a chorus/flanger. You can change the order of the effects.



OD/	HI-GAIN			
00,		Overdrive, Hi-	Switches between overdrive and	
a b f g	[O]Drive Mode	Gain	high-gain distortion	
	Drive	1100	Sets the degree of distortion	
	[O]Output Level	050	Sets the overdrive output level	
b	Src	OffTempo	Selects the modulation source for the overdrive output level	
	Amt	-50+50	Sets the modulation amount of the overdrive output level	
e	[O]Low Cutoff [Hz]	201.00k	Sets the center frequency for Low EQ (shelving type)	
	Gain [dB]	-18+18	Sets the gain of Low EQ	
	[O]Mid1 Cutoff [Hz]	30010.00k	Sets the center frequency for Mid/ High EQ 1 (peaking type)	
f	Q	0.510.0	Sets the band width of Mid/High EQ 1	
	Gain [dB]	-18+18	Sets the gain of Mid/High EQ 1	
	[O]Mid2 Cutoff [Hz]	50020.00k	Sets the center frequency for Mid/ High EQ 2 (peaking type)	
g	Q	0.510.0	Sets the band width of Mid/High EQ 2	
	Gain [dB]	-18+18	Sets the gain of Mid/High EQ 2	
CHC	RUS/FLANGER	•	·	
h	[F]LFO Frequency [Hz]	0.0220.00	Sets the speed of the LFO	
	LFO Waveform	Triangle, Sine	Selects the LFO Waveform	
	[F]Delay Time [msec]	0.01350.0	Sets the delay time	
i	Depth	0100	Sets the depth of LFO modulation	
	Feedback	-100+100	Sets the feedback amount	
	[F]Cho/Flng Wet/Dry	-Wet, - 1:99Dry99:1 , Wet	Sets the effect balance of the chorus/flanger	
j	Src	OffTempo	Selects the Wet/Dry modulation source for the chorus/flanger	
	Amt	-100+100	Sets the Wet/Dry modulation amount for the chorus/flanger	
	[F]Output Mode	Normal, Wet Invert	Selects the output mode for the chorus/flanger	
k	Routing	OD/HG Flanger, Flanger OD/ HG	Switches the order of the overdrive and chorus / flanger	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
Ι	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

### 101: OD/HG - Phaser (Overdrive/Hi.Gain - Phaser)

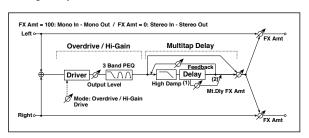
This effect combines a mono overdrive/high-gain distortion and a phaser. You can change the order of the effects.



OD/	HI-GAIN			
а	[O]Drive Mode	Overdrive, Hi- Gain	Switches between overdrive and high-gain distortion	
d	Drive	1100	Sets the degree of distortion	
	[0]Output Level	050	Sets the overdrive output level	
b	Src	OffTempo	Selects the modulation source for the overdrive output level	
	Amt	-50+50	Sets the modulation amount of the overdrive output level	
e	[O]Low Cutoff [Hz]	201.00k	Sets the center frequency for Low EQ (shelving type)	
	Gain [dB]	-18+18	Sets the gain of Low EQ	
	[O]Mid1 Cutoff [Hz]	30010.00k	Sets the center frequency for Mid/ High EQ 1 (peaking type)	
f	Q	0.510.0	Sets the band width of Mid/High EQ 1	
	Gain [dB]	-18+18	Sets the gain of Mid/High EQ 1	
	[O]Mid2 Cutoff [Hz]	50020.00k	Sets the center frequency for Mid/ High EQ 2 (peaking type)	
g	Q	0.510.0	Sets the band width of Mid/High EQ 2	
	Gain [dB]	-18+18	Sets the gain of Mid/High EQ 2	
PHA	SER			
h	[P]LFO Frequency [Hz]	0.0220.00	Sets the speed of the LFO	
	LFO Waveform	Triangle, Sine	Selects the LFO Waveform	
	[P]Manual	0100	Sets the frequency to which the effect is applied	
i	Depth	0100	Sets the depth of LFO modulation	
	Resonance	-100+100	Sets the resonance amount	
	[P]Phaser Wet/ Dry	-Wet, - 1:99Dry99:1 , Wet	Sets the phaser effect balance	
j	Src	OffTempo	Selects the Wet/Dry modulation source for the phaser	
	Amt	-100+100	Sets the Wet/Dry modulation amount for the phaser	
	[P]Output Mode	Normal, Wet Invert	Selects the phaser output mode	
k	Routing	OD/HG Phaser, Phaser OD/HG	Switches the order of the overdrive and phaser	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
Ι	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

### 102: OD/HG - Mt.Delay (Overdrive/Hi.Gain - Multitap Delay)

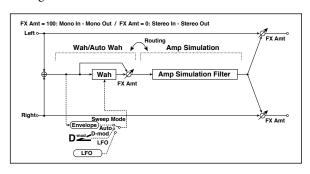
This effect combines a mono overdrive/high-gain distortion and a multitap delay.



	[O]Drive Mode	Overdrive, Hi- Gain	Switches between overdrive and high-gain distortion	
а	Drive	1100	Sets the degree of distortion	
	[O]Output Level	050	Sets the overdrive output level	
b	Src	OffTempo	Selects the modulation source for the overdrive output level	
	Amt	-50+50	Sets the modulation amount of the overdrive output level	
e	[O]Low Cutoff [Hz]	201.00k	Sets the center frequency for Low EQ (shelving type)	
	Gain [dB]	-18+18	Sets the gain of Low EQ	
	[O]Mid1 Cutoff [Hz]	30010.00k	Sets the center frequency for Mid/ High EQ 1 (peaking type)	
f	Q	0.510.0	Sets the band width of Mid/High EQ 1	
	Gain [dB]	-18+18	Sets the gain of Mid/High EQ 1	
g	[O]Mid2 Cutoff [Hz]	50020.00k	Sets the center frequency for Mid/ High EQ 2 (peaking type)	
	Q	0.510.0	Sets the band width of Mid/High EQ 2	
	Gain [dB]	-18+18	Sets the gain of Mid/High EQ 2	
MU	LTITAP DELAY			
e f g	[D]Tap1 Time [msec]	0.01360.0	Sets the Tap1 delay time	
	Tap1 Level	0100	Sets the Tap1 output level	
i	[D]Tap2 Time [msec]	0.01360.0	Sets the Tap2 delay time	
	Feedback	-100+100	Sets the Tap2 feedback amount	
j	[D]High Damp [%]	0100	Sets the damping amount in the high range	
	[D]Mt.Delay Wet/Dry	Dry, 1:9999:1, Wet	Sets the multitap delay effect balance	
			1	_
k	Src	OffTempo	Selects the Wet/Dry modulation source for the multitap delay	
k	Src Amt	OffTempo -100+100	Selects the Wet/Dry modulation source for the multitap delay Sets the Wet/Dry modulation amount for the multitap delay	
e f MUL h j			source for the multitap delay Sets the Wet/Dry modulation	
	Amt	-100+100 Dry, 1:9999:1,	source for the multitap delay Sets the Wet/Dry modulation amount for the multitap delay Balance between the wet and dry	

### 103: Wah - Amp Sim (Wah - Amp Simulation)

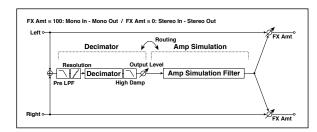
This effect combines a mono wah and an amp simulation. You can change the order of the effects.



WAH	WAH			
а	[W] Frequency Bottom	0100	Sets the lower limit of the wah center frequency	
	Frequency Top	0100	Sets the upper limit of the wah center frequency	
b	[W]Sweep Mode	Auto, D-mod, LFO	Selects the control from auto-wah, modulation source, and LFO	
	Src	OffTempo	Selects the modulation source for the wah when Sweep Mode=D-mod	
	[W]LFO Frequency [Hz]	0.0220.00	Sets the speed of the LFO	
с	Resonance	0100	Sets the resonance amount	
	LPF	Off, On	Switches the wah low pass filter on and off	
	[W]Wet/Dry	Dry, 1:9999:1, Wet	Sets the wah effect balance	
d	Src	OffTempo	Selects the Wet/Dry modulation source for the wah	
	Amt	-100+100	Sets the Wet/Dry modulation amount for the wah	
AMF	P SIM		·	
e	[A]Amplifier Type	SS, EL84, 6L6	Selects the type of guitar amplifier	
f	Routing	Wah Amp, Amp Wah	Switches the order of the wah and amp simulation	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
g	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

# 104: Decimator - Amp (Decimator - Amp Simulation)

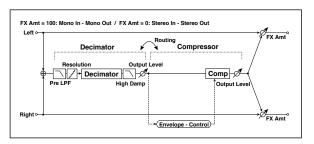
This effect combines a mono decimator and an amp simulation. You can change the order of the effects.



DEC	DECIMATOR					
DLC	DECIMATOR					
а	[D]Pre LPF	Off, On	Turn the harmonic noise caused by lowered sampling on and off			
	High Damp [%]	0100	Sets the ratio of high-range damping			
b	[D]Sampling Freq [Hz]	1.00k48.00k	Sets the sampling frequency			
	Resolution	424	Sets the data bit length			
с	[D]Output Level	0100	Sets the decimator output level			
AM	AMP SIM					
d	[A]Amplifier Type	SS, EL84, 6L6	Selects the type of guitar amplifier			
e	Routing	Decimator Amp, Amp Decimator	Switches the order of the decimator and amp simulation			
f	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal			
	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366			
	Amt	-100+100	Amount of modulation source			

# 105: Decimator - Comp (Decimator - Compressor)

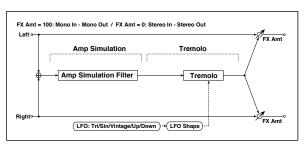
This effect combines a mono decimator and a compressor. You can change the order of the effects.



DEC	IMATOR			
а	[D]Pre LPF	Off, On	Turn the harmonic noise caused by lowered sampling on and off	
	High Damp [%]	0100	Sets the ratio of high-range damping	
b	[D]Sampling Freq [Hz]	1.00k48.00k	Sets the sampling frequency	
	Resolution	424	Sets the data bit length	
с	[D]Output Level	0100	Sets the decimator output level	
CON	<b>APRESSOR</b>			
d	[C] Sensitivity	1100	Sets the sensitivity	
e	[C]Attack	1100	Sets the attack level	
e	Output Level	0100	Sets the compressor output level	
f	Routing	Decimator Comp, Comp Decimator	Switches the order of the decimator and compressor	
g	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

### 106: AmpSim - Tremolo (Amp Simulation- Tremolo)

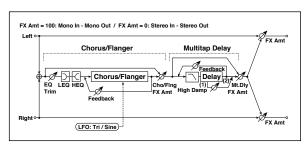
This effect combines a mono amp simulation and a tremolo.



AMI	AMP SIM				
а	[A]Amplifier Type	SS, EL84, 6L6	Selects the type of guitar amplifier		
TRE	Molo				
b	[T]LFO Waveform	Triangle, Sine, Vintage, Up, Down	Selects the LFO Waveform		
	LFO Shape	-100+100	Changes the curvature of the LFO Waveform		
с	[T]LFO Frequency [Hz]	0.0220.00	Sets the speed of the LFO		
d	[T]Depth	0100	Sets the depth of LFO modulation		
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal		
e	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366		
	Amt	-100+100	Amount of modulation source		

### 107: Cho/Flng - Mt.Dly (Chorus/Flanger - Multitap Delay)

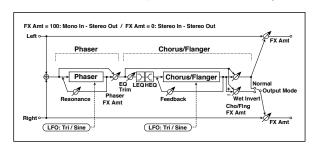
This effect combines a mono chorus/flanger and a multitap delay.



CHC	RUS/FLANGER			
a	[F]LFO Frequency [Hz]	0.0220.00	Sets the speed of the LFO	
	LFO Waveform	Triangle, Sine	Selects the LFO Waveform	
	[F]Delay Time [msec]	0.01350.0	Sets the delay time	
b	Depth	0100	Sets the depth of LFO modulation	
	Feedback	-100+100	Sets the feedback amount	
с	[F]EQ Trim	0100	Sets the EQ input level	
d	[F]PreLEQ Gain [dB]	-15+15	Sets the gain of Low EQ	
u	PreHEQ Gain [dB]	-15+15	Sets the gain of High EQ	
e	[F]Cho/Flng Wet/Dry	-Wet1 : 99, Dry, 1 : 99Wet	Sets the effect balance of the chorus/flanger	
MUL	TITAP DELAY	•		
	[D]Tap1 Time [msec]	0.01360.0	Sets the Tap1 delay time	
a	Tap1 Level	0100	Sets the Tap1 output level	
b	[D]Tap2 Time [msec]	0.01360.0	Sets the Tap2 delay time	
	Feedback	-100+100	Sets the Tap2 feedback amount	
с	[D]High Damp [%]	0100	Sets the damping amount in the high range	
	[D]Mt.DelayWe t/Dry	Dry, 1:9999:1, Wet	Sets the multitap delay effect balance	
d	Src	OffTempo	Selects the Wet/Dry modulation source for the multitap delay	
	Amt	-100+100	Sets the Wet/Dry modulation amount for the multitap delay	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
e	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	_
	Amt	-100+100	Amount of modulation source	

# 108: Phaser - Cho/Fing (Phaser - Chorus/Flanger)

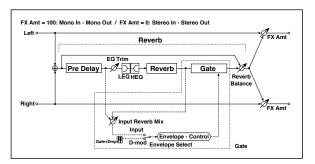
This effect combines a mono phaser and a chorus/flanger.



РНА	SER			
	[P]LFO			
а	Frequency [Hz]	0.0220.00	Sets the speed of the LFO	
	LFO Waveform	Triangle, Sine	Selects the LFO Waveform	
	[P]Manual	0100	Sets the frequency to which the effect is applied	
b	Depth	0100	Sets the depth of LFO modulation	
	Resonance	-100+100	Sets the resonance amount	
c	[P]Phaser Wet/ Dry	-Wet, - 1:99Dry99:1 , Wet	Sets the phaser effect balance	
CHC	DRUS/FLANGER			
d	[F]LFO Frequency [Hz]	0.0220.00	Sets the speed of the LFO	
	LFO Waveform	Triangle, Sine	Selects the LFO Waveform	
	[F]Delay Time [msec]	0.01350.0	Sets the delay time	
e	Depth	0100	Sets the depth of LFO modulation	
	Feedback	-100+100	Sets the feedback amount	
f	[F]EQ Trim	0100	Sets the EQ input level	
a	[F]PreLEQ Gain [dB]	-15+15	Sets the gain of Low EQ	
g	PreHEQ Gain [dB]	-15+15	Sets the gain of High EQ	
	[F]Cho/Flng Wet/Dry	-Wet, - 1:99Dry99:1 , Wet	Sets the effect balance of the chorus/flanger	
h	Src	OffTempo	Selects the Wet/Dry modulation source for the chorus/flanger	
	Amt	-100+100	Sets the Wet/Dry modulation amount for the chorus/flanger	
i	[F]Output Mode	Normal, Wet Invert	Selects the output mode for the chorus/flanger	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
j	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

### 109: Reverb - Gate

This effect combines a mono reverb and a gate.



REV	ERB			
a	[R]Reverb Time [sec]	0.110.0	Sets the reverberation time	
	High Damp [%]	0100	Sets the damping amount in the high range	
b	[R]Pre Delay [msec]	0200	Sets the delay time of the reverb sound and gate control signal	
с	[R]EQ Trim	0100	Sets the EQ input level	
C	Reverb Balance	0100	Sets the reverb effect balance	
	[R]PreLEQ Fc	Low, Mid-Low	Selects the cutoff frequency (low or mid-low) of the low-range equalizer	
d	Pre HEQ Fc	High, Mid-High	Selects the cutoff frequency (high or mid-high) of the high-range equalizer	
e	[R]PreLEQ Gain [dB]	-15.0+15.0	Sets the gain of Low EQ	
e	Pre HEQ Gain [dB]	-15.0+15.0	Sets the gain of High EQ	
GAT	E		·	
f	[G]Envelope Select	D-mod, Input	Switches between modulation source control and input signal control	
ſ	Src	OffTempo	Selects the modulation source that controls the gate when Envelope Select is set to D-mod	
q	[G]Input Reverb Mix	0100	Sets the balance between the dry and reverb sounds of the gate control signal	
5	Threshold	0100	Sets the gate threshold level	
h	[G]Polarity	+, -	Switches between non-invert and invert of the gate on/off state	
i	[G]Attack	1100	Sets the attack time	
	Release	1100	Sets the release time	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
j	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

#### f: [G]Envelope Select

- f: Src g: [G]Input Reverb Mix
- g: Threshold

The "[G]Envelope Select" parameter enables you to select whether turning the gate on and off is triggered by the input signal level or controlled directly by the modulation source. You can select from Off to Tempo for the Src parameter to specify the modulation source.

