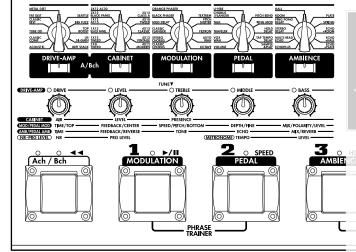
# ToneWorks



# OWNER'S MANUAL



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### Precautions

#### Location

Using the unit in the following locations can result in a malfunction.

- In direct sunlight
- · Locations of extreme temperature or humidity
- Excessively dusty or dirty locations
- Locations of excessive vibration
- Close to magnetic fields

#### Power supply

Please connect the designated AC adaptor to an AC outlet of the correct voltage. Do not connect it to an AC outlet of voltage other than that for which your unit is intended.

#### Interference with other electrical devices

This product contains a microcomputer. Radios and televisions placed nearby may experience reception interference. Operate this unit at a suitable distance from radios and televisions.

#### Handling

To avoid breakage, do not apply excessive force to the switches or controls.

#### Care

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.

#### Keep this manual

After reading this manual, please keep it for later reference.

#### Keeping foreign matter out of your equipment

Never set any container with liquid in it near this equipment. If liquid gets into the equipment, it could cause a breakdown, fire, or electrical shock.

Be careful not to let metal objects get into the equipment. If something does slip into the equipment, unplug the AC adaptor from the wall outlet. Then contact your nearest Korg dealer or the store where the equipment was purchased.

### THE FCC REGULATION WARNING (for U.S.A.)

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 will not occur in a particular installation. If this equipment does cause harmful 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).

# 1. Introduction

Thank you for purchasing the **ToneWorks AX1500G Modeling Signal Processor**. In order to enjoy your **AX1500G** to the fullest, please read this manual carefully, to ensure maximum performance. Please keep this manual for future reference.

# Main features

- Korg's **TEMS** modeling technology provides detailed and powerful modeling sounds.
- 56 types of modeling effect variations are built-in, and a maximum of eight types of effect can be used simultaneously.
- 48 preset programs (3 x 16 banks) and 48 rewritable user programs (3 x 16 banks) are built-in.
- You can switch between effect channels (A, B) to change the combination of the drive amp effect and the cabinet effect without switching programs.
- Use the effect block select knobs to instantly switch the effects for each of the five effect blocks (DRIVE-AMP, CABINET, MODULATION, PEDAL, AMBIENCE).
- You can use the expression pedal to control eleven types of pedal effects in realtime.
- In individual mode you can use foot switches to turn each effect on/off independently.
- The Sample & Play function lets you record a phrase that you play (for a maximum of 8 seconds), and then operate the pedal to play back the phrase.
- The built-in Phrase Trainer function lets you record sound from an audio device or a guitar performance (maximum 16 seconds), and play it back at a slower speed without changing the pitch.
- A metronome is built in for practicing convenience.
- Built in tuner mute function for on stage tuning.
- An AUX IN jack is provided so that you can play along with a connected audio device.
- Use the auto chromatic tuner to tune your instrument when the AX1500G is bypassed or muted.
- The LCD (liquid crystal display) features an intuitive visual interface.
- The LCD is backlit for easy visibility even in dark locations.

#### What is **Dems**?

**CHEMS** (Resonant structure and Electronic circuit Modeling System) is KORG's proprietary sound modeling technology which precisely reproduces the complex character and nature of both acoustic and electric instruments as well as electronic circuits in real world environments. **CHEMS** emulates a wide variety of sound generation characteristics including instrument bodies, speakers & cabinets, acoustic fields, microphones, vacuum tubes, transistors, etc.

### Printing conventions in this manual

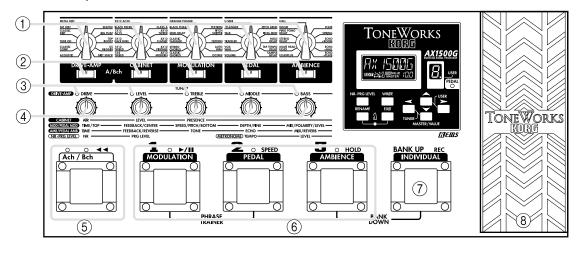
The 🖉 logo indicates operating cautions, and Tips indicates useful advice.

LCD screens printed in this manual are only for purposes of illustration, and may not match the actual display on your **AX1500G**.

### Important things to learn

### Front and rear panel

### Front panel



#### 1 Effect select knobs

These knobs select the effect model used in each effect block.

#### (2) Effect block select switches

#### (DRIVE-AMP, CABINET, MODULATION, PEDAL, AMBIENCE)

Press these switches to turn each effect block on/off or to edit it. The switch LED will be lit (on), dark (off), or blinking (edit).

#### ③ Value LEDs

These LEDs will light to indicate the value knobs that can be used for the selected effect model. From the left, they correspond to value knobs 1—5.

#### (4) Value knobs

When editing, rotate these knobs to modify the value of the parameter assigned to each knob. From the left, these are value knobs 1—5.

When not editing, these knobs control the parameters of the effect that is assigned to the DRIVE-AMP effect by the selected program. (Refer to p.12, "Quick editing for the DRIVE-AMP effect block.")

#### **(5)** Effect channel switch, channel LED

This changes the effect channel of the currently selected program. The LEDs located above the switch will light correspondingly (channel A is green, channel B is red).

#### 6 Program switches, program LEDs

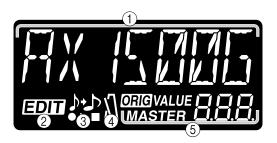
These switches select programs. The program LEDs (1, 2, 3) located above the switches will light correspondingly. In Individual mode, these switches turn each effect on/off individually.

#### (7) Bank switch

Each time this switch is pressed, the bank number will increase by one. The bank number will decrease by one if you simultaneously press the bank switch and program switch 3.

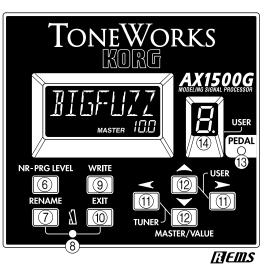
#### 8 Expression pedal

This pedal controls the effect that is selected from the PEDAL effect block.



#### (1) Name display

This shows the program name, effect name, or parameter name, as appropriate for each operation.



2 Edit icon

This will light if the selected program has been edited. It will blink if the program is currently being edited.

③ Phrase trainer icon

This will blink when you are in **Phrase Trainer mode**.

(4) Metronome icon

This will light when the metronome is on. It will blink while the metronome tempo or level is being adjusted.

#### **(5)** MASTER/VALUE display

This shows the master level and parameter values. When the parameter value matches the value that is written in the program, the **ORIG** (original icon) will light.

6 NR-PRG LEVEL switch

Use this switch to adjust the amount of noise reduction or the level of each program.

#### 7 RENAME switch

Use this switch to change the name of a program.

#### (8) Metronome LED

This LED will blink in time with the metronome tempo.

9 WRITE switch

Use this switch to save an edited program.

- (ii) EXIT switch From any function, you can press this to return to Play mode.
- (1) Cursor switches (  $\triangleleft$  ,  $\triangleright$  )

Use these switches to select the parameter that you wish to edit, or when modifying the name of a program.

#### (12) MASTER/VALUE switches (▲, ▼)

Use these switches to change the master level or the value of a parameter.

(13) Pedal LED

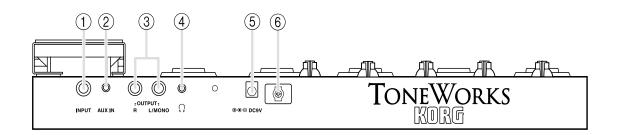
This indicates the on/off status and type of the pedal effect, and the recording status when the Sample & Play function is used.

#### (14) Bank number display

This shows the bank number of the selected program. When a user program is selected, a decimal point "." located at the lower right of the bank number will light.

#### 1. Introduction

#### **Rear panel**

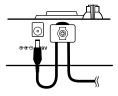


1 INPUT jack

Connect your guitar to this jack.