When "[G]Envelope Select" is set to Input, the gate is controlled by the level of signals that are the combination of the dry sound and the reverb sound. When the signal level exceeds the threshold, the gate opens and the reverb sound is output.

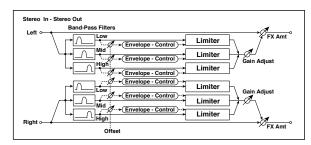
Normally, set "[G]Input Reverb Mix" to Dry (the gate is controlled only by the dry sound). If you wish to extend the gate time, set the "[G]Input Reverb Mix" value higher and adjust the "Threshold" value.

# **Double Size**

Double-size effects can only be assigned to the FX2 processors (either in the A or B FX group).

### 110: St. Mltband Limiter (Stereo Mltband Limiter)

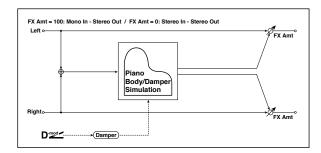
This is a stereo multiband limiter.



а	Ratio	1.0 : 1 50.0 : 1, lnf : 1	Sets the signal compression ratio	
b	Threshold [dB]	-400	Sets the level above which the compressor is applied	
с	Attack	1100	Sets the attack time	
d	Release	1100	Sets the release time	
e	Low Offset [dB]	-400	Sets the low range gain of trigger signal	
f	Mid Offset [dB]	-400	Sets the mid range gain of trigger signal	
g	High Offset [dB]	-400	Sets the high range gain of trigger signal	
	Gain Adjust [dB]	–Inf, –38+24	Sets the output gain	
h	Src	OffTempo	Selects the modulation source for the output gain	
	Amt	-63+63	Sets the modulation amount of the output gain	
i	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

# 111: PianoBody/Damper (PianoBody/Damper Simulation)

This effect simulates the resonance of the piano sound board caused by the string vibration, and also simulates the resonance of other strings that are not being played when you press the damper pedal. It will create a very realistic sound when applied to acoustic piano sounds.



а	Sound Board Depth	0100	Sets the intensity of resonance of the sound board	
b	Damper Depth	0100	Sets the intensity of the string resonance created when the damper pedal is pressed	
	Src	OffTempo	Selects the modulation source of damper effect	
с	Tone	1100	Sets tonal quality of effect sound	
d	Mid Shape	036	Sets the mid range of tonal quality	
e	Tune	-50+50	Fine tuning	
f	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

#### a: Sound Board Depth

This parameter sets the intensity of resonance of the piano sound board.

#### b: Damper Depth

b: Src

This parameter sets the resonance intensity of the other strings created when the damper pedal is pressed. The "Src" parameter selects the modulation source from which the damper effect is applied. Usually, select Damper #64 Pdl (Damper pedal).

The effect is off when a value for the modulation source specified for the "Src" parameter is 63 or smaller, and the effect is on when the value is 64 or higher.

#### c: Tone

#### d: Mid Shape

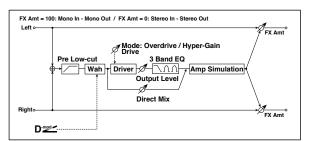
These parameters control the tonal quality of the effect sound.

#### e: Tune

Since this effect simulates the resonance of the strings, the sound varies depending on the pitch. If you have changed tuning using the "Master Tuning" (Global > General Controls > Basic), adjust this parameter value.

## 112: OD/HyperGain Wah (Overdrive/Hyper Gain Wah)

This distortion effect has two modes: overdrive and hyper-gain that produces a strong distortion. A higher high-gain setting is required for this effect relative to a normal-size effect.

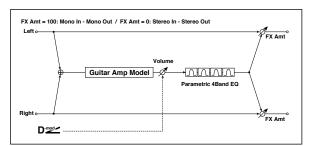


[	Wah	Off, On	Switches Wah on/off	
	vvali	01,011	Selects the modulation source that	
а	Src	OffTempo	switches the Wah on and off	
	Sw	Toggle, Moment	Selects the switching mode for the modulation source that switches the Wah on and off	
	Wah Sweep			
	Range	-10+10	Sets the range of Wah	
b	Wah Sweep Src	OffTempo	Selects the modulation source that controls the Wah	
с	Drive Mode	Overdrive, Hyper-Gain	Switches between overdrive and hi- gain distortion	
	Drive	1120	Sets the degree of distortion	
d	Pre Low-cut	010	Sets the low range cut amount of the distortion input	
	Output Level	050	Sets the output level	
e	Src	OffTempo	Selects the modulation source for the output level	
	Amt	-50+50	Sets the modulation amount of the output level	
f	Low Cutoff [Hz]	201.00k	Sets the center frequency for Low EQ (shelving type)	
	Gain [dB]	-18+18	Sets the gain of Low EQ	
	Mid1 Cutoff [Hz]	30010.00k	Sets the center frequency for Mid/ High EQ 1 (peaking type)	
g	Q	0.510.0	Sets the band width of Mid/High EQ 1	
	Gain [dB]	-18+18	Sets the gain of Mid/High EQ 1	
	Mid2 Cutoff [Hz]	50020.00k	Sets the center frequency for Mid/ High EQ 2 (peaking type)	
h	Q	0.510.0	Sets the band width of Mid/High EQ 2	
	Gain [dB]	-18+18	Sets the gain of Mid/High EQ 2	
i	Direct Mix	050	Sets the amount of the dry sound mixed to the distortion	
	Speaker Simulation	Off, On	Switches the speaker simulation on/ off	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
j	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

#### 113: GuitarAmp + P4EQ (Guitar Amp Model + Parametric 4-Band EQ)

This combines a guitar amp simulation (which even faithfully replicates the distortion and tone control circuitry) with a fourband equalizer.

By using this in conjunction with "St. Guitar Cabinet (Stereo Guitar Cabinet)" on page 378, you can obtain an even more realistic guitar sound that simulates a guitar amp + speaker cabinet.



a         Amp Type         VOX AC15, VOX AC30TB, UK 80'S, UK 80'S, UK 80'S, UK 80'S, UK 90'S, UK					
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	а	Amp Type	VOX AC15TB, VOX AC30, VOX AC30, UK BLUES, UK 70'S, UK 80'S, UK 90'S, UK MODERN, US MIGAIN, BOUTIQUE OD, BOUTIQUE OD, BOUTIQUE CL, BLACK 2x12, TWEED - 1x12,	Selects the type of the amplifier	
		Drive Gain	0100	Sets the input gain	
		Volume	0100	Sets the output level	
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	b	Src	OffTempo		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		Amt	-100+100		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	6	Bass	0100	Sets the bass (low range) level	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	C	Middle	0100	Sets the middle (mid range) level	
Presence0100Dets the presence (night nequency of boome)ePost P4EQThru, OnSelects through or on for the equalizereBand1 Cutoff [Hz]201.00kSets the center frequency of Band 1eQ0.510.0Sets the gain of Band 1Gain [dB]-18+18Sets the center frequency of Band 2fQ0.510.0Sets the center frequency of Band 2gBand2 Cutoff [Hz]505.00kSets the center frequency of Band 2gQ0.510.0Sets the gain of Band 2gQ0.510.0Sets the gain of Band 2gBand3 Cutoff [Hz]30010.00kSets the center frequency of Band 3gQ0.510.0Sets Band 3's bandwidthGain [dB]-18+18Sets the gain of Band 3gQ0.510.0Sets the center frequency of Band 3gQ0.510.0Sets the center frequency of Band 4hQ0.510.0Sets the center frequency of Band 4iSets the center frequency of Band 4Sets the center frequency of Band 4iiSets the center frequency of Band 4iisin [dB]-18+18Sets the gain of Band 4iisin [dB]-18+18Sets the gain of Band 4iSets the gain of Band 4isignaliSrcOffTempoTable , "Dynamic Modulation sources," on page 366		Treble	0100	Sets the treble (high range) level	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	d	Presence	0100		
[Hz]         201.00k         Band 1           Q         0.510.0         Sets Band 1's bandwidth           Gain [dB]         -18+18         Sets the gain of Band 1           F         Band2 Cutoff [Hz]         505.00k         Sets the center frequency of Band 2           Gain [dB]         -18+18         Sets the center frequency of Band 2           Gain [dB]         -18+18         Sets the gain of Band 2           Band3 Cutoff [Hz]         30010.00k         Sets the center frequency of Band 3           g         Q         0.510.0         Sets the center frequency of Band 3           g         Q         0.510.0         Sets the center frequency of Band 3           g         Q         0.510.0         Sets the gain of Band 3           g         Q         0.510.0         Sets the center frequency of Band 4           h         Q         0.510.0         Sets the center frequency of Band 4           Q         0.510.0         Sets Band 4's bandwidth           Gain [dB]         -18+18         Sets the gain of Band 4           Wet/Dry         Dry, 1:9999:1, Wet         Balance between the wet and dry signal           i         Src         OffTempo         Table, "Dynamic Modulation sources," on page 366 <td>е</td> <td>Post P4EQ</td> <td>Thru, On</td> <td></td> <td></td>	е	Post P4EQ	Thru, On		
$ \begin{array}{ c c c c c c } \hline Q & 0.510.0 & Sets Band Ys bandwidth \\ \hline \hline Gain [dB] & -18+18 & Sets the gain of Band 1 & \\ \hline \hline Gain [dB] & -18+18 & Sets the center frequency of Band 2 & \\ \hline Q & 0.510.0 & Sets Band 2's bandwidth & \\ \hline \hline Gain [dB] & -18+18 & Sets the gain of Band 2 & \\ \hline \hline Q & 0.510.0 & Sets Band 3's bandwidth & \\ \hline \hline Gain [dB] & -18+18 & Sets the center frequency of Band 3 & \\ \hline Q & 0.510.0 & Sets Band 3's bandwidth & \\ \hline \hline Gain [dB] & -18+18 & Sets the gain of Band 3 & \\ \hline Q & 0.510.0 & Sets Band 3's bandwidth & \\ \hline \hline Gain [dB] & -18+18 & Sets the center frequency of Band 4 & \\ \hline P & & \\ \hline Hz] & 50020.00k & Sets the center frequency of Band 4 & \\ \hline Q & 0.510.0 & Sets Band 4's bandwidth & \\ \hline Gain [dB] & -18+18 & Sets the gain of Band 4 & \\ \hline Q & 0.510.0 & Sets Band 4's bandwidth & \\ \hline Gain [dB] & -18+18 & Sets the gain of Band 4 & \\ \hline Wet/Dry & & Dry, 1:9999:1, Balance between the wet and dry signal & \\ i & Src & OffTempo & Table, "Dynamic Modulation sources," on page 366 & \\ \hline \end{array}$			201.00k		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	e	Q	0.510.0	Sets Band 1's bandwidth	
[Hz]         S05.00k         Band 2           g         0.510.0         Sets Band 2's bandwidth           Gain [dB]         -18+18         Sets the gain of Band 2           g         Band3 Cutoff [Hz]         30010.00k         Sets the center frequency of Band 3           g         Q         0.510.0         Sets Band 3's bandwidth           Gain [dB]         -18+18         Sets the center frequency of Band 3           g         Q         0.510.0         Sets Band 3's bandwidth           Gain [dB]         -18+18         Sets the center frequency of Band 4           h         Q         0.510.0         Sets Band 4's bandwidth           Gain [dB]         -18+18         Sets the gain of Band 4           Q         0.510.0         Sets Band 4's bandwidth           Gain [dB]         -18+18         Sets the gain of Band 4           Wet/Dry         Dry, 1:9999:1, Wet         Balance between the wet and dry signal           i         Src         OffTempo         Table, "Dynamic Modulation sources," on page 366		Gain [dB]	-18+18	Sets the gain of Band 1	
$\begin{tabular}{ c c c c c } \hline Q & 0.510.0 & Sets Band 2's bandwidth & & & & & & & & & & & & & & & & & & &$			505.00k		
Band3 Cutoff [Hz]     30010.00k     Sets the center frequency of Band 3       9     Q     0.510.0     Sets Band 3's bandwidth       Gain [dB]     -18+18     Sets the gain of Band 3       A     Band4 Cutoff [Hz]     50020.00k     Sets the center frequency of Band 4       h     Q     0.510.0     Sets the center frequency of Band 4       Q     0.510.0     Sets the center frequency of Band 4       Gain [dB]     -18+18     Sets the gain of Band 4       Gain [dB]     -18+18     Sets the gain of Band 4       Wet/Dry     Dry, 1:9999:1, Wet     Balance between the wet and dry signal       i     Src     OffTempo     Table , "Dynamic Modulation sources," on page 366	t	Q	0.510.0	Sets Band 2's bandwidth	
g         [Hz]         Sou10.00k         Band 3           g         Q         0.510.0         Sets Band 3's bandwidth           Gain [dB]         -18+18         Sets the gain of Band 3           h         Band4 Cutoff [Hz]         50020.00k         Sets the center frequency of Band 4           h         Q         0.510.0         Sets Band 4's bandwidth           Gain [dB]         -18+18         Sets the gain of Band 4           Gain [dB]         -18+18         Sets the gain of Band 4           Wet/Dry         Dry, 1:9999:1, Wet         Balance between the wet and dry signal           i         Src         OffTempo         Table, "Dynamic Modulation sources," on page 366		Gain [dB]	-18+18	Sets the gain of Band 2	
Q     0.510.0     Sets Band 3's Bandwhith       Gain [dB]     -18+18     Sets the gain of Band 3       Band4 Cutoff [Hz]     50020.00k     Sets the center frequency of Band 4       Q     0.510.0     Sets Band 4's bandwidth       Gain [dB]     -18+18     Sets the gain of Band 4       Wet/Dry     Dry, 1:9999:1, Wet     Balance between the wet and dry signal       i     Src     OffTempo     Table, "Dynamic Modulation sources," on page 366			30010.00k		
Band4 Cutoff [Hz]         50020.00k         Sets the center frequency of Band 4           h         Q         0.510.0         Sets Band 4's bandwidth           Gain [dB]         -18+18         Sets the gain of Band 4           Wet/Dry         Dry, 1:9999:1, Wet         Balance between the wet and dry signal           i         Src         OffTempo         Table , "Dynamic Modulation sources," on page 366	g	Q	0.510.0	Sets Band 3's bandwidth	
Image: heat state     Submitted and state       h     Q     0.510.0     Sets Band 4       Gain [dB]     -18+18     Sets the gain of Band 4       Wet/Dry     Dry, 1:9999:1, Wet     Balance between the wet and dry signal       i     Src     OffTempo     Table, "Dynamic Modulation sources," on page 366		Gain [dB]	-18+18	Sets the gain of Band 3	
Q     0.510.0     Sets Band 4's bandwidth       Gain [dB]     -18+18     Sets the gain of Band 4       Wet/Dry     Dry, 1:9999:1, Wet     Balance between the wet and dry signal       i     Src     OffTempo     Table , "Dynamic Modulation sources," on page 366			50020.00k		
Wet/Dry         Dry, 1:9999:1, Wet         Balance between the wet and dry signal           i         Src         OffTempo         Table , "Dynamic Modulation sources," on page 366	n	Q	0.510.0	Sets Band 4's bandwidth	
web/Dry         Wet         signal           i         Src         OffTempo         Table , "Dynamic Modulation sources," on page 366		Gain [dB]	-18+18	Sets the gain of Band 4	
sources," on page 366		Wet/Dry			
Amt –100+100 Amount of modulation source	i	Src	OffTempo		
		Amt	-100+100	Amount of modulation source	

#### a: Amp Type d: Presence

If the Amp Type is VOX AC15...VOX AC30TB, this sets the attenuation of the high-frequency range. For other types, this sets the boost of the high-frequency range.

This corresponds to the Cut knob control of amps made by the VOX Corporation.

#### e: Post P4EQ

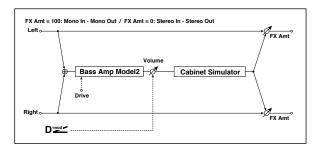
By chaining this with 19: St.Guitar Cabinet you can simulate the combination of a guitar amp and speaker cabinet. In this case, we recommend that you set Post P4EQ to "Thru," but if necessary you can turn it "On" and adjust the tone.

#### Recommended Combinations of Guitar Amp Models and Cabinet Simulators:

Amp Type	Cabinet Type
VOX AC15	VOX AC15 - 1x12
VOX AC15TB	VOX AC15 - 1x12
VOX AC30	VOX AC30 - 2x12
VOX AC30TB	VOX AC30 - 2x12
UK BLUES	UK H30 - 4x12
UK 70'S	UK H30 - 4x12
UK 80'S	UK T75 - 4x12
UK 90'S	UK T75 - 4x12
UK MODERN	UK T75 - 4x12, US V30 - 4x12
US MODERN	US V30 - 4x12
US HIGAIN	US V30 - 4x12, UK T75 - 4x12
BOUTIQUE OD	UK H30 - 4x12
BOUTIQUE CL	UK H30 - 4x12
BLACK 2x12	BLACK - 2x12
TWEED - 1x12	TWEED - 1x12
TWEED - 4x10	TWEED - 4x10

## 114: BassTubeAmp+Cab. (Bass Tube Amp Model + Cabinet)

This simulates a bass amp (with gain and drive) and speaker cabinet.



aAmp TypeSTUDIO COMBO COMAOSelects the type of the amplifier A tube combo ideal for the Motown soundaAmp TypeSTUDIO COMBO VOX AC100A 100W tube amp AC100 made by VoxbDrive Gain0100Sets the input gaincSrcOffTempoSelects the modulation source for the output leveldBass0100Sets the modulation amount of the output leveldBass0100Sets the bass (low range) leveleMidle0100Sets the presence (high-frequency tone)fTreble0100Sets the cabinet simulator on/ off.gPresence0100Sets the cabinet simulator on/ off.hCabinet SimulatorOff, OnSwitches the cabinet simulator on/ off.iCabinet TypeOff. On XZZ - 1x15, UK - 4x10, UK - 4x12, STUDIO - 1x15, US - 2x15, US - 2x1	-			
aAmp TypeCOMBO VOX AC100sound A 100W tube amp AC100 made by VoxbDrive Gain0100Sets the input gaincVolume0100Sets the output levelcSrcOffTempoSelects the modulation source for the output leveldBass0100Sets the bass (low range) leveleMiddle0100Sets the bass (low range) levelfTreble0100Sets the treble (high range) levelgPresence0100Sets the cabinet simulator on/ offhCabinet SimulatorOff, OnSwitches the cabinet simulator on/ offiCabinet TypeOff, On VOX AC100 - 2x15, US - 2x15, UK - 4x15, LA - 1x18, COMBI - 1x12& 1x18Selects the cabinet typejWet/DryDry, 1:9999:1, VetBalance between the wet and dry signaljSrcOffTempoTable, "Dynamic Modulation sources," on page 366				Selects the type of the amplifier
A 100W tube amp AC100 made by VoxbDrive Gain0100Sets the input gaincVolume0100Sets the output levelcSrcOffTempoSelects the modulation source for the output leveldBass0100Sets the bass (low range) leveleMiddle0100Sets the trable (mid range) levelfTreble0100Sets the presence (high-frequency tone)gPresence0100Sets the presence (high-frequency tone)hCabinet SimulatorOff, On VOX AC100 - 2x15, US - 2x15, US - 2x15, Selects the cabinet typejWet/DryDry, 1:9999:1, Table, "Dynamic Modulation sources," on page 366	а			
b       Drive Gain       0100       Sets the input gain         c       Volume       0100       Sets the output level         Src       OffTempo       Selects the modulation source for the output level         d       Bass       0100       Sets the modulation amount of the output level         e       Middle       0100       Sets the bass (low range) level         e       Middle       0100       Sets the treble (high range) level         f       Treble       0100       Sets the presence (high-frequency tone)         g       Presence       0100       Sets the cabinet simulator on/ off         h       Cabinet Simulator       Off, On       Switches the cabinet simulator on/ off         i       Cabinet Type       UK - 4x10, MODERN - 4x10, MODERN - 4x10, UK - 4x12, STUDIO - 1x15, JAZZ - 1x15, VOX AC100 - 2x15, US - 2x15, UK - 4x15, LA - 1x18, COMBI - 1x12& 1x18       Selects the cabinet type         j       Wet/Dry       Dry, 1:9999:1, Balance between the wet and dry signal       Src         j       Src       OffTempo       Table , "Dynamic Modulation sources," on page 366	u	ninp type	VOX AC100	
volume       0100       Sets the output level         src       OffTempo       Selects the modulation source for the output level         Amt       -100+100       Sets the modulation amount of the output level         d       Bass       0100       Sets the bass (low range) level         e       Middle       0100       Sets the bass (low range) level         f       Treble       0100       Sets the presence (high-frequency tone)         g       Presence       0100       Sets the cabinet simulator on/ off         h       Cabinet Simulator       Off, On       Switches the cabinet simulator on/ off         i       Cabinet Type       Off, On       Selects the cabinet type       VOX AC100 - 2x15, UK - 4x10, MODERN - 4x10, UK - 4x12, STUDIO - 1x15, JAZZ - 1x15, VOX AC100 - 2x15, US - 2x15, UK - 4x15, LA - 1x18, COMBI - 1x12& 1x18       Selects the cabinet type         j       Wet/Dry       Dry, 1:9999:1, Balance between the wet and dry signal       Src         src       OffTempo       Table, "Dynamic Modulation sources," on page 366       Selects "On page 366			UK MAJOR	A 200W tube amp made in the UK
cc     Src     OffTempo     Selects the modulation source for the output level       Amt     -100+100     Sets the modulation amount of the output level       d     Bass     0100     Sets the bass (low range) level       e     Middle     0100     Sets the bass (low range) level       f     Treble     0100     Sets the treble (high range) level       g     Presence     0100     Sets the presence (high-frequency tone)       h     Cabinet Simulator     Off, On     Switches the cabinet simulator on/ off       i     Cabinet Type     Off, On     Selects the cabinet type       y     Cabinet Type     VOX AC100 - 2x15, UK - 4x12, STUDIO - 1x15, JAZZ - 1x15, UK - 4x15, LA - 1x18, COMBI - 1x12& 1x18     Selects the cabinet type       j     Wet/Dry     Dry, 1:9999:1, Wet     Balance between the wet and dry signal	b	Drive Gain	0100	Sets the input gain
c     Src     Off1empo     the output level       Amt     -100+100     Sets the modulation amount of the output level       d     Bass     0100     Sets the bass (low range) level       e     Middle     0100     Sets the bass (low range) level       f     Treble     0100     Sets the treble (high range) level       g     Presence     0100     Sets the presence (high-frequency tone)       h     Cabinet     Off, On     Switches the cabinet simulator on/ off       i     Cabinet Type     Off, On     Selects the cabinet type       i     Cabinet Type     UK - 4x10, MODERN - 4x10, MODERN - 4x10, CLASSIC -8x10, UK - 4x12, STUDIO - 1x15, JAZZ - 1x15, US - 2x15, US - 2x15, US - 2x15, UK - 4x15, LA - 1x18, COMBI - 1x12.& 1x18       j     Wet/Dry     Dry, 1:9999:1, LA - 1x12.& 1x18       j     Src     OffTempo     Table, "Dynamic Modulation sources," on page 366		Volume	0100	Sets the output level
Amt       -100+100       output level         d       Bass       0100       Sets the bass (low range) level         e       Middle       0100       Sets the middle (mid range) level         f       Treble       0100       Sets the treble (high range) level         g       Presence       0100       Sets the presence (high-frequency tone)         h       Cabinet Simulator       Off, On       Switches the cabinet simulator on/ off         i       Cabinet Type       Off, On       Switches the cabinet simulator on/ off         i       Cabinet Type       Off, On       Selects the cabinet type         iv(K - 4x12, STUDIO - 1x15, JAZZ - 1x15, VOX AC100 - 2x15, US - 2x15, US - 2x15, UK - 4x15, LA - 1x18, COMBI - 1x12& 1x18       Selects the cabinet type         j       Wet/Dry       Dry, 1:9999:1, Balance between the wet and dry signal         j       Src       OffTempo       Table, "Dynamic Modulation sources," on page 366	с	Src	OffTempo	
e     Middle     0100     Sets the middle (mid range) level       f     Treble     0100     Sets the treble (high range) level       g     Presence     0100     Sets the presence (high-frequency tone)       h     Cabinet Simulator     Off, On     Switches the cabinet simulator on/ off       i     Cabinet Type     Off, On     Switches the cabinet simulator on/ off       i     Cabinet Type     LA - 4x10, MODERN - 4x10, CLASSIC - 8x10, UK - 4x12, STUDIO - 1x15, JAZZ - 1x15, VOX AC100 - 2x15, UX - 4x15, LA - 1x18, COMBI - 1x12 & 1x18       j     Wet/Dry     Dry, 1:9999:1, UX - 4x13, Tx18       j     Src     OffTempo     Table, "Dynamic Modulation sources," on page 366		Amt	-100+100	
f     Treble     0100     Sets the treble (high range) level       g     Presence     0100     Sets the presence (high-frequency tone)       h     Cabinet Simulator     Off, On     Switches the cabinet simulator on/ off       i     Cabinet Type     Off, On     Switches the cabinet simulator on/ off       i     Cabinet Type     LA - 4x10, MODERN - 4x10, CLASSIC - 8x10, UK - 4x12, STUDIO - 1x15, JAZZ - 1x15, VOX AC100 - 2x15, UX - 4x15, US - 2x15, UK - 4x15, LA - 1x18, COMBI - 1x12 & 1x18       j     Wet/Dry     Dry, 1:9999:1, LA - 1x18, COMBI - 1x12 & 1x18       j     Src     OffTempo     Table, "Dynamic Modulation sources," on page 366	d	Bass	0100	Sets the bass (low range) level
i     Neuron     Database       g     Presence     0100     Sets the presence (high-frequency tone)       h     Cabinet Simulator     Off, On     Switches the cabinet simulator on/ off       i     Cabinet Type     LA - 4x10, MODERN - 4x10, CLASSIC - 8x10, UK - 4x12, STUDIO - 1x15, JAZZ - 1x15, VOX AC100 - 2x15, US - 2x15, UK - 4x15, LA - 1x18, COMBI - 1x12& 1x18     Selects the cabinet type       j     Wet/Dry     Dry, 1:9999:1, Balance between the wet and dry signal       j     Src     OffTempo     Table, "Dynamic Modulation sources," on page 366	e	Middle	0100	Sets the middle (mid range) level
g     Presence     0100     tone)       h     Cabinet Simulator     Off, On     Switches the cabinet simulator on/ off       i     Cabinet Simulator     Off, On     Switches the cabinet simulator on/ off       i     LA - 4x10, MODERN - 4x10, CLASSIC - 8x10, UK - 4x12, STUDIO - 1x15, JAZZ - 1x15, VOX AC100 - 2x15, US - 2x15, UK - 4x15, LA - 1x18, COMBI - 1x12 & 1x18     Selects the cabinet type       j     Wet/Dry     Dry, 1:9999:1, Wet     Balance between the wet and dry signal       j     Src     OffTempo     Table, "Dynamic Modulation sources," on page 366	f	Treble	0100	Sets the treble (high range) level
n     Simulator     Off, On     off       i     LA - 4x10, MODERN - 4x10, CLASSIC - 8x10, UK - 4x12, STUDIO - 1x15, JAZZ - 1x15, VOX AC100 - 2x15, US - 2x15, UK - 4x15, LA - 1x18, COMBI - 1x12 & 1x18     Selects the cabinet type       j     Wet/Dry     Dry, 1:9999:1, Wet     Balance between the wet and dry signal       j     Src     OffTempo     Table , "Dynamic Modulation sources," on page 366	g	Presence	0100	
i     Cabinet Type     MODERN - 4x10, METAL - 4x10, CLASSIC - 8x10, UK - 4x12, STUDIO - 1x15, VOX AC100 - 2x15, US - 2x15, UK - 4x15, LA - 1x18, COMBI - 1x12& 1x18     Selects the cabinet type       j     Wet/Dry     Dry, 1:9999:1, Wet     Balance between the wet and dry signal       j     Src     OffTempo     Table , "Dynamic Modulation sources," on page 366	h		Off, On	
week/bity         Wet         signal           j         Src         OffTempo         Table , "Dynamic Modulation sources," on page 366	i	Cabinet Type	MODERN - 4x10, METAL - 4x10, CLASSIC -8x10, UK - 4x12, STUDIO - 1x15, JAZZ - 1x15, VOX AC100 - 2x15, US - 2x15, UK - 4x15, LA - 1x18, COMBI - 1x12 &	Selects the cabinet type
sources," on page 366		Wet/Dry		
Amt –100+100 Amount of modulation source	j	Src	OffTempo	
		Amt	-100+100	Amount of modulation source

#### a: Amp Type

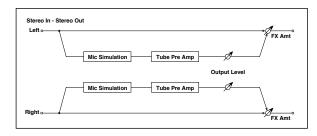
i: Cabinet Type

Recommended Combinations of Bass Amp Models and Cabinets:

Amp Type	Cabinet Type
STUDIO COMBO	STUDIO - 1x15
AC100	VOX AC100 - 2x15
UK MAJOR	UK - 4x15, UK - 4x12

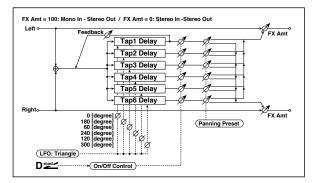
### 115: St. Mic + PreAmp (Stereo Mic Modeling + PreAmp)

This is a stereo mic and preamp simulator (See "Mic Model+Pre-Amp (Mic Modeling + PreAmp)" on page 381.). For example you might use this to simulate micing of a stereo source such as a rotary speaker.



# 116: Multitap Cho/Delay (Multitap Chorus/Delay)

This effect has six chorus blocks with different LFO phases. You can produce a complex stereo image by setting a different delay time and depth for each block. You can control the delay output level via a modulation source.



а	LFO Frequency [Hz]	0.0213.00	Sets the speed of the LFO	
	Tap1 (000) [msec]	02000	Sets the Tap1 (LFO phase=0 degrees) delay time	
	Depth	030	Sets the Tap1 chorus depth	
b	Status	Always On, Always Off, On Off (Dm), Off On (Dm)	Selects on, off, or modulation source for the control of Tap1 output	
	Tap2 (180) [msec]	02000	Sets the Tap2 (LFO phase=180 degrees) delay time	
	Depth	030	Sets the Tap2 chorus depth	
с	Status	Always On, Always Off, On Off (Dm), Off On (Dm)	Selects on, off, or modulation source for the control of Tap2 output	
	Tap3 (060) [msec]	02000	Sets the Tap3 (LFO phase=60 degrees) delay time	
	Depth	030	Sets the Tap3 chorus depth	
d	Status	Always On, Always Off, On Off (Dm), Off On (Dm)	Selects on, off, or modulation source for the control of Tap3 output	
	Tap4 (240) [msec]	02000	Sets the Tap4 (LFO phase=240 degrees) delay time	
	Depth	030	Sets the Tap4 chorus depth	
e	Status	Always On, Always Off, On Off (Dm), Off On (Dm)	Selects on, off, or modulation source for the control of Tap4 output	
	Tap5 (120) [msec]	02000	Sets the Tap5 (LFO phase=120 degrees) delay time	
	Depth	030	Sets the Tap5 chorus depth	
f	Status	Always On, Always Off, On Off (Dm), Off On (Dm)	Selects on, off, or modulation source for the control of Tap5 output	

	Tap6 (300) [msec]	02000	Sets the Tap1 (LFO phase=300 degrees) delay time	
	Depth	030	Sets the Tap6 chorus depth	
g	Status	Always On, Always Off, On Off (Dm), Off On (Dm)	Selects on, off, or modulation source for the control of Tap6 output	
h	Panning Preset	1:L123456R, 2:L135246R, 3:L135246R, 4:L145632R	Selects the stereo panning pattern for each tap	
	Tap1 Feedback	-100+100	Sets the Tap1 feedback amount	
i	Src	OffTempo	Selects the modulation source for the Tap output level, feedback amount, and effect balance	
	Amt	-100+100	Sets the modulation amount of Tap1 feedback amount	
j	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

#### b, c, d, e, f, g: Status

These parameters set the output status of each Tap.

Always On: Output is always on. (No modulation)

Always Off: Output is always off. (No modulation)

**Onç Off (dm)**: Output level is switched from on to off depending on the modulation source.

**Offç On (dm)**: Output level is switched from off to on depending on the modulation source.

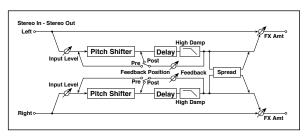
Combining these parameters, you can change from 4-phase chorus to two-tap delay by crossfading them gradually via the modulation source during a performance.

#### h: Panning Preset

This parameter selects combinations of stereo images of the tap outputs.