- ② AUX IN jack (stereo mini 1/8th inch connector) Connect the output (AUX OUT: analog) of your audio device to this jack.
- ③ OUTPUT jacks (L/MONO, R) Connect these jacks to your guitar amp or mixer etc. For mono connections, use the L/MONO jack.
- ④ ∩: PHONE jack (stereo mini)Connect a set of headphones to this jack.
- (5) DC 9V
  Connect the included AC adapter (⊕ ⊕ ⊕) here.
  When the adapter is connected, the power will automatically be turned on.
- 6 Cable hook

Fasten the cable of the AC adapter around this hook. When taking the cable off the hook, avoid pulling the cable with excessive force.



### The modes of the AX1500G

The AX1500G has three modes: Play mode, Individual mode, and Phrase Trainer mode.

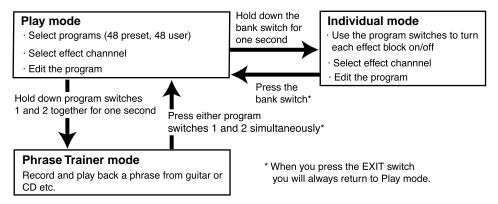
**Play mode** is the mode in which you can select a program and play it. When the power is first turned on, you will always be in this mode. You can select from a total of 96 programs that use high-quality effect models: 48 preset programs, and 48 user programs that allow you to freely edit the settings to create your own sounds. In addition, you can switch between effect channels A and B within each program.

With the factory settings, the user programs contain the same data as the preset programs.

**Individual mode** the mode in which you can use the foot switches (the program switches and expression pedal switch) to individually turn each effect block on/off as you play. In this mode you can switch between effect channels A and B, but cannot switch between programs. Use **Play mode** to select programs.

In **Phrase Trainer mode**, a phrase from an audio device (ie., CD or DAT) connected to the AUX IN jack or a guitar connected to the INPUT jack can be recorded and looped (played back repeatedly). You can practice by playing along with the repeating loop. As you can fix the pitch and slow down the playback speed, the phrase trainer mode is convenient for learning or practicing difficult phrases.

When you enter this mode, the MODULATION, PEDAL, and AMBIENCE effect blocks will automatically be turned off. In this mode it is not possible to switch programs or effect channels.

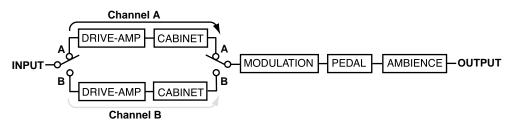


In **Play mode** and **Individual mode**, you can use the effect select knobs etc. to edit the effects, adjust the noise reduction and program level, and modify the program name etc.

### Effect channels of the AX1500G

The **AX1500G** provides an effect channel switch that lets you switch between two effect channels (A and B) within each program.

Each channel consists of a drive amp effect and a cabinet effect (see the diagram below).



This allows you to switch between rhythm and lead sounds within a single program as if you were changing the channel of a guitar amp, or to differentiate between sounds intended for direct output to a mixer using the cabinet effect or for output to your guitar amp.

# 2. Playing the AX1500G

### **Example connections**

- The power must be off when you make connections. Unintentional operation may damage your speakers, or cause malfunctions.
- 1. Connect your cables from the OUTPUT jacks of the AX1500G to your guitar amp or mixer etc. If you are using a mono connection, connect the L/ MONO jack. In order to take full advantage of the AX1500G's sound, we recommend that you use stereo connections.
- 2. If you wish to use headphones, plug them into the PHONE jack.

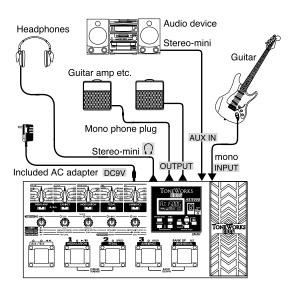
The output from the OUTPUT jacks will be turned off when headphones are plugged in.

- 3. Connect your guitar to the INPUT jack.
- 4. If you wish to use the AUX IN jack, connect an external audio device to it. Use the controls of the connected device to adjust the volume.
- 5. Connect the included AC adapter to the DC 9V jack, and plug the AC adapter into an AC outlet. When you plug it in, the power will come on automatically, and the name display will indicate the program name.



Wrap the AC adapter cable around the cable hook. When removing the cable from the hook, be careful not to pull the cable with excessive force.

6. When you have finished making connections, turn on the power of your guitar amp or mixer etc. Play your guitar, and check whether connections have been made correctly. Adjust the master level of the AX1500G and the gain or fader controls of your guitar amp or mixer to set an appropriate volume level.



# **Play mode**

When you turn on the power, the AX1500G will always enter **Play mode**, and will be set to the program and master level setting that were last selected when the power was turned off.

### Adjusting the master level

The MASTER/VALUE display will show the master level immediately after the power is turned on, a program is selected, and after the EXIT switch is pressed.

When the master level is shown, you can use the **MASTER/VALUE** switches  $(\blacktriangle, \triangledown)$  to adjust the master level.

### Selecting a program

You can select from 48 preset programs and 48 user programs.

User and preset programs are each organized into 16 banks, with three programs in each bank. The currently selected bank is shown by the bank

number display, and the program is shown by the program LEDs. To switch between user and preset programs, simultaneously press MASTER/VALUE switch ( $\blacktriangle$ ) and cursor switch ( $\blacktriangleright$ ). When a user program is selected, a decimal point "." located at the lower right of the bank number display will light.



User

### Preset program



#### To select a program in the same bank

Press a program switch 1-3 to select the desired program. The program LED of the selected program will light, and the name display will indicate the program name.

#### To select a program from a different bank

Press the bank switch to select the desired bank. (The bank number display will blink.) The banks will cycle in the order 0, 1, 2, ...9, A, b, C, d, E, F, 0, 1, 2...

- Each time you press the bank switch, the bank number display will increase by one.
- Each time you simultaneously press the bank ٠ switch and program switch 3, the bank number display will decrease by one.

When the desired bank number appears, press program switch 1,2 or 3 to select the desired program. (The bank number display will change from blinking to lit.)

### Checking the effect blocks used by a program

Not every program uses all of the effect blocks. When you select a program, the LED of each effect block that are used will light. The LEDs of effect blocks that are unused will be dark.

### Switching between effect channels

Each time you press the effect channel switch, effect channels A and B will alternate. When channel A is selected, the channel LED is lit green, and when channel B is selected, the LED is lit red.

### Effect channel hold

When you switch programs, this setting lets you specify whether the channel memorized in the program will be selected (OFF) or whether the status prior to switching programs will be maintained (On). The factory setting is OFF.

- Press and hold the EXIT switch, and press the effect channel switch so that the name display indicates "CH HOLD" and the MASTER/VALUE display indicates "OFF" or "On".
- 2. Continue holding the **EXIT** switch, and press the effect channel switch to change the setting between On and OFF.
- 3. Release the **EXIT** switch to return to **Play mode**.

### Bypass and mute Bypass

If you press and hold the program switch for 0.5 seconds, all effects will be bypassed. At this time, the program LED will blink, and the name display will indicate "**BYPASS**" for one second.

To defeat bypass, press the program switch whose LED is blinking, or press any other program switch.

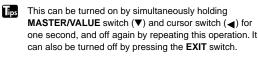


You can turn this on/off by simultaneously pressing **MASTER/VALUE** switch ( $\checkmark$ ) and cursor switch ( $\triangleleft$ ). You can also turn it off by pressing the **EXIT** switch.

#### Mute

If you press and hold the program switch for 1.5 seconds or longer, the input sound (ie., guitar) from the INPUT will be muted. At this time, the program LED will blink more rapidly, and the name display will indicate "**MUTE**" for one second.

To defeat mute, press the program switch whose LED is blinking, or press any other program switch.



### Auto tuner

When the **AX1500G** is in bypass or mute, the tuner will operate automatically. If you mute the **AX1500G** you will be able to tune your instrument without producing sound. This is used for on stage tuning.  Tune your guitar so that the desired note name appears in the bank number display. The decimal point "." at the lower right of the bank number display will light to indicate a sharp #.

Example display A = A $d = D^{\sharp}$ 

2. Fine-tune your guitar so that only the center of the five value LED's is lit (or so that only the center of the name display is shown).