## 117: St. Pitch Shifter (Stereo Pitch Shifter)

This is a stereo pitch shifter. The pitch shift amount for the left and right channels can be reversed from each other.



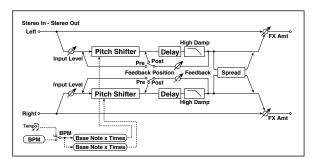
	Mode	Slow, Medium, Fast	Switches Pitch Shifter mode	
а	L/R Pitch	Normal, Up/Down	Determines whether or not the L/R pitch shift amount is inverted	
	Pitch Shift [1/ 2tone]	-24+24	Sets the pitch shift amount in steps of a semitone	
b	Src	OffTempo	Selects the modulation source of pitch shift amount	
	Amt	-24+24	Sets the modulation amount of pitch shift amount	
c	Fine [cents]	-100+100	Sets the pitch shift amount in steps of one cent	
C	Amt	-100+100	Sets the modulation amount of pitch shift amount	
d	L Delay [msec]	02000	Sets the delay time for the left channel	
e	R Delay [msec]	02000	Sets the delay time for the right channel	
f	Feedback	-100+100	Sets the feedback amount	
	High Damp [%]	0100	Sets the damping amount in the high range	
	Feedback Position	Pre, Post	Switches the feedback connection	
g	Spread	-100+100	Sets the width of the stereo image of the effect sound	
h	Input Level Dmod [%]	-100+100	Sets the modulation amount of the input level	
n	Src	OffTempo	Selects the modulation source for the input level	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
i	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

#### a: L/R Pitch

When you select Up/Down for this parameter, the pitch shift amount for the right channel will be reversed. If the pitch shift amount is positive, the pitch of the left channel is raised, and the pitch of the right channel is lowered.

## 118: St. PitchShift BPM (Stereo Pitch Shifter BPM)

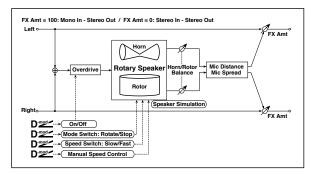
This stereo pitch shifter enables you to set the delay time to match the song tempo.



а	Mode	Slow, Medium, Fast	Switches Pitch Shifter mode	
a	L/R Pitch	Normal, Up/Down	Determines whether or not the L/R pitch shift amount is inverted	
	Pitch Shift [1/ 2tone]	-24+24	Sets the pitch shift amount in steps of a semitone	
b	Src	OffTempo	Selects the modulation source of pitch shift amount	
	Amt	-24+24	Sets the modulation amount of pitch shift amount	
	Fine [cents]	-100+100	Sets the pitch shift amount in steps of one cent	
c	Amt	-100+100	Sets the modulation amount of pitch shift amount Sets the modulation amount of pitch shift amount	
	BPM	MIDI, 40.00 300.00	MIDI syncs to the system tempo; 40– 300 sets the tempo manually for this individual effect	₽ M
d	Time Over? L	, OVER!	Display the error message if the left channel delay time exceeds the upper limit	
	R	, OVER!	Display the error message if the right channel delay time exceeds the upper limit	
e	L Delay Base Note	rw	Selects the type of notes to specify the left channel delay time	<u>Д</u> §yno
C	Times	x1x32	Sets the number of notes to specify the left channel delay time	
f	R Delay Base Note	rw	Selects the type of notes to specify the right channel delay time	Syn ₽
	Times	x1x32	Sets the number of notes to specify the right channel delay time	
q	Feedback Position	Pre, Post	Switches the feedback connection	
9	Spread	-100+100	Sets the width of the stereo image of the effect sound	
h	Feedback	-100+100	Sets the feedback amount	
	High Damp [%]	0100	Sets the damping amount in the high range	
i	Input Level Dmod [%]	-100+100	Sets the modulation amount of the input level	
Ľ	Src	OffTempo	Selects the modulation source for the input level	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
j	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

### 119: Rotary SpeakerOD (Rotary Speaker Overdrive)

This is a stereo rotary speaker effect. It has an internal speaker simulator that simulates overdrive (recreating the amp distortion) and characteristics of the rotary speaker, producing a very realistic rotary speaker sound.



	Overdrive	Off, On	Switches overdrive on/off	
	Src	OffTempo	Selects a modulation source to switch overdrive on/off	
а	Sw	Toggle, Moment	Sets the switch mode for overdrive on/off modulation	
	Overdrive Gain	0100	Determines the degree of distortion	
b	Overdrive Level	0100	Sets the overdrive output level	
с	Overdrive Tone	015	Sets the tonal quality of the overdrive	
C	Speaker Simulator	Off, On	Switches the speaker simulation on/ off	
	Mode Switch	Rotate, Stop	Switches between speaker rotation and stop	
d	Src	OffTempo	Selects a modulation source for Rotate/Stop	
	Sw	Toggle, Moment	Sets the switch mode for Rotate/ Stop modulation	
	Speed Switch	Slow, Fast	Switches the speaker rotation speed between slow and fast	
e	Src	OffTempo	Selects a modulation source for Slow/Fast	
	Sw	Toggle, Moment	Sets the switch mode for Slow/Fast modulation	
f	Horn/Rotor Balance	Rotor, 199, Horn	Sets the volume balance between the high-range horn and low-range rotor	
	Manual SpeedCtrl	OffTempo	Sets a modulation source for direct control of rotation speed	
~	Horn Acceleration	0100	Sets how quickly the horn rotation speed changes	
g	Horn Ratio	Stop, 0.502.00	Adjusts the (high-frequency) horn rotation speed. Standard value is 1.00. "Stop" stops the rotation	
	Rotor Acceleration	0100	Sets how quickly the rotor speed changes	
h	Rotor Ratio	Stop, 0.502.00	Adjusts the (low-frequency) rotor rotation speed. Standard value is 1.0. "Stop" stops the rotation	
i	Mic Distance	0100	Distance between the microphone and rotary speaker	
	Mic Spread	0100	Angle of left and right microphones	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
j	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

#### a: Sw

This parameter determines how to switch on/off the overdrive via a modulation source.

When "Sw" = Toggle, overdrive is turned on/off each time the pedal or joystick is operated.

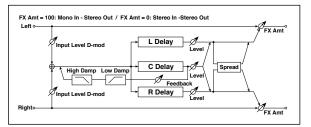
MD Overdrive will be switched on/off each time the value of the modulation source exceeds 64.

When "Sw" = Moment, overdrive is applied only when you press the pedal or operate the joystick.

MD Only when the value for the modulation source is 64 or higher, the overdrive effect is applied.

# 120: L/C/R Long Delay

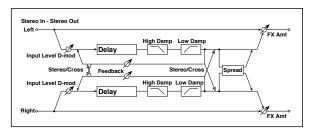
This multitap delay outputs three Tap signals to left, right and center respectively. You can set a maximum of 5,460msec for the delay time.



aL Delay Time [msec]05460Sets the delay time of TapLbLevel050Sets the output level of TapCbC Delay Time [msec]05460Sets the delay time of TapCcB.Delay Time [msec]05460Sets the output level of TapCcM.Delay Time [msec]05460Sets the delay time of TapRcB.Delay Time [msec]05460Sets the delay time of TapRdPeedback (C Delay)-100+100Sets the feedback amount of TapCdSrcOffTempoSelects the modulation source for the TapC feedbackAmt-100+100Sets the damping amount in the high rangeeHigh Damp [%]0100Sets the damping amount in the low rangefInput Level Dmod [%]-100+100Sets the modulation source for the input levelfMet/DryOffTempoSets the modulation source for the input levelgSpread050Sets the modulation source for the input levelgSpread050Sets the modulation source for the input levelhArcOffTempoSelects the modulation source for the input levelhSrcOffTempoSets the width of the stereo image of the effect soundgSpread050Sets the width of the stereo image signalhMet/DryDry, 1:9999:1, WetBalance between the wet and dry signalhSrcOffTempoTable, "Dynamic Modulation sou					
bDelay Time [msec]05460Sets the delay time of TapCcR Delay Time [msec]050Sets the output level of TapCcR Delay Time [msec]05460Sets the delay time of TapRLevel050Sets the output level of TapRdFeedback (C Delay)-100+100Sets the feedback amount of TapCdSrcOffTempoSelects the modulation source for the TapC feedbackeHigh Damp [%]0100Sets the damping amount in the high rangefInput Level Dmod [%]-100+100Sets the modulation amount of the TapC feedbackfSetsSets the damping amount in the high rangeSets the damping amount in the low rangegSpreadOffTempoSelects the modulation source for the input levelgSpread050Sets the damping amount of the signalhSrcOffTempoSelects the modulation source for the input levelhSrcOffTempoSets the width of the stereo image of the effect soundgSpread050Sets the width of the stereo image of the effect soundhSrcOffTempoTable, "Dynamic Modulation sources," on page 366	а	L Delay Time [msec]	05460	Sets the delay time of TapL	
b       [msec]'       05460       Sets the delay time of TapC         c       R Delay Time [msec]       050       Sets the output level of TapC         c       R Delay Time [msec]       05460       Sets the delay time of TapR         Level       050       Sets the output level of TapR         Level       050       Sets the feedback amount of TapC         d       Feedback (C Delay)       -100+100       Sets the feedback amount of TapC         Src       OffTempo       Selects the modulation source for the TapC feedback       Amt         e       High Damp [%]       0100       Sets the damping amount in the high range         Low Damp [%]       0100       Sets the modulation amount of the TapC feedback         f       Input Level Dmod [%]       -100+100       Sets the damping amount in the low range         g       Spread       OffTempo       Selects the modulation source for the input level         g       Spread       050       Sets the width of the stereo image of the effect sound         h       Src       OffTempo       Selects the width of the stereo image of the effect sound         h       Src       OffTempo       Selects the width of the stereo image of the effect sound		Level	050	Sets the output level of TapL	
c       Roleay Time [msec]       05460       Sets the delay time of TapR         Level       050       Sets the output level of TapR         d       Feedback (C Delay)       -100+100       Sets the feedback amount of TapC         d       Src       OffTempo       Selects the modulation source for the TapC feedback         Amt       -100+100       Sets the damping amount of the TapC feedback         e       High Damp [%]       0100       Sets the damping amount in the high range         low Damp [%]       0100       Sets the modulation source for the input level         f       Input Level Dmod [%]       -100+100       Sets the damping amount in the low range         g       Spread       OffTempo       Selects the modulation source for the input level         g       Spread       050       Sets the width of the stereo image of the effect sound         h       Src       OffTempo       Selects the width of the stereo image of the effect sound         h       Src       OffTempo       Selects the width of the stereo image of the effect sound	b		05460	Sets the delay time of TapC	
c       [msec]       05400       Sets the delay time of TapR         Level       050       Sets the output level of TapR         d       Feedback (C Delay)       -100+100       Sets the feedback amount of TapC         Amt       -100+100       Sets the modulation source for the TapC feedback         e       High Damp [%]       0100       Sets the damping amount in the high range         Low Damp [%]       0100       Sets the modulation source for the input level         f       Input Level Dmod [%]       -100+100       Sets the damping amount in the low range         g       Spread       OffTempo       Selects the modulation source for the input level         g       Spread       050       Sets the width of the stereo image of the effect sound         h       Src       OffTempo       Selects the width of the stereo image of the effect sound         h       Src       OffTempo       Selects the width of the stereo image of the effect sound		Level	050	Sets the output level of TapC	
Ame       Feedback (C Delay)       -100+100       Sets the feedback amount of TapC         d       Src       OffTempo       Selects the modulation source for the TapC feedback         Amt       -100+100       Sets the modulation amount of the TapC feedback         e       High Damp [%]       0100       Sets the damping amount in the high range         Low Damp [%]       0100       Sets the damping amount in the low range         f       Input Level Dmod [%]       -100+100       Sets the modulation amount of the input level         f       Src       OffTempo       Sets the modulation source for the input level         g       Spread       050       Sets the width of the stereo image of the effect sound         h       Src       OffTempo       Table, "Dynamic Modulation sources," on page 366	с		05460	Sets the delay time of TapR	
Image: Non-state in the image in the im		Level	050	Sets the output level of TapR	
d       Src       OffTempo       the TapC feedback         Amt       -100+100       Sets the modulation amount of the TapC feedback         e       High Damp [%]       0100       Sets the damping amount in the high range         Low Damp [%]       0100       Sets the damping amount in the low range         f       Input Level Dmod [%]       -100+100       Sets the modulation amount of the input level         g       Spread       OffTempo       Sets the width of the stereo image of the effect sound         wet/Dry       Dry, 1:9999:1, Wet       Balance between the wet and dry signal         h       Src       OffTempo       Table , "Dynamic Modulation sources"			-100+100	Sets the feedback amount of TapC	
Amt       -100+100       TapC feedback         TapC feedback       TapC feedback         High Damp [%]       0100       Sets the damping amount in the high range         Low Damp [%]       0100       Sets the damping amount in the low range         f       Input Level Dmod [%]       -100+100       Sets the modulation amount of the input level         g       Spread       OffTempo       Selects the modulation source for the input level         g       Spread       050       Sets the width of the stereo image of the effect sound         h       Src       OffTempo       TapC feedback         g       Spread       050       Sets the width of the stereo image of the effect sound         h       Src       OffTempo       TapC feedback	d	Src	OffTempo		
e       High Damp [%]       0100       high range       v         Low Damp [%]       0100       Sets the damping amount in the low range         f       Input Level Dmod [%]       -100+100       Sets the modulation amount of the input level         g       Spread       OffTempo       Selects the modulation source for the input level         g       Spread       050       Sets the width of the stereo image of the effect sound         h       Src       OffTempo       Table, "Dynamic Modulation source for the signal		Amt	-100+100		
Low Damp [%]       0100       Sets the damping amount in the low range         Input Level Dmod [%]       -100+100       Sets the modulation amount of the input level         src       OffTempo       Selects the modulation source for the input level         g       Spread       050       Sets the width of the stereo image of the effect sound         h       Wet/Dry       Dry, 1:9999:1, Balance between the wet and dry signal         Src       OffTempo       Table , "Dynamic Modulation sources," on page 366	0	High Damp [%]	0100		
f     Dmod [%]     -100+100     input level       f     Src     OffTempo     Selects the modulation source for the input level       g     Spread     050     Sets the width of the stereo image of the effect sound       h     Wet/Dry     Dry, 1:9999:1, Wet signal     Balance between the wet and dry signal       Src     OffTempo     Table , "Dynamic Modulation sources," on page 366	e	Low Damp [%]	0100		
Src         OffTempo         Selects the modulation source for the input level           g         Spread         050         Sets the width of the stereo image of the effect sound           wet/Dry         Dry, 1:9999:1, Wet         Balance between the wet and dry signal           h         Src         OffTempo           Table , "Dynamic Modulation sources," on page 366	£		-100+100		
g     Spread     050     of the effect sound       Wet/Dry     Dry, 1:9999:1, Wet     Balance between the wet and dry signal       h     Src     OffTempo       Table , "Dynamic Modulation sources," on page 366		Src	OffTempo		
Wet/Div         Wet         signal           h         Src         OffTempo         Table , "Dynamic Modulation sources," on page 366	g	Spread	050		
sources," on page 366		Wet/Dry			
Amt –100+100 Amount of modulation source	h	Src	OffTempo		
		Amt	-100+100	Amount of modulation source	

# 121: St/Cross Long Delay (Stereo/Cross Long Delay)

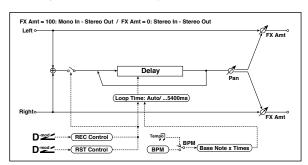
This is a stereo delay, and can by used as a cross-feedback delay effect in which the delay sounds cross over between left and right by changing the feedback routing. You can set a maximum of 2,730msec for the delay time.