Tuning discrepancy shown by the value LED's	
and the name display	

			lue LEI			Name display
Pitch is flat	÷¥	-¥-	發	0	0	_1_1
Pitch is sharp	0	0	發	¥	¥	l_
Correct tuning	0	0	₩	0	0	

#### Changing the calibration setting

If necessary, you can adjust the calibration in the range of 438—445 Hz. (440 Hz is "standard")

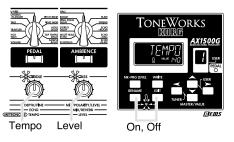
When the tuner is operating, use the **MASTER/VALUE** switches  $(\blacktriangle, \blacktriangledown)$  to adjust the setting. The calibration setting will appear in the MASTER/VALUE display.



When the power is turned off, the calibration setting you modify will be lost, and will automatically return to 440 Hz the next time the power is turned on.

### Metronome

- 1. When you simultaneously press the **RENAME** and **EXIT** switches, the metronome will start and the metronome icon will blink.
- 2. Use value knob 4 to adjust the tempo (range 40— 208: shown in the MASTER/VALUE display). At this time, the metronome LED will blink in time with the tempo.
- Use value knob 5 to adjust the volume of the metronome (range 0—10: shown in the MASTER/ VALUE display).
- 4. While the metronome is operating, simultaneously press the **RENAME** and **EXIT** switches to stop the metronome.



If you switch programs or edit while the metronome is operating, it will no longer be possible to adjust the tempo or level. To re-adjust the tempo or level, you must first stop the metronome, and then start it once again.

### 2. Playing the AX1500G = =



As an alternative to using value knobs 4 and 5, you can use the cursor switches  $(\blacktriangleleft, \blacktriangleright)$  to switch parameters, and use the MASTER/VALUE switches (▲, ▼) to adjust the parameter values.

lips While the metronome is operating, pressing the EXIT switch will stop the metronome and return to Play mode.

When the AX1500G is bypassed or muted, it will not be possible to adjust the tempo or level.

### Expression pedal

You can use the expression pedal for realtime control of eleven types of effects in the pedal effect block. If the program uses an effect in the pedal effect block, the LED of pedal effect block will light. The pedal LED will light yellow for VOLUME effect, green for a VOX WAH--RING MOD modulation-type effect, or red for a HOLD DELAY -- SAMPLE & PLAY

ambience-type effect. For the HOLD DELAY, TAP TEMPO DELAY, and SAMPLE & PLAY pedal effects, the operation is different than for other effects (refer to p.21).

#### Using the expression pedal as you play

- 1. In Play mode, select a program that uses the expression pedal.
- 2. Make sure that the pedal LED is lit. If it is not lit, press the expression pedal firmly once to make the pedal LED light (the pedal will be turned on).
- 3. Operate the expression pedal while playing your guitar. As you raise and lower the pedal, the output sound will change correspondingly.



If Volume is selected in the PEDAL effect block, it will not be possible to turn the expression pedal on/off. It will remain on (pedal LED lit yellow).



The on/off status of the expression pedal is not memorized by each program.

Do not apply excessive force to the expression pedal. Before operating the expression pedal, verify the amount of force that is required to make the pedal LED light and to apply the effect.

## Individual mode

In this mode you can press the program switches and expression pedal switch to turn modulation, pedal, and ambience effect blocks on/off individually. As in Play mode, you can switch the effect channel, and use operations such as metronome, editing, and program write.



In this mode it is not possible to switch programs or to select bypass or mute.

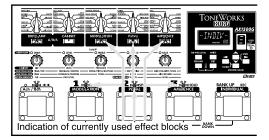
### Entering Individual mode

In Play mode press and hold the Bank switch for one second, and you will enter Individual mode. The name display will indicate "-INDIV-," and the bank number display will indicate "=."

When you enter Individual mode, the program LED's will indicate the on/off status of each effect block (synchronized with the effect block LED's). MODULATION corresponds to program switch (LED) 1, AMBIENCE to 2, PEDAL to 3.

Each time you press a program switch, it will turn on/ off. For the pedal effect, pressing the expression pedal firmly will turn it on/off (the switch is located under the pedal). However for some pedal effects such as SAMPLE & PLAY, the expression pedal is used in a special way, and cannot be turned off once the pedal has been turned on.

For some effects, it is not possible to simultaneously use the MODULATION and PEDAL effect blocks, or the PEDAL and AMBIENCE effect blocks. If you attempt to simultaneously turn on both of these effect blocks, the effect block that was turned on first will automatically be turned off.



#### **Exiting Individual mode**

To return to Play mode, press either the bank switch or the EXIT switch.

# Phrase Trainer mode

You can record a phrase from an audio device (ie., CD or DAT) connected to the AUX IN jack or from a guitar connected to the INPUT jack, and loop it (i.e., play it back repeatedly). Then you can practice a phrase on your guitar while listening to the repeating phrase. Since you can slow down the playback speed without affecting the pitch, this is a convenient way to learn or practice phrases from recordings that are difficult to play. In Phrase Trainer mode, the effect expression pedal will automatically control the volume of the guitar.

When you enter this mode, the MODULATION, PEDAL, and AMBIENCE effect blocks will automatically be turned off. (When you exit Phrase Trainer mode, the previous settings will be restored.)

In this mode it is not possible to use Bypass or Mute, or to switch programs or effect channels.

#### 1. Enter Phrase Trainer mode

From Play mode, simultaneously press and hold program switches 1 and 2 for one second. The MASTER/VALUE display will indicate the selected recording mode, and the Phrase Trainer icon will blink.

### 2. Select the recording mode

Use the cursor switches  $(\blacktriangleleft, \blacktriangleright)$  to select the input jack, and use the **MASTER/VALUE** switches ( $\blacktriangle$ ,  $\blacktriangledown$ ) to select the recording time.

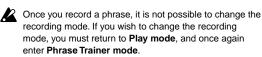
"AUX" AUX IN jack Input jack "GTR" INPUT jack

Recording time "SHT" maximum 8 seconds (high quality) "LNG" maximum 16 seconds (extended time)

The phrase will be recorded and played back monaurally.

### 3. Begin recording

Start the audio device that is connected to the AX1500G, and press the bank switch (REC) at the point where you wish to begin recording. The name display will indicate "REC" and the number of seconds of recording.



### 4. Stop recording

At the point where you wish to stop recording, press program switch 1 ( $\blacktriangleright$ /II) or the bank switch (REC). Recording will end, and the name display will indicate "PLAY." The recorded phrase will automatically begin playing repeatedly as a loop. Recording will also end automatically if you continue recording for the maximum time length of the selected recording mode.

Depending on the volume of the connected audio device, the sound may be distorted. If this occurs, adjust the volume on the audio device.



If the "AUX" input jack is used, the sound from the INPUT jack will be muted until recording ends.

#### To re-do the recording

Press program switch  $1 (\blacktriangleright / \blacksquare)$  to stop playback. Then continue with step "3. Begin recording" and step "4. Stop recording."

#### To erase the recorded phrase

The phrase will be erased when you press the EXIT switch to return to Play mode. You can also record a new phrase to overwrite the previously-recorded phrase.

### 5. Stop

When you press program switch 1 ( $\triangleright$ / $\blacksquare$ ), playback will stop. Press program switch 1 (▶/Ⅲ) once again, and playback will resume from where you stopped.

- If effect channel switch (◀◀) is pressed while stopped, you will return to the beginning of the recorded phrase.
- By pressing the cursor switches, you can playback in reverse ( $\blacktriangleleft$ ) or forward ( $\triangleright$ ) as long as you hold down the switch.

### 6. Playback

During recording or while stopped, press program switch  $1 (\blacktriangleright / \blacksquare)$  to playback the recorded phrase as a repeating loop.

By pressing program switch 2 (SPEED) or the MAS-**TER/VALUE** switches ( $\blacktriangle$ ,  $\triangledown$ ), you can slow down the playback speed without affecting the pitch.

- Each time you press program switch 2 (SPEED), the playback speed will cycle through settings of 100%, 75%, 50%, 25%...
- By pressing the MASTER/VALUE switches (▲, ▼), the speed can be adjusted in 5% steps; 100%, 95%, 90%, ... 25%.