а	Stereo/Cross	Stereo, Cross	Switches between stereo delay and cross-feedback delay	
b	L Delay Time [msec]	0.02730.0	Sets the delay time for the left channel	
с	R Delay Time [msec]	0.02730.0	Sets the delay time for the right channel	
	L Feedback	-100+100	Sets the feedback amount for the left channel	
d	Src	OffTempo	Selects the modulation source of feedback amount	
	Amt	-100+100	Sets the modulation amount of the left channel feedback	
e	R Feedback	-100+100	Sets the feedback amount for the right channel	
e	Amt	-100+100	Sets the modulation amount of the right channel feedback	
f	High Damp [%]	0100	Sets the damping amount in the high range	
g	Low Damp [%]	0100	Sets the damping amount in the low range	
h	Input Level Dmod [%]	-100+100	Sets the modulation amount of the input level	
	Src	OffTempo	Selects the modulation source for the input level	
i	Spread	-50+50	Sets the width of the stereo image of the effect sound	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
j	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

# 122: Hold Delay

This effect records the input signal and plays it back repeatedly. You can control the start of recording and reset via a modulation source. Easy to use for real-time performances.



		r		
а	Loop Time [msec]	Auto, 110800	Sets Automatic loop time setup mode or specifies loop time	
b	Loop BPM Sync	Off, On	Specifies whether delay time is set in milliseconds, or as a note value relative to tempo	D∰.
с	BPM	MIDI, 40.00 300.00	MIDI syncs to the system tempo; 40– 300 sets the tempo manually for this individual effect	
Ľ	Time Over?	, OVER!	An error indication that appears if delay time exceeds the upper limit when MIDI/Tempo Sync=On	
d	Loop Base Note	rw	Selects the type of notes to specify the delay time	
u	Times	x1x32	Sets the number of notes to specify the delay time	
e	REC Control Src	OffTempo	Selects control source for recording	
f	RST Control Src	OffTempo	Selects control source for reset	
g	Manual REC Control	REC Off, REC On	Sets the recording switch	
h	Manual RST Control	Off, RESET	Sets the reset switch	
	Pan	L100L1, C, R1R100	Sets the stereo image of the effect	
i	Src	OffTempo	Selects the modulation source of stereo image of the effect	
	Amt	-100+100	Sets the modulation amount of stereo image of the effect	
j	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

#### a: Loop Time [msec]

With Auto, the loop time is automatically set. Otherwise, you can specify the loop time.

When Auto is selected, the Loop Time is automatically set to the time it takes for a performance recorded while the Modulation Source or "Manual REC Control" is on. However, if the time length exceeds 10,800msec, the loop time will be automatically set to 10,800msec.

#### c: Time Over?

You can set the delay time up to 10,800msec. If the delay time exceeds this limit, the error message "OVER!" appears in the display. Set the delay time parameters so that this message will not appear. "Time Over?" is only a display parameter.

b: Loop BPM Sync c: BPM d: Loop Base Note d: Times

If "Loop BPM Sync" is on, the "Times" setting is ignored; the loop time is determined by "BPM," "Loop Base Note," and

"Times." Even in this case, the delay time cannot exceed 10,800 msec.

#### "Hold" procedure (when Loop Time = Auto)

- "Rec Src"JS +Y: #01
   "Reset Src"JS -Y: #02
   "Manual REC Control"REC Off
   "Manual RST Control"RESET
   "Loop Time [msec]"Auto
   "MIDI/Tempo Sync"Off
   It should be noted that all recordings will be deleted while Reset is On.
- 2. "Manual RST Control"Off Reset is cancelled and the unit enters Rec ready mode.
- 3. Push the joystick in the +Y direction (forward) and play a phrase you wish to hold. When you pull the joystick to its original position, the recording will be finished and the phrase you just played will be held.

Loop Time is automatically set only for the first recording after resetting. If the time length exceeds 10,800msec, Loop Time will be automatically set to 10,800msec. (If you have set "Times" to 1–10,800msec, the specified loop time will be used regardless of the time taken from pushing the joystick forward until it is pulled back. However, the recording method remains the same. The phrase being played while the joystick is pushed forward will be held.)

- **4.** If you made a mistake during recording, pull the joystick in the –Y direction (back) to reset. In this way, the recording will be erased. Repeat step 4. again.
- **5.** The recorded phrase will be repeated again and again. You can use this to create an accompaniment.
- 6. By pushing the joystick in the +Y direction (forward), you can also overdub performances over the phrase that is being held.

#### e: REC Control Src g: Manual REC Control

"REC Control Src" selects the modulation source that controls recording.

If this modulation is on, or if "Manual REC Control" is set to On, you can record the input signal. If a recording has already been carried out, additional signals will be overdubbed.

MD The effect is off when a value for the modulation source specified for the "REC Control Src" parameter is 63 or smaller, and the effect is on when the value is 64 or higher.

#### f: RST Control Src h: Manual RST Control

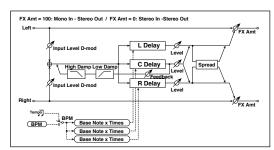
The "RST Control Src" parameter specifies the modulation source that controls the reset operation.

When you set this modulation source to On, or "Manual RST Control" to RESET, you can erase what you recorded. If the Loop Time parameter has been set to Auto, the loop time is also reset.

MD The effect is off when a value for the modulation source specified for the "RST Control Src" parameter is 63 or smaller, and the effect is on when the value is 64 or higher.

#### 123: LCR BPM Long Dly

The L/C/R delay enables you to match the delay time with the song tempo.



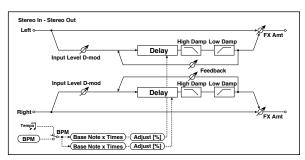
a	BPM	MIDI, 40.00 300.00	MIDI syncs to the system tempo; 40– 300 sets the tempo manually for this individual effect	<u>م</u>
	Time Over?	, OVER!	Displays an error message when the delay time exceeds the upper limit	
	L Delay Base Note	rw	Selects the type of notes to specify the delay time for TapL	<u> Д</u>
b	Times	x1x32	Sets the number of notes to specify the delay time for TapL	
	Level	050	Sets the output level of TapL	
	C Delay Base Note	rw	elects the type of notes to specify the delay time for TapC	<u>Д</u> §ул
с	Times	x1x32	Sets the number of notes to specify the delay time for TapC	
	Level	050	Sets the output level of TapC	
	R Delay Base Note	rw	Selects the type of notes to specify the delay time for TapR	Ą
d	Times	x1x32	Sets the number of notes to specify the delay time for TapR	
	Level	050	Sets the output level of TapR	
	Feedback (C Delay)	-100+100	Sets the feedback amount of TapC	
e	Src	OffTempo	Selects the modulation source for the TapC feedback	
	Amt	-100+100	Sets the modulation amount of the TapC feedback	
f	High Damp [%]	0100	Sets the damping amount in the high range	
	Low Damp [%]	0100	Sets the damping amount in the low range	
a	Input Level Dmod [%]	-100+100	Sets the modulation amount of the input level	
g	Src	OffTempo	Selects the modulation source for the input level	
h	Spread	050	Sets the width of the stereo image of the effect sound	
	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
i	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

#### a: Time Over?

You can set the delay time up to 10,920msec. If the delay time exceeds this limit, the error message "OVER!" appears in the display. Set the delay time parameters so that this message will not appear. "Time Over?" is only a display parameter.

## 124: St. BPM Long Dly (Stereo BPM Long Delay)

The stereo delay enables you to match the delay time with the song tempo.



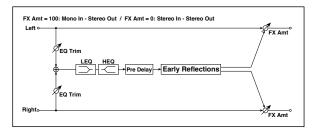
	BPM	MIDI, 40.00 300.00	MIDI syncs to the system tempo; 40– 300 sets the tempo manually for this individual effect	- Дууг
а	Time Over? L	, OVER!	Display the error message if the left channel delay time exceeds the upper limit	
	R	, OVER!	Display the error message if the right channel delay time exceeds the upper limit	
	L Delay Base Note	rw	Selects the type of notes to specify the left channel delay time	<u>а</u>
b	Times	x1x32	Sets the number of notes to specify the left channel delay time	
	Adjust [%]	-2.50+2.50	Fine-adjust the left channel delay time	
	R Delay Base Note	rw	Selects the type of notes to specify the right channel delay time	ф.
с	Times	x1x32	Sets the number of notes to specify the right channel delay time	
	Adjust [%]	-2.50+2.50	Fine-adjust the right channel delay time	
	L Feedback	-100+100	Sets the feedback amount for the left channel	
d	Src	OffTempo	Selects the modulation source of feedback amount	
	L Amt	-100+100	Sets the modulation amount of the left channel feedback	
	R Feedback	-100+100	Sets the feedback amount for the right channel	
e	R Amt	-100+100	Sets the modulation amount of the right channel feedback	
f	High Damp [%]	0100	Sets the damping amount in the high range	
g	Low Damp [%]	0100	Sets the damping amount in the low range	
h	Input Level Dmod [%]	-100+100	Sets the modulation amount of the input level	
	Src	OffTempo	Selects the modulation source for the input level	
i	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

#### a: Time Over? L, R

You can set the delay time up to 5,460msec. If the delay time exceeds this limit, the error message "OVER!" appears in the display. Set the delay time parameters so that this message will not appear. "Time Over?" is only a display parameter.

## 125: Early Reflections

This early reflection effect has more precise early reflections with twice the maximum length of a normal-size effect (See "Early Reflections" on page 410.). You can create a very smooth and dense sound.



а	Туре	Sharp, Loose, Modulated, Reverse	Selects the decay curve for the early reflection	
b	ER Time [msec]	101600	Sets the time length of early reflection	
с	Pre Delay [msec]	0200	Sets the time taken from the original sound to the first early reflection	
d	EQ Trim	0100	Sets the input level of EQ applied to the effect sound	
	Pre LEQ Fc	Low, Mid-Low	Selects the cutoff frequency (low or mid-low) of the low-range equalizer	
e	Pre HEQ Fc	High, Mid-High	Selects the cutoff frequency (high or mid-high) of the high-range equalizer	
f	Pre LEQ Gain [dB]	-15.0+15.0	Sets the gain of Low EQ	
т	Pre HEQ Gain [dB]	-15.0+15.0	Sets the gain of High EQ	
g	Wet/Dry	Dry, 1:9999:1, Wet	Balance between the wet and dry signal	
	Src	OffTempo	Table , "Dynamic Modulation sources," on page 366	
	Amt	-100+100	Amount of modulation source	

# Assignable parameters

# List of Pedal/Footswitch functions

The following functions can be assigned to an Assignable Foot-switch or Pedal.

Function	Meaning
Functions assignable to a Footswitch	
Off	No function assigned
Style Start/Stop	Same functions of the control panel buttons
Play Stop Player 1	with the same name
Play Stop Player 2	
Go to Beginning-Player 1	
Go to Beginning-Player 2	
Chord Seq. Record	
Chord Seq. Play	
Synchro Start	
Synchro Stop	
Tap Tempo/Reset	
Tempo Lock	
Ritardando	Progressively decreases the Tempo value
Accelerando	Progressively increases the Tempo value
Tempo Up	Increases the Tempo value
Tempo Down	Decreases the Tempo value
Intro 1	Same functions of the control panel buttons
Intro 2	with the same name
Intro 3/Count In	
Ending 1	
Ending 2	]
Ending 3	
Fill 1	
Fill 2	
Fill 3	
Fill 4	
Auto Fill	
Break	
Variation 1	
Variation 2	
Variation 3	
Variation 4	
Variation Up	Selects the next Variation
Variation Down	Selects the previous Variation
Fade In/Out	Same functions of the control panel buttons
Memory	with the same name
Bass Inversion	
Manual Bass	
Split	
Style Up	Selects the next Style
Style Down	Selects the previous Style

Function	Meaning
STS Mode	Same functions of the control panel buttons with the same name
STS1	
STS2	7
STS3	7
STS4	7
STS Up	Selects the next STS
STS Down	Selects the previous STS
Perform. Up	Selects the next Performance
Perform. Down	Selects the previous Performance
Style Change	Style number
Transpose (b)	Same functions of the control panel buttons
Transpose (#)	with the same name
Upper Octave Up	-
Upper Octave Down	-
Punch In/Out	Turns Punch Recording on/off
Style-Upper1 Mute	
Style-Upper2 Mute	
Style-Upper3 Mute	
Style-Lower Mute	
Style-Drum Mute	
Style-Percussion Mute	
Style-Bass Mute	
Style-Acc1 Mute	
Style-Acc2 Mute	
Style-Acc3 Mute	
Style-Acc4 Mute	
Style-Acc5 Mute	
Style-Acc1-5 Mute	
Song-Melody Mute	Mute of the Standard MIDI File's track selected as the Melody track (Global:Mode Prefer- ence>Song & Seq.).
Vocal Remover	Voice removal from the MP3 file
Song-Drum&Bass Mode	Mute of all tracks, apart for track 2 (usually Bass) and 10 (usually Drum). It doesn't work or MP3 files.
Solo Selected Track	
Damper Pedal	
Soft Pedal	
Sostenuto Pedal	
Bass&Lower Backing	When the Style is not playing and you are in Split mode, you can play the Lower track with your left hand, while the Bass still plays the chord root. See "Bass & Lower Backing" on page 137 of the User's Manual.
Ensemble	
QuarterTone	Turns Quarter Tone on/off
Global-Scale	When the switch or footswitch is pressed, the Global > General Controls > Scale is recalled in the display.

Function	Meaning
SubScale Preset 1-SC1	Same functions of the SC Preset buttons in the
SubScale Preset 2-SC2	display.
SubScale Preset 3-SC3	
SubScale Preset 4-SC4	
Chord Latch	Lolde the recognized should until the pedal is
	Holds the recognized chord until the pedal is released
Chord Latch + Damper	Holds the recognized chord until the pedal is released, and sustains the tracks where the Damper has been turned on
Glide	When the pedal is pressed, affected notes on Upper tracks are bent down, according to set- tings for the Pitch Bend on the same tracks. When the pedal is released, notes return to the normal pitch, at the speed defined by the "Time" parameter (see "Glide" on page 202 of the User's Manual).
Mic In Mute	
Mic Talk	Turns all Voice Processor effects down, to let you address the audience. See "Voice Proces- sor Setup: Talk" on page 99.
Mic Lead On/Off	On/off switch controls assigned to the Voice
Mic Harmony On/Off	Processor. Press to activate, press a second time to deactivate.
Mic FX On/Off	
FX CC12 Switch	Standard FX controllers
FX CC13 Switch	
Rotary Spkr On/Off	
Rotary Spkr Fast/Slow	
Drawbar Perc On/Off	
Text Page Down	These options let you move to the previous or next page, when reading a text file loaded with a Song or Song Book entry (see "Text files loaded with Standard MIDI Files and MP3 files" on page 170 of the User's Manual).
Text Page Up	
SongBook Next	Moves to the next SongBook entry in the selected Custom List.
Pad 1	Same functions of the control panel buttons
Pad 2	with the same name
Pad 3	
Pad 4	
Pad Stop	
Sound Controller 1	To be used as triggers for two DNC parameter (transmit CC#80 or CC#81). When these func- tions are assigned to the selected physical controller, this latter becomes the corre- sponding Sound Controller (Sound Controller 1 or Sound Controller 2). You can then use this Sound Controller to control any of the DNC parameters.
Sound Controller 2	
Functions assignable to a Po	edal
Master Volume	
Accompaniment Volume	
Keyboard Expression	
Pad Volume	With this function assigned, you can control the proportional volume of all four Pads at the same time. Please note that the status of the Pad's volume, after having been modified with a pedal or slider, is made current, and will be saved in a Performance or STS by using the rel- evant Write procedure.

Function	Meaning
MP3 Volume	
Joystick +X	Joystick right
Joystick -X	Joystick left
Joystick +Y	Joystick forward
Joystick -Y	Joystick backward
Upper VDF Cutoff	Filter cutoff (for Sounds assigned to the Upper tracks)
Upper VDF Resonance	Filter resonance (for Sounds assigned to the Upper tracks)
Mic In Volume	
Mic Lead Voice Level	Continuous controls assigned to the Voice
Mic Harmony Level	Processor.
Mic Lead to Delay	
Mic Harmony to Delay	
Mic Reverb Level	
Mic FX Level	
FX CC12 Ctl	Standard FX controllers
FX CC13 Ctl	

# List of Assignable Knob functions

The following functions can be assigned to the Assignable Knob.

Function	Meaning
Off	No function assigned
Keyboard Expression	
Pad Volume	
MP3 Volume	
Joystick +X	
Joystick -X	
Joystick +Y	
Joystick -Y	
Upper VDF Cutoff	
Upper VDF Resonance	
Mic Lead Voice Level	Continuous controls assigned to the Voice
Mic Harmony Level	Processor
Mic Lead to Delay	
Mic Harmony to Delay	
FX CC12 Ctl	
FX CC13 Ctl	

# List of Assignable Switches functions

The following functions can be assigned to the Assignable Switches.

Function	Meaning
	-
Off	No function assigned
Ritardando	Progressively increases the Tempo value
Accelerando	Progressively decreases the Tempo value
Style Up	Selects the next Style
Style Down	Selects the previous Style
Perform. Up	Selects the next Performance
Perform. Down	Selects the previous Performance
Style-Upper1 Mute	
Style-Upper2 Mute	
Style-Upper3 Mute	
Style-Lower Mute	
Style-Drum Mute	
Style-Percussion Mute	
Style-Bass Mute	
Style-Acc1 Mute	
Style-Acc2 Mute	
Style-Acc3 Mute	
Style-Acc4 Mute	
Style-Acc5 Mute	
Style-Acc 1-5 Mute	
Song-Melody Mute	Mute the Standard MIDI File's track selected as the Melody track (Global > Mode Preferences > Song & Seq.)
Vocal Remover	Voice removal from MP3 Songs
Song-Drum&Bass Mode	Mute of all tracks, apart for track 2 (usually Bass) and 10 (usually Drum)
Solo Selected Track	
Bass&Lower Backing	Mutes all tracks, except for Bass and Lower
QuarterTone	Turns Quarter Tone on/off
Global-Scale	
SubScale Preset1-SC1	
SubScale Preset2-SC2	Scale selection
SubScale Preset3-SC3	
SubScale Preset4-SC4	
Mic Talk	Turns all Voice Processor effects down, to let you address the audience. See "Talk" on page 275.
Mic Lead On/Off	On/Off controls assigned to the Voice Proces-
Mic FX On/Off	sor. Press to activate, press a second time to deactivate.
FX CC12 Switch	Standard FX controllers
FX CC13 Switch	
Rotary Spkr On/Off	
Rotary Spkr Fast/Slow	
Text Page Down	These options let you move to the previous or
Text Page Up	next page, when reading a text file loaded with a Song (see "Text files loaded with Stan- dard MIDI Files and MP3 files" on page 312) or Song Book entry (see "On-the-fly TXT loading" on page 312).

Function	Meaning
SongBook Next	Moves to the next SongBook Entry in the selected Custom List.
Sound Controller 1	Controls assigned to selected Sounds parame-
Sound Controller 2	ters

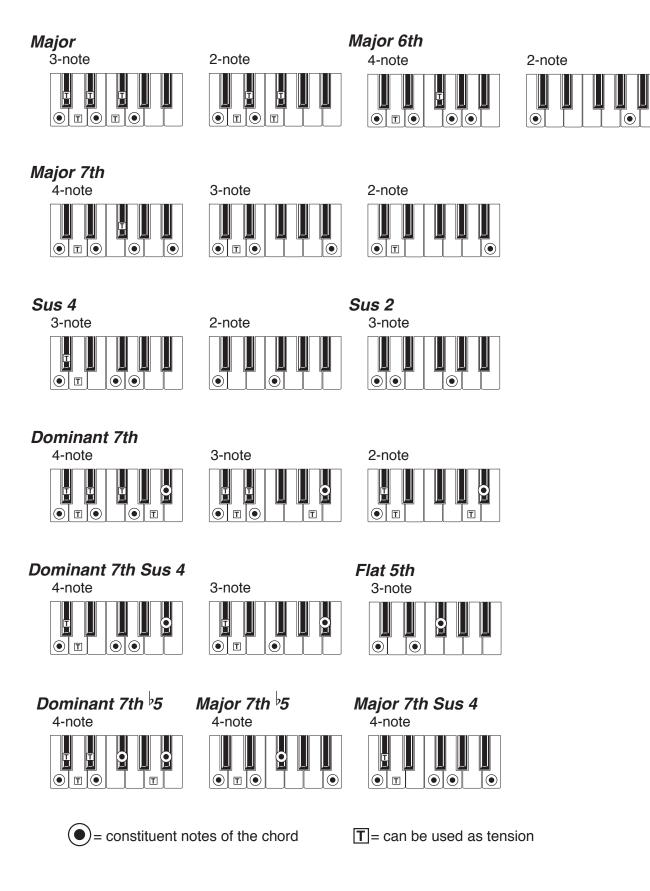
# **Scales**

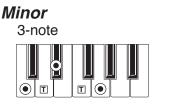
The following is a list of scales (or tunings) you can select in various operating modes.

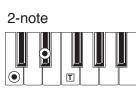
Equal	Equal tuning, the standard scale for modern Western music. It is made of 12 identical semi- tones.
Pure Major	Major chords in the selected key are perfectly tuned.
Pure Minor	Minor chords in the selected key are perfected tuned.
Arabic	An arabic scale, using quarters of tone. Set the Key parameter as follow:
	C - for the "rast C/bayati D" scale
	D - for the "rast D/bayati E" scale
	F - for the "rast F/bayati G" scale
	G - for the "rast G/bayati A" scale
	A# - for the "rast Bb/bayati C" scale
Pythagorean	Pythagorean scale, based on the music theories of the great Greek philosopher and matematician. It is most suitable for melodies.
Werckmeister	r
	Late Baroque/Classic Age scale. Very suitable for XVIII Century music.
Kirnberger	Harpsichord scale, very common during the XVIII Century.
Slendro	Scale of the Indonesian Gamelan. The octave is divided in 5 notes (C, D, F, G, A). The remaining notes are tuned as in the Equal tuning.
Pelog	Scale of the Indonesian Gamelan. The octave is divided in 7 notes (all white keys, when Key is = $C$ ). The black keys are tuned as in the Equal tuning.
Stretch	Simulates the "stretched" tuning of an acoustic piano. Basically an equal tuning, the lowest notes are slightly lower, while the highest notes are slightly higher than the standard.
User	User scale, i.e. scale programmed by the user for the Style Play, Backing Sequence and Song Play modes. The user scale can be saved to a Perfor- mance, Style Settings, STS or Song. You can't select a User scale in Global mode.

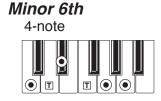
# **Recognized chords**

The following pages show the most important chords recognized by the Pa3XLe, when the selected Chord Recognition mode is Fingered (see "Chord Recognition" on page 258 of the User's Manual).

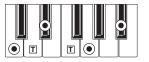


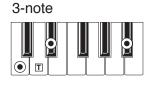




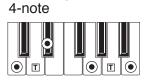


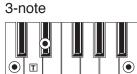




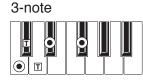


Minor-Major 7th

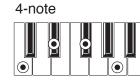




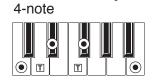
Diminished

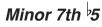


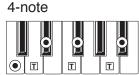
**Diminished 7th** 



Diminished Major 7th

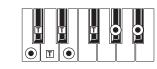




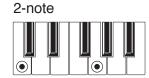




Augmented 7th 4-note







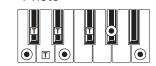
No 3rd, no 5th 1-note





 $(\bullet)$  = constituent notes of the chord

Augmented Major 7th 4-note



 $\mathbf{T}$  = can be used as tension

# **MIDI Data**

# **MIDI Controllers**

The following is a table including all Control Change messages, and their effect on various Pa3XLe functions. Note that not all controllers are available in all operative modes.

CC#	CC Name	Pa3XLe Function
0	Bank Select	Sound selection
1	Mod1 (Y+)	Joystick forward
2	Mod2 (Y-)	Joystick backward
3	Undef. ctl	
4	Foot ctl	
5	Port.time	
6	Data ent.	
7	Volume	Track volume
8	Balance	
9	Undef. ctl	
10	Pan Pot	Track panning
11	Expression	Expression
12	Fx Ctl 1	CC#12
13	Fx Ctl 2	CC#13
14-15	Undef. ctlþ	
16	Gen.pc.1	
17	Gen.pc.2	
18	Slider	
19	Gen.pc.4	
20-31	Undef. ctlþþ	
Change #0-3		Least Significant Bytet) of Control nificant Byte), and are changed accord-
64	Damper	Damper pedal
65	Portamento	
66	Sostenuto	Sostenuto pedal
67	Soft	Soft pedal
68	Legato	
69	Hold 2	
70	Sustain level	
71	F.Res.Hp	Filter resonance
72	Release	Release time
73	Attack	Attack time
74	F.CutOff	Filter cutoff (Brilliance)
75	Decay T.	Decay time
76	Lfo1 Sp.	Vibrato speed
77	Lfo1 Dpt	Vibrato depth
78	Lfo1 Dly	Vibrato initial delay
79	FilterEgþ	
80	Gen.pc.5	Sound Controller 1
81	Gen.pc.6	Sound Controller 2
82	Gen.pc.7	
83	Gen.pc.8	
84	Port.ctl	
85-90	Undef. ctl	

CC#	CC Name	Pa3XLe Function
91	Fx 1 depth	A/B Master FX 1 (reverb) send level
92	Fx 2 ctl	
93	Fx 3 depth	A/B Master FX 2 (modul.) send level
94	Fx 4 ctl	
95	Fx 5 ctl	
96	Data Inc	
97	Data Dec	
98	NRPN Lsb	See table below ^(*)
99	NRPN Msb*	See table below ^(*)
100	RPN Lsb	See MIDI Implementation Chart
101	RPN Msb	See MIDI Implementation Chart
102-119	Undefined ctl	
120	AllSOff	
121	Res Ctl	Reset All Controllers
122	LocalCt	
123	NoteOff	
124	OmniOff	
125	Omni On	
126	Mono On	
127	Poly On	

(*) The following NRPN messages are recognized by Pa3XLe in Song Play and Sequencer mode only:

NRPN	CC#99 (MSB)	CC#98 (LSB)	CC#06 (Data Entry)
Vibrato Rate	1	8	0127 ^(a)
Vibrato Depth	1	9	0127 ^(a)
Vibrato Decay	1	10	0127 ^(a)
Filter Cutoff	1	32	0127 ^(a)
Resonance	1	33	0127 ^(a)
EG Attack Time	1	99	0127 ^(a)
EG Decay Time	1	100	0127 ^(a)
EG Release Time	1	102	0127 ^(a)
Drum Filter Cutoff	20	dd ^(b)	0127 ^(a)
Drum Filter Resonance	21	dd ^(b)	0127 ^(a)
Drum EG Attack Time	22	dd ^(b)	0127 ^(a)
Drum EG Decay Time	23	dd ^(b)	0127 ^(a)
Drum Coarse Tune	24	dd ^(b)	0127 ^(a)
Drum Fine Tune	25	dd ^(b)	0127 ^(a)
Drum Volume	26	dd ^(b)	0127
Drum Panpot	28	dd ^(b)	0127 ^(a)
Drum Rev Send (FX 1)	29	dd ^(b)	0127 ^(a)
Drum Mod Send (FX 2)	30	dd ^(b)	0127 ^(a)

(a). 64 = No change to the original parameter's value

(b). dd = Drum Instrument No. 0...127 (C0...C8)

*Note:* These controls are reset when stopping the Song, or choosing *a new Song.* 

(*) The following NRPN messages are recognized by Pa3XLe in Style Play and Song Play mode only:

NRPN	CC#99	CC#98	CC#06
	(MSB)	(LSB)	(Data Entry)
SongBook Entry	2	64	099

# **Style Elements**

**Note:** You can remotely select the various Style Elements on the Pa3XLe, by sending it Program Change messages on the Control channel (see "MIDI > MIDI In Channels" on page 266).

РС	Style Element	РС	Style Element	РС	Style Element	РС	Style Element	РС	Style Element
80	Intro 1	81	Intro 2	82	Intro 3/Count In	83	Variation 1	84	Variation 2
85	Variation 3	86	Variation 4	87	Fill 1	88	Fill 2	89	Fill 3
90	Fill 4	91	Break	92	Ending 1	93	Ending 2	94	Ending 3

*Note: The above Program Change numbers are given according to the 0-127 numbering system.* 

# **Style and Player controls**

**Note:** You can remotely send various commands to the Style and Player of the Pa3XLe, by sending it Program Change messages on the Control channel (see "MIDI > MIDI In Channels" on page 266).

PC	Style Element	РС	Style Element	РС	Style Element	РС	Style Element	РС	Style Element
95	Fade In/Out	96	STS Mode	97	Auto Fill	98	Memory	99	Bass Inversion
100	Manual Bass	101	Tempo Lock	102	Style Change	103	Start/Stop (Style)	104	Play/Stop (Player)

*Note:* The above Program Change numbers are given according to the 0-127 numbering system.

# **Single Touch Settings (STS)**

**Note:** You can remotely select Single Touch Settings (STS) on the Pa3XLe, by sending it Bank Select MSB (CC#0), Bank Select LSB (CC#32) and Program Change messages on the Control channel (see "MIDI > MIDI In Channels" on page 266). If a Style is already selected, just send the Program Change message.

CC#0	CC#32	РС	STS	РС	STS	РС	STS	РС	STS
The same as the Style to which the STS belongs		64	STS 1	65	STS 2	66	STS 3	67	STS 4

*Note:* The above Control Change and Program Change numbers are given according to the 0-127 numbering system.

# **MIDI Preset**

		Default	Master Kbd	Player	Acc ordion 1	Acc ordion 2	Acc ordion 3	Tablet
	1	Ply Tr 1	Global	Ply Tr 1	Global	Upper 1	Upper 1	-
	2	Ply Tr 2	Control	Ply Tr 2	Lower	Lower	Lower	-
	3	Ply Tr 3	-	Ply Tr 3	Bass	-	Bass	-
	4	Ply Tr 4	-	Ply Tr 4	-	Upper 2	Upper 2	-
	5	Ply Tr 5	-	Ply Tr 5	-	Upper 3	Upper 3	-
	6	Ply Tr 6	-	Ply Tr 6	-	-	-	-
	7	Ply Tr 7	-	Ply Tr 7	-	-	-	-
MIDI IN	8	Ply Tr 8	-	Ply Tr 8	-	-	-	-
Channel	9	Ply Tr 9	-	Ply Tr 9	-	Bass	-	-
	10	Ply Tr 10	-	Ply Tr 10	Drum	Drum	Drum	-
	11	Ply Tr 11	-	Ply Tr 11	Percussion	Percussion	Percussion	-
	12	Ply Tr 12	-	Ply Tr 12	Acc 1	Acc 1	Acc 1	-
	13	Ply Tr 13	-	Ply Tr 13	Acc 2	Acc 2	Acc 2	-
	14	Ply Tr 14	-	Ply Tr 14	Acc 3	Acc 3	Acc 3	-
	15	Ply Tr 15	-	Ply Tr 15	Acc 4	Acc 4	Acc 4	-
	16	Ply Tr 16	-	Ply Tr 16	Acc 5	Acc 5	Acc 5	Control
	1	Upper 1	Upper 1	Ply Tr 1	Upper 1	Ply Tr 1	Ply Tr 1	-
	2	Upper 2	Upper 2	Ply Tr 2	Upper 2	Ply Tr 2	Ply Tr 2	-
	3	Upper 3	Upper 3	Ply Tr 3	Upper 3	Ply Tr 3	Ply Tr 3	-
	4	Lower	Lower	Ply Tr 4	Lower	Ply Tr 4	Ply Tr 4	-
	5	-	-	Ply Tr 5	-	Ply Tr 5	Ply Tr 5	-
	6	-	-	Ply Tr 6	-	Ply Tr 6	Ply Tr 6	-
	7	-	-	Ply Tr 7	-	Ply Tr 7	Ply Tr 7	-
MIDI OUT	8	-	-	Ply Tr 8	-	Ply Tr 8	Ply Tr 8	-
Channel	9	-	-	Ply Tr 9	-	Ply Tr 9	Ply Tr 9	-
	10	-	-	Ply Tr 10	-	Ply Tr 10	Ply Tr 10	-
	11	-	-	Ply Tr 11	-	Ply Tr 11	Ply Tr 11	-
	12	-	-	Ply Tr 12	-	Ply Tr 12	Ply Tr 12	-
	13	-	-	Ply Tr 13	-	Ply Tr 13	Ply Tr 13	-
	14	-	-	Ply Tr 14	-	Ply Tr 14	Ply Tr 14	-
	15	-	-	Ply Tr 15	-	Ply Tr 15	Ply Tr 15	-
	16	-	-	Ply Tr 16	-	Ply Tr 16	Ply Tr 16	Control
Chord 1 Chan	n.	Off	1	Off	2	2	2	Off
Chord 2 Chan	n.	Off	Off	Off	3	3	Off	Off
MIDI IN Veloc	ity	Normal	Normal	Normal	110	110	Normal	Normal
MIDI IN Oct. T	rp.	On	On	On	On	On	On	On
MIDI IN Track	Mute	-	On	-	-	-	-	On
Jpper er Oct.	Trp.	0	0	0	0	0	0	0
ower Oct. Tr	р.	0	0	0	0	0	0	0
MIDI IN Filter		Off	Sys. Excl.	Off	Sys. Excl.	Sys. Excl.	Sys. Excl.	Off
MIDI OUT Filt	er	Off	Sys. Excl.	Off	Sys. Excl.	Sys. Excl.	Sys. Excl.	Off

# Installing the Korg USB MIDI Driver

The USB Device port can be used to transfer MIDI data between the Pa3XLe and a personal computer (this is called the *MIDI Over USB* function). This is useful when your computer is not fitted with a MIDI interface.