During playback, you can press cursor switch (▶) to playback at double speed as long as you continue pressing the switch.

If you press cursor switch  $(\blacktriangleleft)$ , the recording will play back in reverse as long as you continue pressing the switch. If you press effect channel switch ( $\blacktriangleleft$ ), the recording will rewind as long as you continue pressing the switch.

### 7. Hold

By pressing program switch 3 (HOLD), you can hold the sound that was playing at the moment the switch was pressed. When you press the switch once again, hold will be turned off. By pressing a cursor switch while the sound is being held, you can playback backward  $(\blacktriangleleft)$  or forward (▶) as long as you continue holding the switch. If you press effect channel switch ( $\blacktriangleleft$ ), you will go back one second, cancel Hold, and begin playback.

### Exiting Phrase Trainer mode

To return to Play mode, you can either press program switches 1 and 2 simultaneously, or press the EXIT switch.



When you exit Phrase Trainer mode or turn off the power, the recorded phrase will be erased.

# 3. Editing

In Play mode and Individual mode, you can edit each effect, set noise reduction and program levels, and modify the program name.

During editing, the edit icon in the display will blink.



The parameter assigned to the knob you moved Value of the parameter

In Phrase Trainer mode, it is possible to edit the DRIVE-AMP and CABINET effect blocks, but it is not possible to perform editing operations that use the name display, MASTER/VALUE display, the cursor switches or the MASTER/VALUE switches. In addition, it is not possible to switch programs or effect channels.

# Editing effects

Rotate the effect select knob of the effect block that you wish to edit, or press the corresponding effect block select switch. The effect block LED will begin blinking, indicating that it has been selected for editing. Each program has two channels of settings (A and B) for the drive amp and cabinet effects. Press the effect channel switch to select the channel you wish to edit. Use the effect select knob, effect block select switch, and value knobs to edit the settings.



If you wish to save the edited effect, perform the "Program write" operation. If you fail to do this, the effect program will revert to its original settings when you turn off the power or select a different program.

### Editing example

As an example, we will explain how to select TUBE OD as the drive amp effect for channel B.

- 1. Press the effect channel switch to select channel B (the channel LED will light red).
- 2. If the name display indicated "**TUBE OD**" when you pressed the effect block select switch(DRIVE-AMP), simply continue. If not, turn the DRIVE-AMP effect select knob to the TUBE OD position. If the effect select knob was already located at TUBE OD, first select a different effect model, and then turn the knob back to **TUBE OD**.
- 3. The effect block LED will begin blinking, indicating that it has been selected for editing. (The name display will indicate the model name as "TUBE **OD**.") If you selected a programmed effect, the "ORIG" icon will light.
- 4. The five value LED's will light, and the corresponding value knobs will be assigned to DRIVE, LEVEL, TREBLE, MIDDLE, and BASS respectively, and will function as knobs that adjust the value of each parameter. (Refer to p.16, "Effect parameters.")

5. Rotate the knobs and the sound will change. The name display will indicate the name of the parameter assigned to that knob, and the MAS-TER/VALUE display will indicate the value. At this time, the "ORIG" icon will light when the position of the knob matches the original value - i.e., the value before you began editing.

lips

Instead of the five value knobs, you can also use the cursor switches  $(\blacktriangleleft, \blacktriangleright)$  to select parameters, and use the MASTER/VALUE switches (▲, ▼) to adjust the value of the parameter currently shown in the name display.

If you do not wish to use the DRIVE-AMP effect block, press the DRIVE-AMP effect block select switch until the LED goes dark. The DRIVE-AMP effect block is now bypassed, and the name display will indicate "-OFF-."

The cabinet effect can be edited in the same way as the drive amp effect. Since the modulation, pedal, and ambience effects do not have separate effect channels, begin from step 2 of "Editing example."



For some effects, it is not possible to simultaneously use the MODULATION and PEDAL effect blocks, or the PEDAL and AMBIENCE effect blocks. If you attempt to turn on both effect blocks, the block that had been turned on first will automatically be turned off.

### Quick Editing for the DRIVE-AMP effect block

In the default state of each mode, the DRIVE-AMP effect block parameters used by the selected program are assigned to the value knobs (except when the effect is off).

When you rotate each value knob, the AX1500G will enter edit mode (the effect program switch LED and the edit icon will blink). The name display will show the parameter name, the MASTER/VALUE display will show the parameter value, and the sound will change.



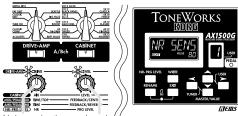
If you wish to change an effect that is in use, use the effect select knobs to select the desired effect.



It is not possible to edit when other functions are assigned to the value knobs, when the AX1500G is bypassed, muted, or recording in Phrase Trainer mode.

## Setting the noise reduction and program levels

- 1. If you are in Play mode, press the NR-PRG LEVEL switch.
- 2. By rotating value knobs 1 or 2, or pressing the NR-PRG LEVEL switch, you can access the screen displays for adjusting the noise reduction and setting the level for each program.
- 3. To adjust the amount of noise reduction, use value knob 1 (range OFF...10: shown in the MASTER/ VALUE display).
- 4. To adjust the level of each program, use value knob 2 (range 0...10: shown in the MASTER/VALUE display).

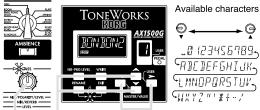


Noise reduction Level

- Instead of value knobs 1 and 2, you can also use the cursor switches  $(\blacktriangleleft, \blacktriangleright)$  to select a parameter and use the MASTER/VALUE switches to adjust the value of the parameter.
- Depending on the guitar that you use, raising the noise reduction setting too high may cause the sound to be cut off at low levels.
- The volume of each program will change depending on the guitar that you use. Adjust the program level for your quitar.
- If you wish to save the noise reduction and program level settings that you edited, you must perform the "Program write" operation. If you turn off the power or select a different program without writing the program, the program you modified will revert to its previous settings.

# Modifying program names

Press the **RENAME** switch and specify the program name (maximum 7 characters). Use the cursor switches  $(\blacktriangleleft, \triangleright)$  to select the character that you wish to change (the character will blink). Then use value knob 5 to select the desired character. The available characters are shown below.



- Select characters
- Move between character positions

You can also use the MASTER/VALUE switches to change the character.



If you wish to save the modified program name, you must perform the "Program write" operation. If you turn off the power or select a different program without writing the program, the program name you edited will revert to its previous setting.

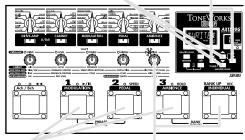
## Writing programs

Here's how to write an edited program.

- 1. Press the WRITE switch, and the name display will indicate "\*WRITE\*." The bank number display and the program LED will blink.
- 2. Use the **MASTER/VALUE** switches  $(\blacktriangle, \nabla)$  to select the writing destination bank, and use the cursor switches  $(\blacktriangleleft, \blacktriangleright)$  to select the writing destination program.
- 3. Press the WRITE switch once again, and the display will read "COMPLT" to indicate that the program has been written. You will then return to Play mode.
- You can also use value knob 5 or the bank switches to select the bank, and the program switches to select the program.

If you decide not to write, press the EXIT switch to cancel the Write operation.

> Select the bank Select the program



Select the program

- Select the bank
- If you write an edited program to a different program number, the program that was overwritten will be lost.
- It is not possible to write to a preset program.

Appendices

# 4. Appendices

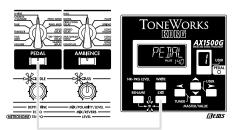
# Adjusting the expression pedal (Calibration)

If you find the expression pedal difficult to use, perform this procedure so that the pedal will function optimally. For example if the effect does not reach maximum when the pedal is advanced all the way forward, or does not reach minimum when the pedal is returned all the way back, use the following procedure to make the appropriate adjustments.



When making adjustments, use your hand to move the pedal. Accurate calibration may not be possible if you use your foot to operate the pedal.

1. Turn on the power while simultaneously holding down the EXIT switch and the PEDAL effect block select switch. The name display will show "PEDAL" for approximately one second, and will then indicate "MIN."

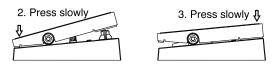


Turn on the power while simultaneously holding down

2. Slowly return the pedal to the full back position. When it stops, release your hand and press the WRITE switch. The name display will change from "MIN" to "MAX."

If you decide to halt the adjustment procedure, press the EXIT switch. The power-on display will appear, and you will enter Play mode.

3. Slowly advance the pedal. When it stops, release your hand and press the WRITE switch.



The LCD display will indicate "COMPLT" for approximately one second. Then the power-on display will appear, and you will enter Play mode.

After the adjustment procedure has been completed, verify the operation of the pedal.

Select an effect that will make it easy to verify the adjustment. For example, set the pedal effect block to the VOLUME effect, set the value to 0, and check the MIN level when the pedal is returned all the way back. If you make a mistake during the calibration procedure, the LCD will indicate "ERROR," and you will return to the screen before the adjustment (the "MIN" display). If the "ERROR" display appears for repeated attempts, a malfunction may have occurred. In this case, please contact your dealer.

# Restoring the user programs to the factory settings (Reload)

1. Turn on the power while simultaneously holding down the EXIT switch and the bank switch. The name display will indicate "RELOAD?"



If you press the EXIT switch, the reload operation will not occur; the power-on display will appear, and you will enter Play mode.

2. Press the WRITE switch. The name display will change to "RELOAD," and the reload operation will begin. When the reload operation is completed, the display will indicate "COMPLT" for approximately one second. Then the power-on display will appear, and you will enter Play mode.

Never turn off the power during the reload operation.



WARNING: When you perform the reload operation, all user programs will be rewritten. Master level, metronome, and input level settings will also be initialized.

# Troubleshooting

If you suspect a malfunction, please check the following points first. If this does not resolve the problem, contact a nearby dealer.

#### 1. Power does not turn on

- Is the AC adapter plugged into an AC outlet? (@p.8)
- Is the included AC adapter connected? (@p.6, 8)

#### 2. No sound

- Are your guitar, amp, and headphones connected to the correct jack? (@p.6, 8)
- Is the power of your amp turned on, and is it set accordingly?
- Is one of your cables broken?
- Is the master level of the AX1500G set to "0" or to a low value? (@p.8)
- Is the program level of the **AX1500G** set to "**0**" or to a low value? (@p.13)
- Is the LEVEL of the DRIVE-AMP effect set to "**0**" or to a low value? (@p.12)
- Is the volume of your guitar turned down?
- Is the AX1500G muted?
- If **VOLUME** is selected for the PEDAL effect, has the pedal been returned to the full back position?

#### 3. Effects are not applied

- Is the AX1500G bypassed? (@p.9)
- Are the effects used by the program turned on? (@p.4, 8)

#### 4. Metronome does not function

- Are you in **Play mode** or in **Individual mode**? The metronome will not function in **Phrase Trainer mode**.
- Is the metronome output level set to "**0**"? (\$p.9)

#### 5. Pedal does not function

- Have you selected a program that uses an effect in the PEDAL effect block? (@p.8)
- Is the pedal LED lit? (@p.10)
- Try adjusting (calibrating) the expression pedal. (@p.14)
- 6. Cannot write (the name display indicates "ER-ROR")
  - Reload the preset programs. (@p.14)

### Main specifications

- Number of effects: 56 types (maximum number of effects usable simultaneously: 8)
- Number of programs: 96 (48 preset, 48 user)
- Inputs: Guitar input (mono phone jack) AUX IN (stereo mini jack)
- Outputs: Output x 2 (mono phone jack) Headphones (stereo mini jack)
- Tuner section

Detection range: 27.5 Hz — 2,093 Hz (A0—C7) Calibration: A=438—445 Hz

- Metronome section Tempo: bpm= 40-208
- Power supply: DC9V (included AC adapter ⊕ ● ●)
- Dimensions: 420 (W) x 187.7 (D) x 65.4 (H) mm 16.5 (W) x 7.4 (D) x 2.6 (H) inches
- Weight: 2.4kg (5.3 lbs)
- Included items: Owner's manual, AC adapter
- \* Specifications and appearance are subject to change with out notice for improvement.

## Effect parameters DRIVE-AMP effects block

These effect models consist of effects plus a three-band equalizer.

DRIVE-AMP	Knob 1	Knob 2	Knob 3	Knob 4	Knob 5
	DRIVE	LEVEL	TREBLE	MIDDLE	BASS
ACOUSTIC	110	010	010	010	010
CLASSIC COMP	OFF10	010	010	010	010
TUBE OD	110	010	010	010	010
CLASSIC DIST	110	010	010	010	010
FAT DIST	110	010	010	010	010
METAL DIST	110	010	010	010	010
SEATTLE	110	010	010	010	010
BIG FUZZ	110	010	010	010	010
TOP BOOST	110	010	010	010	010
US HI-GAIN	110	010	010	010	010
BRIT STACK	110	010	010	010	010

#### Acoustic simulator

This is an effect model that converts the sound of an electric guitar to that of an acoustic guitar.

#### ACOUSTIC "ACOUSTIC"

A more realistic simulation of an acoustic guitar will be produced if you use the neck pickup. A compressor with adjustable sensitivity is built-in.

# If the sound distorts, slightly decrease the LEVEL, TREBLE, MIDDLE, and BASS.

Knob 1 DRIVE	Adjusts compressor sensitivity.
Knob 2 LEVEL	Adjusts output level.
Knob 3 TREBLE	Adjusts treble (high-frequency range).
Knob 4 MIDDLE	Adjusts mid (mid-frequency range).
Knob 5 BASS	Adjusts bass (low-frequency range).

#### Compressor

A compressor boosts quiet sounds and decreases loud sounds to even out differences in volume, in order to make the dynamics more consistent.

#### CLASSIC COMP "CL COMP"

This compressor makes your playing dynamics more consistent, and produces a smooth sustain. If you turn the **DRIVE "OFF**," the compressor will be defeated, and you can use this as a tone controller.

# If the sound distorts, slightly decrease the LEVEL, TREBLE, MIDDLE, and BASS.

Knob 1 DRIVE	Adjusts sensitivity.
Knob 2 LEVEL	Adjusts output level.
Knob 3 TREBLE	Adjusts treble (high-frequency range).
Knob 4 MIDDLE	Adjusts mid (mid-frequency range).
Knob 5 BASS	Adjusts bass (low-frequency range).

#### Overdrive, Distortion, Fuzz, Amp

The effect model offers a wide variety of classic sounds.

#### TUBE OD "TUBE OD"

This model simulates the overdriven sound of a popular tube overdrive pedal from the 70's that responds well to the nuances of your picking.

CLASSIC DIST "CL DIST"

This model simulates a poular distortion pedal from the 70's.

#### FAT DIST "FATDIST"

This model simulates a popular fat sounding disortion pedal from the 80's.

#### METAL DIST "MTLDIST"

This model simulates the metallic distortion of the 90's.

SEATTLE "SEATTLE"

This model is ideal for grunge rock sounds.

**BIG FUZZ** "BIGFUZZ" The most popular fuzz of the 60's.

### TOP BOOST "TOP BST"

This model simulates the sound of an AC30 overdriven by a popular 80's OD pedal.

#### US HI-GAIN "US HI-G"

This model simulates the distortion typical of a high-gain amp made in the USA.

#### BRIT STACK "BRTSTK"

This model simulates the distortion typical of a British amp stack.

Knob 1 DRIVE	Adjusts	amount of distortion.
Knob 2 LEVEL	_ Adjusts	s output level.
Knob 3 TREB	LE Adjusts	treble (high-frequency range).
Knob 4 MIDDL	E Adjusts	mid (mid-frequency range).
Knob 5 BASS	Adjusts	bass (low-frequency range).

### CABINET effect block

The shape of the cabinet and the type and number of speakers are very important elements in determining the tonal character of a guitar amp.

The CABINET effect block provides models that faithfully simulate the cabinet and speaker characteristics of a variety of guitar amps, from vintage to modern.

Although these models are especially effective when you are plugged in to a mixer etc. via a direct line connection, they are also effective when you are using a guitar amp.