USB can be used in parallel with the MIDI ports. For example, you can connect your Pa3XLe to a sequencer running on your computer, and at the same time control another MIDI instrument connected to the MIDI ports of Pa3XLe.

Connecting Pa3XLe this ways makes it, at the same time, a MIDI input device, a controller, and a sound generator.

# **Connecting Pa3XLe to a personal computer**

Please install the KORG USB-MIDI Driver, before connecting Pa3XLe to a personal computer. Be sure your personal computer meets the requirement shown on "KORG USB-MIDI Driver system requirements" below.

# KORG USB-MIDI Driver system requirements

#### Windows

*Computer:* A computer with an USB port, that satisfies the requirements of Microsoft Windows Vista, 7 or 8.

**Operating system:** Windows Vista, Windows 7, Windows 8.1 or Windows Vista/7/8.1 x64 Edition.

#### Mac

*Computer:* An Apple Mac with an USB port that satisfies the requirements of Mac OS X.

Operating system: Mac OS X version 10.3 or later.

# Please note before use

Copyright to all software included in this product is the property of Korg Inc.

The license agreement for this software is provided separately. You must read this license agreement before you install this software. Your installation of this software will be taken to indicate your acceptance of this agreement.

# Windows: Installing the KORG USB-MIDI Driver

Please connect Pa3XLe to the computer via an USB cable only after having installed the KORG USB-MIDI Driver Tools.

- Insert the included Accessory DVD into the optical drive of your Windows PC.
- Open the folder DVD-ROM\USB-MIDI Driver\Win -KORG USB-MIDI Driver v.n.nn\ and double-click on "KORG USB-MIDI Driver Tools Setup v.n.nn.exe" to run the installer ("n.nn" meaning the version number).
- **3.** Follow the instructions appearing on screen. At the end, the tools will be installed.
- 4. When installation is completed, connect the DEVICE USB port of your Pa3XLe to one of the USB ports of your Windows PC by using a standard USB cable. The Auto Installer will immediately start.
- When finished, the USB-MIDI driver will be installed, and Pa3XLe will be able to communicate with your computer via USB.

You can access the tools and manuals from the Start menu.

#### **Driver's ports**

After installation, the following ports will be shown in you MIDI application (e.g., sequencer) among the other MIDI devices:

**Pa3XLe KEYBOARD:** This allows for reception of MIDI messages from the Pa3XLe (keyboard and controller's data) to the MIDI application running on the computer.

**Pa3XLe SOUND:** This allows for transmission of MIDI messages from the MIDI application running on the computer, to the internal tone generator of Pa3XLe.

# Mac OS X: Installing the KORG USB-MIDI Driver

- Insert the included Accessory DVD into the optical drive of your Mac.
- 2. If the DVD content does not appear on screen, double-click the DVD icon to open a window in the Finder.
- Open the folder /USB-MIDI Driver/Mac KORG USB-MIDI Driver v.n.nn/ and double-click on "KORG USB-MIDI Driver v.n.n.n.dmg" to open a virtual drive in the Finder ("n.n.n" meaning the version number).
- **4.** Double-click on "KORG USB-MIDI Driver.pkg" to run the installer.
- 5. Follow the instructions appearing on screen.

6. When installation is completed, eject the virtual drive, and connect the DEVICE USB port of your Pa3XLe to one of the USB ports of your Mac by using a standard USB cable.

#### **Driver's ports**

After installation, the following ports will be shown in you MIDI application (e.g., sequencer) among the other MIDI devices:

**Pa3XLe KEYBOARD:** This allows for reception of MIDI messages from Pa3XLe (keyboard and controller's data) to the MIDI application running on the Mac.

**Pa3XLe SOUND:** This allows for transmission of MIDI messages from the MIDI application running on the Mac, to the internal tone generator of Pa3XLe.

# **Replacing the clock backup battery**

You can replace the clock backup battery with a standard lithium battery (model CR2032). Do not use replacements different than the one suggested by Korg, or you risk to damage the instrument! The battery can be replaced by the user. Korg is not responsible for any data loss, damage or injury caused by the incorrect installation of this part.

# **Precautions**

• Installation of the battery is done at the user's own risk. Korg will assume no responsibility for any damage or injury resulting from its improper installation or use.

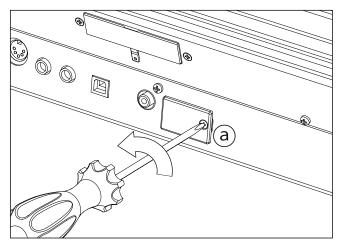
• Be sure to disconnect the instrument from the AC plug, before opening it.

• To prevent your body's static electricity from damaging the board's components, touch an unpainted metallic component before proceeding with the installation.

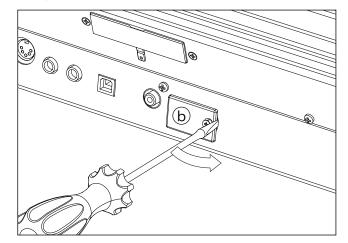
# Installation

For installation, you will need a cross-point and a flat-head screwdrivers (not supplied).

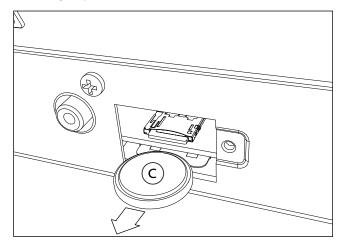
- 1. Disconnect the instrument from the AC power.
- **2.** From the back of the instrument, use the cross-point screwdriver to remove the fixing screw (a).



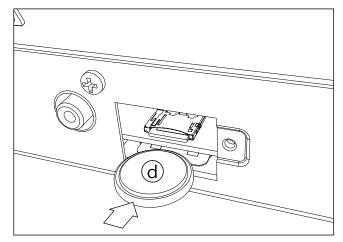
**3.** Use the flat-head screwdriver to open the cover (b) to gain access to the inside of the battery slot, and keep the cover apart.



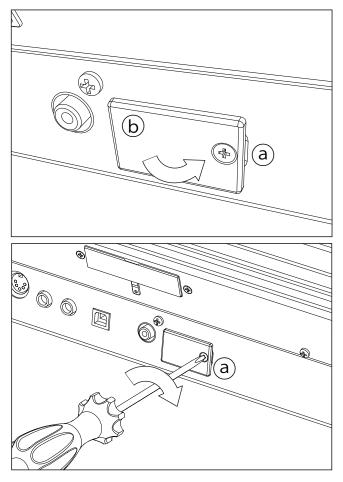
4. With the help of your fingernail, lift the exhausted battery (c) from its lower side, and remove it from the battery slot, being very careful not to let it fall inside the instrument.



5. Insert the new battery (d) into the empty battery slot, being sure the positive (+) side is facing down. Be very careful not to let it fall inside the instrument.



**6.** Replace the cover (b) to the original position. Attach the cover to the back of the instrument by fastening the fixing screw (a).



# Installing a microSD card

To expand the available onboard memory, you can install an (optional) microSD card inside Pa3XLe. The card can be installed by the user. Korg is not responsible for any data loss, damage or injury caused by the incorrect installation of this part.

# Precautions

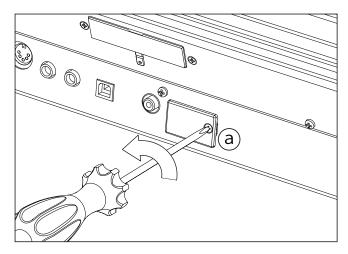
• Be sure to disconnect the instrument from the AC plug, before opening it. **Warning:** Removing or inserting the microSD card while the instrument is connected to the AC plug may damage the instrument!

• To prevent your body's static electricity from damaging the board's components, touch an unpainted metallic component before proceeding with the installation.

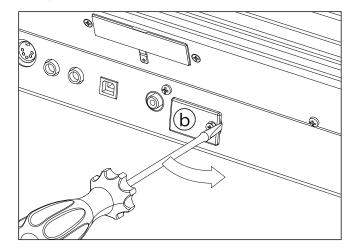
# Installation

For installation, you will need a cross-point and a flat-head screwdrivers (not supplied).

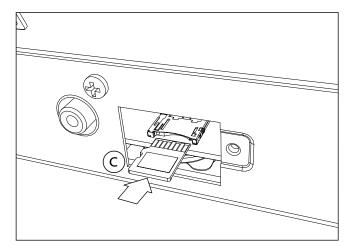
- 1. Disconnect the instrument from the AC plug.
- **2.** From the back of the instrument, use the cross-point screwdriver to remove the fixing screw (a).



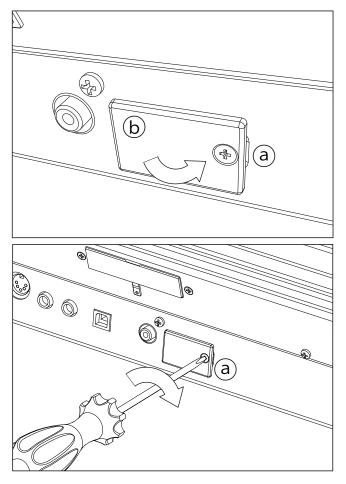
**3.** Use the flat-head screwdriver to open the cover (b) to gain access to the inside of the microSD slot, and keep the cover apart.



4. Insert the microSD card (c) into the empty card slot, being sure the connector side is facing up and toward the instrument. Gently push the card, until you hear a click sound meaning it is properly inserted. Warning: Be sure to insert the card correctly, or it may slip inside the instrument!



**5.** Replace the cover (b) to the original position. Attach the cover to the back of the instrument by fastening the fixing screw (a).



# Accessing the microSD card

Once the microSD Key is installed, restart your Pa3XLe. You can access the microSD card from any Media page, by using the Device selector and choosing the "SD [KORG SD]" storage device.

# Removal

To extract the microSD card from its slot, just follow the installation instructions in reverse.

# Installing the Pa3XLe Amplification System (PaAS)

The (optional) PaAS – Amplification System can be installed, adding to the instrument a three-way amplification system, a pair of integrated speakers and a bass-reflex box.

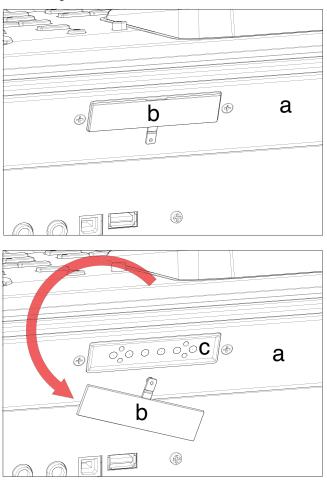
# Precautions

• Installation of the Amplification System is done at the user's own risk. Korg will assume no responsibility for any damage or injury resulting from its improper installation or use.

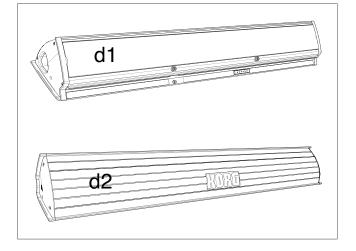
• Be very careful not to make the speaker box fall when installing it, or it can be damaged.

# Installation

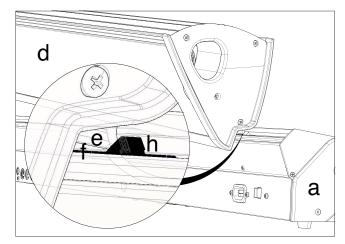
1. Remove the protective cap (b) from the connector (c) on the back of the instrument (a), by gently pulling it and making it turn down.



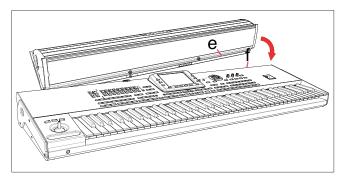
2. Now locate the front (d1) and the rear (d2) side of the speaker box, to be sure you will place it in the right way.



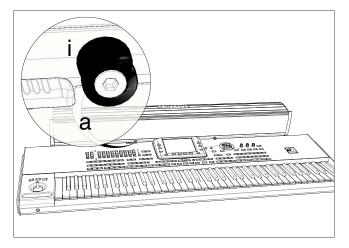
**3.** Lift the speaker box (d) by making the back side (d2) look toward you and the front side (d1) toward the Pa3XLe. Align its extruding guide (e) to the matching slot (f) on the back of the instrument (a). Slightly tilt the speaker box (d) forward, to prevent the fixing pin (k, *see below*) to damage the back of the instrument. To align them correctly, use one of the two plastic stoppers/delimiters (h) as a reference point, making one of the flanks or the speaker box's guide (e) touch it.



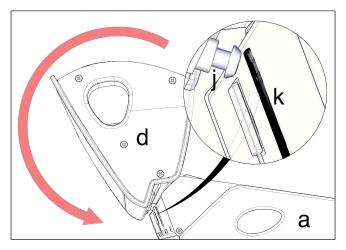
**4.** Insert the speaker box's extruding guide (e) entirely into the slot (f) on the back of the instrument, being sure the speaker box is perfectly horizontal.



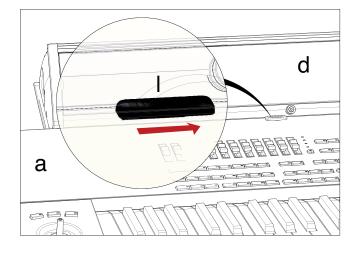
Be sure the nylon supports (i) for the music stand are perfectly resting on the control panel of the instrument (a).



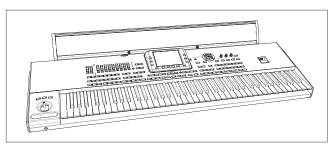
5. When the speaker box (d) is perfectly aligned to the stoppers/delimiters, and the fixing pin (j) is over the corresponding hole (k) on the back of the instrument (a), tilt down the speaker box (d), to make the fixing pin (j) enter the hole (k).



6. Use the SPEAKER LOCK slider (l) next to the display to lock (or later unlock) the speaker box (d). When the box is locked, you must see the closed lock icon ( ). This will firmly join the speaker box (d) to the instrument (a).



**7.** At this point, the speaker box is correctly installed. To remove it, reverse the above instructions.



# **Assembling the ST-SV1 BK stand**

You can use the Korg SV-SV1 BK stand as a steady support for your Pa3XLe.

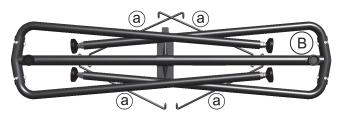
#### **Precautions before assembly**

Before you begin to assemble the stand, please keep the following in mind:

- To assemble the stand, two people are needed. Failing to do so may damage the instrument and cause injury.
- When placing the instrument on the stand, be careful not to pinch your hands.
- Be sure to follow the steps in order, and make sure that the parts are assembled in the correct orientation and position.
- Do not apply weight to the edge of the instrument before tightening the screws, otherwise it may fall down.

#### **Assembly instructions**

1. Open the packing carton and take out the contents. Remove the stand (B) from the package by grabbing it by the four brackets (a). Lay it on the ground, with the legs on top (see illustration).



- **2.** Remove the protective sheet, and keep it in a safe place for future use.
- **3.** Slightly lift the stand, and push the spring bolt (b) located under the tubing.



4. Once the spring bolt has been extended, raise the leg (c), until you hear a 'click'. At this point, the spring bolt (b) is

automatically retracted, and the leg is fixed in place. Please repeat the same procedure for all four legs.



5. Lift the bracket (a), and insert it into the corresponding hole (e) in the leg (c). Repeat the same procedure for all four legs.

**Warning:** Be careful not to pinch your fingers between the leg and the bracket!



**6.** Turn the stand (B) upside down, so that the feet are laying on the floor. Place the concave side of the bracket (f) toward you.



7. Adjust the height of the feet (g), by turning them by hand and leveling the stand on each side, even if it is not completely even. We suggest you prevent the nut (h) from turning with the help of the supplied 11/16" wrench (i). After adjusting each of the feet, make sure that the nut (h) touches the leg's border.



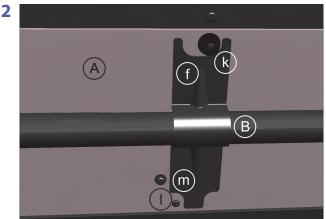
8. Using two people, lift the piano (A), and attach it to the stand (B). While one person prevents the instrument from falling down, the other should make the small rubber foot (k) under the instrument line-up to the concave side of the bracket (f), and the screw (l) under the instrument with the space left on the side of the convex side of the bracket (m).

Align the holes (n) under the piano to match the screws (o) of the stand.