CABINET	Knob 1	Knob 2	Knob 3	Knob 4	Knob 5
	AIR	LEVEL	PRESENCE		
1x8 TWEED	AP, 0.39.7, Ln	110	010		
1x12 TWEED	AP, 0.39.7, Ln	110	010		
1x12 BLACK PANEL	AP, 0.39.7, Ln	110	010		
1x12 AC15	AP, 0.39.7, Ln	110	010		
2x12 BLACK PANEL	AP, 0.39.7, Ln	110	010		
2x12 AC30	AP, 0.39.7, Ln	110	010		
2x12 CLASS A	AP, 0.39.7, Ln	110	010		
4x10 TWEED	AP, 0.39.7, Ln	110	010		
4x12 CLASSIC	AP, 0.39.7, Ln	110	010		
4x12 VINTAGE	AP, 0.39.7, Ln	110	010		
4x12 MODERN	AP, 0.39.7, Ln	110	010		

1x8 TWEED "1-8 TWD" This model simulates an open back cabinet with one 8-inch speaker.

1x12 TWEED "1-12 TWD"

This model simulates an open back cabinet with one 12-inch speaker typically used for blues.

#### 1x12 BLACK PANEL "1-12 BLK"

This model simulates an American open back cabinet with one 12-inch speaker and a bright tonal character. "1-12AC15"

#### 1x12 AC15

This model simulates a Vox open back cabinet with one 12-inch "Blue" speaker.

#### 2x12 BLACK PANEL "2-12 BLK"

This model simulates an American open back cabinet with two 12-inch speakers.

#### 2x12 AC30 "2-12AC30"

This model simulates a Vox open back cabinet with two 12inch "Blue" speakers.

2x12 CLASS A "2-12 CLA"

This model simulates a modern open back cabinet with two 12inch speakers.

4x10 TWEED "4-10 TWD"

This simulates an open back cabinet with four 10-inch speakers.

4x12 CLASSIC "4-12 CLS"

This simulates a closed back cabinet with four 25W 12-inch speakers.

4x12 VINTAGE "4-12 VIN" This simulates a closed back cabinet with four 30W 12-inch speakers.

4x12 MODERN "4-12 MDN" This simulates a closed back cabinet with four 75W 12-inch speakers.

Knob 1 AIR

This simulates the resonance of the cabinet, and the comb filtering effect produced by interference between the speakers.

Decreasing this value will produce a sound that is more suitable for connection to a guitar amp. Increasing this value will produce a sound that is more suitable for direct-line connection.

Knob 2 LEVEL Adjusts output level.

Knob 3 PRESENCE Adjusts tone of the high-frequency range.



If the sound distorts, slightly lower the LEVEL and PRESENCE.

### **MODULATION effect block**

MODULATION	Knob 1	Knob 2	Knob 3	Knob 4	Knob 5
	TIME	FEEDBACK	SPEED/PITCH	DEPTH/FINE	MIX/POLARITY
CLASSIC CHORUS	—	—	0.110[Hz]	010	1, 2
STEREO CHORUS	110		0.110[Hz]	010	
CLASSIC FLANGER	110	010	0.110[Hz]	010	
MOD DELAY	0.5900[ms]	010	0.110[Hz]	010	010
BLACK PHASER		010	0.110[Hz]	_	
ORANGE PHASER		010	0.110[Hz]	_	
TEXTREM			110[Hz]	010	
PITCH SHIFTER	0900[ms]	010	-2424[x100 CENT]	-1515[CENT]	010
FILTRON	110	010		010	up, dn
AUTO WAH	110			010	up, dn
OCTAVE				010	010

#### Chorus, Flanger

Chorus and flanger are effects that delay the sound slightly to modulate the pitch, and combine the modulated sound with the original to produce a sensation of modulated spaciousness.

#### CLASSIC CHORUS "CL CHOR"

This simulates the very first vintage chorus unit. For the best results, use it in stereo .

Knob 3 SPEED	Adjusts speed.
Knob 4 DEPTH	Adjusts depth.
Knob 5 MIX	1: Use for mono output.
	2: Use for stereo output.

#### STEREO CHORUS "ST CHOR"

This simulates a vintage stereo chorus unit that inverts the phase of the effect sound between left and right channels to make the sound more spacious. Adjusting the three knobs can produce a wide variety of results.

Knob 1 TIME	Adjusts delay time.
Knob 2 ——	
Knob 3 SPEED	Adjusts speed.
Knob 4 DEPTH	Adjusts depth. If this knob is placed in the
	"10" position, the TIME knob will have no
	effect.

#### CLASSIC FLANGER "CL FLAN"

This is a vintage flanger with rich tone. The settings can also be adjusted to produce chorus or vibrato-like effects.

Knob 1 TIME	Adjusts the delay time. This controls the
	bandwidth over which the effect is applied.
	As this setting approaches 0, modulation
	will occur at a higher pitch.
Knob 2 FEEDBACK	Adjusts the strength of the tonal character.
	To produce a jet airplane-like sound,
	increase to desired level.
Knob 3 SPEED	Adjusts speed.
Knob 4 DEPTH	Adjusts depth. If this knob is placed in the
	"10" position, the TIME knob will have no
	effect.

#### MOD DELAY "MOD DLY"

This effect modulates the delay time to produce chorus and flanger-like effects. Adding a small amount of depth with longer delay settings gives you a very effective modulated echo sound.

Knob 1 TIME	Adjusts delay time.
Knob 2 FEEDBACK	Adjusts feedback.
Knob 3 SPEED	Adjusts speed.
Knob 4 DEPTH	Adjusts depth.
Knob 5 MIX	Adjust the mix amount of effect sound.

#### Phaser

This effect cyclically modifies the phase shift of the sound, and mixes the phase-shifted sound with the original sound to produce modulation. The phased sound will become milder as the number of stages is increased.

**BLACK PHASER** "BL PHAS" This is a popular four-stage vintage phaser.

**ORANGE PHASER** "OR PHAS" This is a ten-stage vintage phaser that produces a milder effect.

Knob 2 FEEDBACK Adjusts the degree of character. Knob 3 SPEED Adjusts the speed of modulation.

#### Tremolo

This modulates the volume to add depth to the sound.

TEXTREM "TEXTREM" This effect model simulates the tremolo built into a guitar amp.

Knob 3 SPEED	Adjusts speed.
Knob 4 DEPTH	Adjusts depth.

#### Pitch shifter

This effect modifies the pitch.

#### PITCH SHIFTER "PITCH"

change.	This pitch shifter can be adjusted over a $+/-2$ octave range.			
(delay repeats). Knob 3 PITCH Adjusts amount of pitch change. Knob 4 FINE Fine adjustment for the amount of pitch change.	Knob 1	TIME	Adjusts delay time.	
Knob 3 PITCHAdjusts amount of pitch change.Knob 4 FINEFine adjustment for the amount of pitch change.	Knob 2	FEEDBACK	Adjusts amount of feedback	
Knob 4 FINE Fine adjustment for the amount of pitcl change.			(delay repeats).	
change.	Knob 3	PITCH	Adjusts amount of pitch change.	
5	Knob 4	FINE	Fine adjustment for the amount of pitch	
Knob 5 MIX Adjusts the mix amount of effect sound			change.	
	Knob 5	MIX	Adjusts the mix amount of effect sound.	

#### Auto wah

This is an auto-wah filter that automatically opens and closes according to the attack with which you play your guitar. The effect will vary depending on the guitars volume setting.

<b>FILTRON</b> "This is a low-pass fil	FILTRON" Iter type auto-wah.
Knob 1 TIME	Adjusts the speed at which the wah will rise in response to your picking.
Knob 2 FEEDBACK Knob 3 ———	Adjusts the peak of the wah sound.
Knob 4 DEPTH	Adjusts the sensitivity with which the wah will respond to your picking.
Knob 5 POLARITY	Specifies the direction in which the wah will operate.

#### AUTO WAH "AUTOWAH"

This is a band-pass filter type auto-wah that is equivalent to a pedal wah. It is placed before the DRIVE-AMP effect block.

Knob 1 TIME	Adjusts the speed at which the wah will
	rise in response to your picking.
Knob 2	
Knob 3 ——	
Knob 4 DEPTH	Adjusts the sensitivity with which the wah
	will respond to your picking.
Knob 5 POLARITY	Specifies the direction in which the wah
	will operate.

#### Octave

This generates a pitch one octave lower than the original sound, and mixes it with the original sound to add a sense of depth and low end.

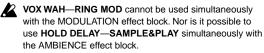


This effect may not operate correctly if two or more strings are played simultaneously, or when low-pitched strings are played.

OCTAVE	"OCTAVE"
Knob 4 DEPTH	Adjusts the amount of the ultra-low pitch
	(one octave below).
Knob 5 MIX	Adjusts the amount of the original sound.

### PEDAL effect block

These effect models let you use the expression pedal to control the effect in realtime. They include a volume pedal, modulationtype effects such as VOX WAH-RING MOD, and ambiencetype effects such as HOLD DELAY—SAMPLE&PLAY.



PEDAL	Knob 1	Knob 2	Knob 3	Knob 4	Knob 5
		FEEDBACK/	BOTTOM/SPEED/		LEVEL/MIX/
	TOP/TIME	CENTER/REVERSE	PITCH/TONE	DEPTH/FINE	POLARITY
VOLUME	—	—	—	—	010
VOX WAH		—			
TRAVELER		010			010
TALK	A, E, I, O, U	A, E, I, O, U	A, E, I, O, U		
CHORUS/FLANGER	110	010	0.110	010	
U-VIBE				010	1, 2
PITCH BEND	0900[ms]	010	-2424[x100 CENT]	-1515[CENT]	010
			110		
HOLD DELAY	0[ms]3[SEC]	010	110		010
TAP DELAY	0[ms]3[SEC]	010	110		010
SAMPLE&PLAY	0.58[SEC]	OFF, 1, 28, LP1, LP2			010

#### Volume

This is a volume pedal.

#### VOLUME "VOLUME"

Knob 5 LEVEL Adjust the minimum level for when the pedal is in the full back position.

#### Pedal wah, Traveler, Talking pedal

These are wah (filter) effects that use the pedal to control the frequency response.



If you use this effect in a program where the MODULA-TION effect block is turned on, the MODULATION effect block will automatically be turned off.

#### VOX WAH "WAH"

This simulates a vintage wah pedal. There are no adjustable parameters. It is placed ahead of the DRIVE-AMP effect block.

#### TRAVELER "TRAVFI"

This is a low-pass filter type wah modeled after a vintage Korg effect pedal.

Knob 1 -

Knob 2 FEEDBACK Adjusts the peak amount of the filter.

- Knob 3 -
- Knob 4 —

Knob 5 LEVEL Adjusts the output level.

#### TALK "TAI K"

This adds vocal type effects to your guitar.

Knob 1 TOP	Select the vowel sound produced when	
	the pedal is fully forward.	
Knob 2 CENTER	Select the vowel sound produced when	
	the pedal is in the halfway position.	
Knob 3 BOTTOM	Select the vowel sound produced when	
	the pedal is fully backward.	
* Vowel sounds — A, E, I, O, U		

#### Chorus/Flanger

This is a chorus/flanger effect that uses the pedal to control the mix amount of the effect.

If you use this effect in a program where the MODULA-TION effect block is on, the MODULATION effect block will automatically be turned off.

#### CHORUS/FLANGER "CH/FLAN"

Adjusts delay time.
Adjusts amount of feedback
(delay repeats).
Adjusts pitch modulation speed.
Adjusts pitch modulation depth.

#### **U-Vibe**

This simulates a vintage vibrato/rotary speaker simulator.



If you use this effect in a program where the MODULA-TION effect block is on, the MODULATION effect block will automatically be turned off.

#### U-VIBE "U-VIBE"

Knob 4 DEPTH

Knob 5 MODE

- 0: Mixes the original sound with the effected sound (Chorus mode)
- 1: Output only the effect sound (Vibrato mode)

Adjusts depth of the effect.

#### Pitch bend

This is a Pitch shifter that uses the pedal to control the pitch.



If you use this effect in a program where the MODULA-TION effect block is on, the MODULATION effect block will automatically be turned off.

	PITCH B	END "F	P BEND"
	Knob 1	TIME	Adjusts the delay time.
	Knob 2	FEEDBACK	Adjusts the amount of feedback
			(delay repeats).
Knob 3 PITCH		PITCH	Adjusts the amount of pitch change.
	Knob 4	FINE	Make fine adjustments to the amount of
			pitch change.
	Knob 5	MIX	Adjusts the mix amount of the effect. With
			a setting of 10, only the effect sound will
			be heard in the output.

#### Ring modulator

This effect multiplies the original sound with a sine wave to produce bell-like effects. The cleanest results will be produced if you use the neck pickup of your guitar, turn down the tone, and pluck the string near the twelfth fret.



If you use this effect in a program where the MODULA-TION effect block is on, the MODULATION effect block will automatically be turned off.

#### RING MOD

This is a ring modulator that lets you use the pedal to control the frequency.

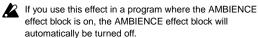
"RINGMOD"

Knob 3 PITCH

Adjusts the tone when the pedal is advanced.

#### Delay

These effects mix a time-delayed sound with the original sound to add depth and spaciousness to the sound.



#### HOLD DELAY "HOLDDLY"

This will normally function as a delay, but when the pedal is advanced all the way forward to press the switch, the pedal LED will blink and the sound will be held (the delay sound will continue to be heard). Since you can use the pedal to control the input level to the delay, you can easily produce special effects such as sound-on-sound. In Individual mode, you can also hold by pressing program switch 2.

#### TAP DELAY "TAP DLY"

When you advance the pedal forward and press the switch twice, the tap tempo delay function will apply a delay at the corresponding tempo. The pedal LED will temporarily go dark the instant that the switch is pressed. The depth to which the pedal is pressed will control the input level to the delay. In Individual mode, you can also press program switch 2 twice to specify the tempo.

Knob 1 TIME	Adjusts the delay time.
Knob 2 FEEDBACK	Adjusts the feedback amount
	(delay repeats).
Knob 3 TONE	Adjusts the tone of the effect sound.
Knob 4 ——	
Knob 5 MIX	Adjusts the mix amount of the effect
	sound.

#### Sample and play

If you use this effect in a program where the AMBIENCE effect block is on, the AMBIENCE effect block will automatically be turned off.

#### SAMPLE&PLAY "S+PLAY"

This allows approximately 8 seconds of recording. By using the reverse setting, you can produce special "scratch" effects.

- 1. Press the expression pedal all the way forward to enter record-ready mode. The pedal LED will blink. In Individual mode, press program switch 2 to enter record-ready mode.
- 2. Play a phrase etc. on your guitar. Recording will begin automatically at the moment you start playing and the pedal LED will begin blinking faster.
- 3. When the recording time specified by TIME has elapsed, recording will end and the pedal LED will not be lit. Also, you can stop recording before the specified recording time has elapsed by pressing the pedal all the way forward (i.e., pressing the pedal switch). To re-do the recording, repeat the procedure from step 1.

- During recording, you can also return the pedal and then press it again to stop recording and begin playback.
- 4. Operate the expression pedal. When you advance the pedal, the recorded phrase will playback. If you have set REVERSE to A-1...A-4 or b-1...b-4, returning the pedal will cause the sound to playback in reverse at the specified speed.

If you set REVERSE to OFF, the sound will only playback forward.

With a setting of LP1 or LP2, advancing the pedal forward will playback the sound as a repeating loop. When you return the pedal back and then advance the pedal again, playback will begin from the beginning.

- Recording will not begin unless you play your guitar louder than the threshold.
  - The recording sound will be erased when you enter Phrase Trainer mode or when you turn off the power.

Knob 1 TIME Specifies the sample time (recording time).

Knob 2 REVERSE OFF: When you press the pedal, the sound will playback to the end and then stop

> LP1: Press the pedal forward to playback as a loop, and return the pedal

backward to stop.

LP2: Press the pedal forward to playback

as a loop, and return the pedal backward to playback to the end and

then stop.