**Warning:** During this step, do not apply weight to the instrument, otherwise it may fall down.







- **9.** If the instrument and the stand are correctly aligned, the screws (o) should fit into the threaded nuts of the holes (n). If this does not happen, align the instrument and stand again. Once the screws are inside the threaded nuts, tighten them to attach the instrument to the stand.
- **10.** Be sure all screw are tightened, and all brackets correctly inserted.
- **11.** Place the instrument in the location where it will be played.

#### **Precautions after assembly**

**Use caution when transporting the instrument.** Remove the instrument from its stand, and transport them separately. Please use the included loop fastener tapes to secure the stand legs during transport and avoid any damage. After transportation, refer to these instructions and re-assemble the instrument and stand.

**Loosening of the screws.** After assembly, the various screws and bolts of the stand may loosen as time goes by, causing the stand to wobble. If this occurs, re-tighten the screws.

**Disassembly.** If you need to packup the instrument, reverse the assembly order by which the instrument was attached to the stand and the stand was assembled. For improved protection, we suggest you also replace the protective sheet (see step 2).

# Shortcuts

## **Shift functions**

You can keep the SHIFT button pressed, and press another button on the control panel to directly jump to an edit page or dialog box.

Shift +	Functions
Any modes	
Dial	Tempo Change
Scroll Arrows	When a list is shown: Goes to Next/Previous alpha- betical section of the currently selected column
Sound	Sends the Sound assigned to the selected track to the Sound mode
Global	Selects the Global > MIDI > General Controls page. This is a quick way to jump to MIDI editing pages.
Media	Selects the Global > Mode Preferences > Media page
Start/Stop	Panic
Fade In/Out	Selects the Fade In/Out parameter in the Global > General Controls > Basic page
Synchro	Selects the Clock Source parameter in the Global > MIDI > General Controls page
Tempo Lock	Selects the Global > General Controls > Lock page
Metro	Selects the Metronome section of the Global > General Controls > Basic page
SongBook	Selects the SongBook > Custom List page
Transpose (either)	Selects the Global > Tuning > Transpose Controls page
Style Play mode	
Style Play	Selects the Global > Mode Preferences > Style page
Chord Scan (either)	
Memory	
Variation	Selects the corresponding Variation in the Style Play > Controls > Drum/Fill page
Ensemble	Selects the Ensemble Type parameter in the Style Play > Keyboard/Ensemble > Ensemble page
Pad (any)	Selects the Style Play > Pad/Assignable Switches > Pad page
Assignable Switch (any)	Selects the Style Play > Pad/Assignable Switches > Switch page
Upper Octave (either)	Selects the Style Play > Mixer/Tuning > Tuning page
Style Record mode	
Assignable Knob	When the Sound/Expression page is shown: Adjusts the Expression level
Tempo+/-	When the Sound/Expression page is shown: Adjusts the Expression level
Song Play mode	
Song Play	Selects the Global > Mode Preferences > Song & Seq page
Upper Octave (either)	Selects the Song Play > Mixer/Tuning > Tuning page
Pad (any)	Selects the Song Play > Pad/Assignable Switches > Pad page
Assignable Switch (any)	Selects the Song Play > Pad/Assignable Switches > Switch page
Play/Stop (either)	Start both Players at the same time

Shift +	Functions				
Record	Open the MP3 Record dialog box				
JukeBox					
>>	Play the next Song in the JukeBox list				
<<	Play the previous Song in the JukeBox list				
Lyrics					
Display	Load a TXT file				
Sequencer mode					
Sequencer	Selects the Global > Mode Preferences > Song & Seq page				
Upper Octave (either)	Selects the Global > Transpose Controls > Tuning page				

### Long keypress

You can keep a button pressed for about one second to directly jump to an edit page or dialog box.

Long keypress	Functions
Any operating modes	
Split	Opens the Split Point dialog box. Play a note to set the new Split Point.
Preset (Mic Setting)	Opens the "Write Voice Preset" window
Style Play mode	
Style	Opens the "Write Current Style Settings" window
Performance	Opens the "Write Performance" window
SongBook	Create a "New SongBook" Entry and open the "Write Song" window (only if pressed outside the SongBook)
STS	Opens the "Write STS" window
Song Play mode	
Performance	Opens the "Write Performance" window.
SongBook	Create a "New SongBook" Entry and open the "Write Song" window (only if pressed outside the SongBook)
Global mode	
Global	Touch Panel Calibration

# **Special functions**

Other available shortcuts are the following ones.

Style Play mode	Style Play mode				
Tempo +/- (together)	Original Tempo				
Transpose #/b (together)	Set the Master Transpose to 0				
Upper Octave +/- (togheter)	Set the Upper Octave to the original setting				
Record	While recording MP3 Song, with MP3 Record Dialog Box closed, it stops the MP3 record and open the "Write Song Dialog)				

# Troubleshooting

Problem	Solution	Page		
General problems				
Power does not turn on	Make sure that (1) the power cable is plugged into the outlet, (2) the cable is plugged into the connector on the back of the instrument, (3) and is not damaged, (4) there are no problems with the mains.			
	Is the STANDBY LED turned on?			
	If the power still does not turn on, contact your dealer or the nearest KORG Service Center.			
Power does not turn off	Press the POWER button again and keep it pressed for a few seconds. At the end, the button's LED will turn off, and the instrument will be set to standby.			
No sound	Is the MASTER VOLUME knob of the Pa3XLe set to a position other than "0"?			
	Is the Spearkers parameter turned off? Turn it on.			
	Check the connections to your amp or mixer.			
	Make sure that all the components of the amplifying system are turned on.			
	Is the Local parameter set to off? Turn it on.			
	Is the Attack parameter value too high? Set it to a lower value, to let the sound start faster. Is the Volume parameter too low? Set it to a higher value.			
Lowest note are not played	When the SPLIT LED is turned on, the keyboard is divided into a Lower part (lower notes, below the split point) and an Upper part (higher notes, above the split point). Is the Lower track muted? Unmute it.			
Wrong sounds	Do the USER banks contain modified data? Load the appropriate data for the Song or the Style you wish to playback.	287		
	Has one of the USER Drum Kits been modified? Load the appropriate Drum Kits.	287		
	Have the Styles or Performances been modified? Load the appropriate data (Styles or Performances).	287		
Sound does not stop	Make sure that the Damper pedal calibration is correctly set.	262		
The selected Style or Song cannot start	Make sure that the Clock parameter is set to Internal. If you are using the MIDI Clock of another device, you must set the MIDI Clock parameter to MIDI or USB (depending on the port the Pa3XLe is hooked to the other device through) and make sure that the external device transmits MIDI Clock data.	265		
Does not respond to MIDI messages	Make sure that all MIDI or USB cables are connected correctly.	315		
	Make sure that the external device is transmitting through MIDI channels enabled to receive in the Pa3XLe.	266		
	Make sure that the MIDI IN Filters of the Pa3XLe do not prevent the reception of messages.	267		
Percussive instruments are not played correctly	Make sure that the Drum track is set to Drum Mode and the external device has not transposition applied.	124, 196		
Some "clicks" can be heard when playing a percussive instrument	This is part of the sound, and not a problem.			
A background noise can be heard after selecting a Performance, Style or STS	The selected Performance, Style or STS recalled the effect "17 St. Analog Record", simulating the noise of a old vinyl recording.			
Media related problems				
Cannot format a device	Is the USB cable correctly connected?			
	Is the USB device correctly powered?			
	Is the device inserted correctly?			
	Is the write protect tab of the disk or card in the protect position? Unprotect it.			
Cannot save data to a device	Is the device formatted?	295		
	Is the device inserted correctly?			
	Is the write protect tab of the disk or card in the protect position? Unprotect it.			
Cannot load data from a device	Is the device inserted correctly?			
	Does the device contain data compatible with the Pa3XLe?	284		
The message "Over Current Condition       The USB device is probably defective, due to a short circuit, and cannot be used. While this will not damage the Pa3XLe, it is advisable to remove the device.         the USB media" appears in the display       The USB device is probably defective, due to a short circuit, and cannot be used. While this will not damage the Pa3XLe, it is advisable to remove the device.				

# **Technical specifications**

Features	Pa3XLe					
Keyboard	76 semi-weighted keys with velocity and aftertouch					
System	Upgradable Operating System, RX (Real eXperience), DNC (Defined Nuance Control), Multitasking, Load while play feature					
Display	Color TouchView™, 7″ TFT display					
Tone Generator	KORG EDS (Enhanced Definition Synthesis) sound generator, 128 Voices, 128 Oscillators, Filters with Resonance, Three band EQ for each track					
Effects	Up to 4 Stereo Digital Multi-Effects block system, 125 Master Effects types + 2 Global Effects					
Voice	Voice Processor Technology by TC Helicon. Three-part Harmonizer, Reverb, Delay, plus Compressor and EQ					
Sounds / Drumkits	More than 1100, including Stereo Piano and GM/GS compatibility; more than 90 Drum Kits. User area: 512 Sounds, 128 Drum Kits. Defined Nuance Control (DNC) Technology improved sounds.					
Digital Drawbars	9 Footages					
Sampling	Sample Recording; Load/Import of Korg, Wav, AIFF and Soundfont; Export of Wav and AIFF; Edit, Time Slice PCM User Memory: 192 MB					
Styles	More than 400 preloaded Styles, freely reconfigurable, 1200 available Style locations including Favorite and User banks. Eight Style tracks, 4 Single Touch Settings, 4 Pads and one Style Setting per Style, Guitar Track 2 mode, Parallel and Fixed NTT, Style Record with Step Record, Track and Event Edit functions. Style controls: 3 Intros, 4 Variations, 4 Fills, Break, 3 Endings, Synchro Start/Stop, Tap Tempo/Reset, Bass Inversion, Auto Fill, Manual Bass, Memory, Accompaniment Mute, Drum Mapping, Snare & Kick Designation, STS Mode					
Chord Sequencer	Realtime Style Chord Sequencer Recorder					
Performance	320 Realtime Performance locations, "My Setting" function					
STS	Memorize Realtime tracks settings, up to 4 x Style, up to 4 x SongBook entries					
Song Play	Patented XDS Crossfade Dual Sequencer Player (supported formats: MID, KAR, MP3 + Lyrics, MP3+G). 2 Players with separate Select, Start/Stop, Home, Rewind and Fast Forward controls, X-Fader Balance control Lyrics, Score, and Chord data can be displayed on screen, or on external video monitor. Markers, Jukebox function.					
MP3 Player / Recorder	Double MP3 Player and MP3 Recorder, Real Time Transpose (+6/-5 semitones), Tempo change (±30%), Vocal Remover. Record MP3 files including Styles, SMF, Real Time Tracks, Pads, Microphone and Effects.					
Sequencer	Quick Record (Backing Sequence), Multitrack and Step Record functions. Full-featured Sequencer, 16 tracks; up to 200,000 events, SMF native format					
SongBook	Fully programmable music database, based on Styles, SMF, Karaoke, MP3 with automatic selection of Style Play and Song Play modes. User-definable custom lists, Filtering and Ordering options.					
Compatibility	i-Series: Styles; Pa-Series: Style, Performance, Program/Sound, Song, SongBook, Pad					
Multi Pad	4 Assignable Pads + Stop Button. Pad Record function					
General Controls	Master Volume; Fade In/Out; Keyboard-Acc/Song Balance Volume; Ensemble; Octave Transpose; Master Transpose; Style Change; Quarter Tone and Arabic Scale memorized inside Performance/STS; Realtime controllers: Joystick (pitch + modulation), Mic Volume, FX Level; Mic On/Off; Mic Preset; Harmony On/Off; 3 Assignable Switches; Tempo +/-; Tempo Lock; Dial; Search Function; Shift; Chord Scan; Split; Metronome On/Off; Sound Select					
Control Inputs	Damper (supports half-pedaling with the optional DS-1H pedal), Assignable Pedal/Footswitch					
Clock	Internal System Clock					
Mass Storage/Disk	SSD standard; microSD (optional, back panel slot)					
MIDI	In, Out; Standard MIDI connectors; USB to MIDI using the USB Device port. 8 user-definable MIDI Setups					
Video Out	RCA connector					
USB	1 USB Host (front) and 1 USB Device (rear), 2.0 Hi Speed connections					
Mic/Line Audio Inputs	2 Unbalanced Jacks; Left/Mono and Right/Mono-Mic with gain control					
Audio Outputs	2 Unbalanced Jacks; Left/Mono, Right/Mono Headphones (in the front panel)					
Power	12 W without PaAS / 35 W with PaAS installed / 0.5 W in standby; 100-240 V, 50/60 Hz					
Dimensions (W x D x H)	1195 x 356 x 121 mm / 47.05 x 14.02 x 4.76 inches (without music stand)					
Weight	13.55 kg / 29.87 lbs					
Accessories	Printed Manual, AC Power Cable, Music Stand, DVD-ROM					
Options	EXP-2 - Expression/Volume Pedal, XVP-10 - Professional Expression/Volume Pedal, DS-1H - Damper Pedal, PS-1/PS-3 Switch Pedal					

Features	Pa3XLe
Amplification and Speakers (optional)	PaAS - Pa Amplification System; 3 Channel Amplification System; 2x20 Watt (Middle/High Frequency) + 1x40 Watt (Sub Woofer); 5 Speakers: 2 Middle range (80 mm) + 2 Tweeters + Dual Coil Subwoofer (130 mm); Aluminum case with Bass Reflex System; Extremely Simple Connection - Power and the audio signal from the Pa3XLe are via a special connector that is automatically attached to the keyboard. No cable, no power supply needs to be attached to the Pa3XLe Dimensions (W x D x H): 992 x 173 x 137 mm / 39.06 x 6.81x 5.39 inch / Weight: 5.7 kg / 12.57 lbs

Specifications and appearance are subject to change without notice for improvement.

# **MIDI Implementation Chart**

KORG Pa3XLe OS Version 1.0 - March 01, 2014

Function		Transmitted	Recognized	Remarks			
	Default	1–16	1–16	Memorized			
Basic Channel	Changed	1–16	1–16				
	Default		3				
Mode	Messages	Х	Х				
	Altered	*****					
Note Number:		0–127	0–127				
	True Voice	*****	0–127				
Velocity	Note On	O 9n, V=1–127	O 9n, V=1–127				
	Note Off	O 8n, V=0–127	O 8n, V=0–127				
	Poly (Key)	0	0	Player data only	*1		
Aftertouch	Mono (Channel)	0	0		*1		
Pitch Bend		0	0				
	0, 32	0	0	Bank Select (MSB, LSB)	*1		
	1, 2	0	0	Modulations	*1		
	6	О	0	Data Entry MSB	*1		
	38	0	0	Data Entry LSB	*1		
	7, 11, 16	О	О	Volume, Expression, Ribbon	*1		
	10, 91, 93	О	0	Panpot, A/B Master FX Send	*1		
Control	64, 66, 67	О	0	Damper, Sostenuto, Soft	*1		
Change	65, 5	0	0	Portamento On/Off, Portamento Time	*1		
	71, 72, 73	0	0	Harmonic Content, EG time (Release, Attack)	*1		
	74, 75	0	0	Brightness, Decay Time	*1		
	76, 77, 78	0	0	Vibrato Rate, Depth, Delay	*1		
	80, 81	О	О	Sound Controller (1, 2)	*1		
	98, 99	0	0	NRPN (LSB, MSB)	*1,2		
	100, 101	0	0	RPN (LSB, MSB)	*1, 3		
	120, 121	Х	О	All sounds off, Reset all controllers	*1		
Program		O 0–127	O 0–127		*1		
Change	True #	*****	0-127				
System Exclusive		0	0		*4		
	Song Position	Х	Х				
System Common	Song Select	Х	Х				
Common	Tune	Х	Х				
System	Clock	0	0		*5		
Real Time	Commands	0	0		*5		
	Local On/Off	Х	Х				
Aux	All Notes Off	Х	O (123-124)				
Messages	Active Sense	О	0				
	Reset	Х	Х				
Notes	*2: Drawbar settings, Sour *3: LSB, MSB = 00,00: Pi *4: Includes Inquiry and M	<ul> <li>*1: Sent and received when MIDI Filters In and Out are set to Off in Global mode.</li> <li>*2: Drawbar settings, Sound parameters, Selection of SongBook entries, Drum Kit Family settings.</li> <li>*3: LSB, MSB = 00,00: Pitch Bend range, =01,00: Fine Tune, =02,00: Coarse Tune.</li> <li>*4: Includes Inquiry and Master Volume messages, FX settings, Quarter Tone settings. GM Mode On.</li> <li>*5: Transmitted only when the Clock Send parameter (Global mode) is set to on.</li> </ul>					

Mode 1:OMNI ON, POLY Mode 3:OMNI OFF, POLY Mode 2:OMNI ON, MONO Mode 4:OMNI OFF, MONO

O: Yes X: No Appendix

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