- A-1...A-4: Press the pedal forward to playback, and return the pedal backward to playback in reverse.
- b-1...b-4: Press the pedal forward to playback from the beginning, and return the pedal backward to playback in reverse from the end.

Knob 3 -Knob 4

Knob 5 MIX

Adjusts the output level of the sampled sound

### AMBIENCE effect block

These are reverberation-type effect models such as delay, reverb, and echo.

AMBIENCE	Knob 1	Knob 2	Knob 3	Knob 4	Knob 5
_	TIME	FEEDBACK	TONE	ECHO	MIX/REVERB
ECHO PLUS	60[mS]3[SEC]	010	110	_	010
MULTI HEAD ECHO	180[mS]3[SEC]	010	110	1, 2, 3, 4, 5	010
STEREO DELAY	0[mS]3[SEC]	010	110		010
PING PONG DELAY	0[mS]3[SEC]	010	110	—	010
ROOM	110		110		010
HALL	110		110		010
PLATE	110		110		010
SPRING	110		110		010
ECHO+ROOM	0[mS]2[SEC]	010	110	010	010
ECHO+HALL	0[mS]2[SEC]	010	110	010	010
ECHO+PLATE	0[mS]2[SEC]	010	110	010	010

#### Tape echo simulator

This effect model simulates the characteristic tape echo effect produced by recording sound on analog magnetic tape and playing it back from a playback head located at a slight distance from the recording head.

#### ECHO PLUS "ECHO+"

This simulates a tape echo. Pitch discrepancies produced by unevenness in the rotational speed, and the distortion and loss of audio quality due to the magnetic tape are also simulated.

Knob 1 TIME Adjusts the delay time.

Knob 2 FEEDBACK	Adjusts the feedback amount (delay repeats).
Knob 3 TONE	Adjusts the tonal quality of the echo.
Knob 4	
Knob 5 MIX	Adjusts the mix amount of the echo.

#### MULTI HEAD ECHO "MH ECHO"

This simulates a tape echo with four playback heads. The distortion and loss of audio quality due to the magnetic tape are also simulated

Knob 1 TIME	Adjusts the delay time.
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Knob 2 FEEDBACK Adjusts the feedback amount (delay repeats).
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Knob 3 TONE	Adjusts the tonal quality of the echo.
	rajusts the tonal quality of the cono.

- Knob 4 ECHO 1: Conventional echo.
  - 2: , The delayed sound produces a rhythm of "ta-ta-ta (rest)."
  - 3: The delayed sound produces a rhythm of "ta (rest) ta-ta."
  - 4: The delayed sound produces a rhythm of "ta-ta (rest) ta."
  - 5: The delayed sound produces a rhythm of "ta-ta-ta."

Knob 5 MIX Adjusts the mix amount of the echo.

#### Delay

#### STEREO DELAY "ST DLY"

A stereo delay with a time difference between the left and right channels adds a spacious feeling.

#### PING-PONG DELAY "PP DLY"

This is a stereo delay where the sound bounces between the left and right channels.

Knob 1 TIME		Adjusts the delay time.
Knob 2 FEEDBA	CK	Adjusts the feedback amount (delay repeats).
Knob 3 TONE		Adjusts the tonal quality of the delay.
Knob 4		
Knob 5 MIX		Adjusts the mix amount of the delay.

#### Reverb

This effect model simulates the reverberation of a room or concert hall, or the reverberation produced by a plate or spring reverb device.

#### ROOM "ROOM"

This simulates the reverb of small studio-sized rooms to medium-sized rooms such as a garage.

#### HALL "HALL"

This simulates the reverberation of medium-sized halls to large halls.

PLATE "	PLATE"
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This simulates a plate reverb device.

#### "SPRING" SPRING

This effect model simulates the spring reverb devices built into guitar amps etc.

Knob 1 TIME	Adjusts the length of reverb.
Knob 2	
Knob 3 TONE	Adjusts the tone of the reverb.
Knob 4	
Knob 5 MIX	Adjusts the mix amount of the reverb.

#### ECHO+ROOM "ECHO RM"

This is a dual effect model that lets you simultaneously use both a room reverb and a stereo delay.

#### ECHO+HALL "ECHO HL"

This is a dual effect model that lets you simultaneously use both a hall reverb and a stereo delay.

#### ECHO+PLATE "ECHO PL"

This is a dual effect model that lets you simultaneously use both a plate reverb and a stereo delay.

Knob 1 TIME Adjusts the delay time.

KNOD 2 FEEDBACK	Adjusts the feedback amount	(delay repeats).

Knob 3 TONE	Adjusts the tone of the delay sound.
Knob 4 ECHO	Adjusts the mix amount of the delay
	sound.

Knob 5 REVERB Adjusts the mix amount of the reverb.

# **Preset Program List**

When an effect block that was off is turned on, the effect model printed in a slanted typeface will be selected. A cabinet model appropriate for each program is selected in the CABINET effect block. If you will be using a direct output connection to a mixer etc., you should turn on the CABINET effect block.

BAN	K#	PROGRAM	A (DRIVE-AMP • CABINET)	B (DRIVE-AMP • CABINET)	MODULATION	PEDAL	AMBIENCE
0	1	ONE	CLASSIC COMP • 2x12 BLACK PANEL	METAL DIST • 4x12 VINTAGE	STEREO CHORUS	VOLUME	HALL
	2	FRUITLP	TUBE OD • 1x12 AC15	BRIT STACK • 4x12 CLASSIC	MOD DELAY	SAMPLE&PLAY	SPRING
	3	VULGAR	BRIT STACK • 4x12 VINTAGE	BRIT STACK • 4x12 VINTAGE	PITCH SHIFTER	VOLUME	HALL
1	1	ACUSTIX	ACOUSTIC • 4x12 CLASSIC	TUBE OD • 4x10 TWEED	CLASSIC CHORUS	VOLUME	PING PONG DELEY
	2	LOVEGUN	BRIT STACK • 4x12 VINTAGE	BRIT STACK • 4x12 VINTAGE	CLASSIC CHORUS	PITCH BEND	HALL
	3	GRUNGY	BIG FUZZ • 4x12 MODERN	BIG FUZZ • 4x12 MODERN	CLASSIC FLANGER	VOLUME	SPRING
2	1	SUMMER	CLASSIC COMP • 1x12 BLACK PANEL	TUBE OD • 4x12 MODERN	STEREO CHORUS	TAP TEMPO DELAY	STEREO DELEY
	2	"STP"	US HI-GAIN • 4x12 VINTAGE	US HI-GAIN • 4x12 VINTAGE	MOD DELAY	VOLUME	ROOM
		GRINDER	BRIT STACK • 4x12 MODERN	BRIT STACK • 4x12 MODERN	PITCH SHIFTER	VOLUME	HALL
3	1	MARATHN	CLASSIC COMP • 4x12 MODERN	ACOUSTIC • 4x12 VINTAGE	STEREO CHORUS	CHORUS/FLANGER	ECHO+PLATE
	2	STONE	BRIT STACK • 1x12 BLACK PANEL	BRIT STACK • 4x12 CLASSIC	MOD DELAY	VOLUME	PLATE
	3	*ZEP*	ACOUSTIC • 4x12 VINTAGE	METAL DIST • 4x12 VINTAGE	STEREO CHORUS	VOLUME	ECHO PLUS
4	1	ROOSTER	CLASSIC COMP • 4x12 CLASSIC	SEATTLE • 4x12 MODERN	AUTO WAH	VOX WAH	ECHO PLUS
	2	BEETLE	TOP BOOST • 1x12 AC15	TUBE OD • 4x12 VINTAGE	BLACK PHASER	VOLUME	ROOM
	3	BECKOLA	CLASSIC DIST • 1x12 BLACK PANEL	FAT DIST • 4x12 CLASSIC	CLASSIC CHORUS	TALK	MULTI HEAD ECHO
5	1	L-A	CLASSIC COMP • 1x12 BLACK PANEL	TUBE OD • 1x12 AC15	MOD DELAY	VOLUME	SPRING
•	2	LODRIVE	FAT DIST • 4x12 VINTAGE	FAT DIST • 4x12 MODERN	ORANGE PHASER	VOLUME	STEREO DELEY
	3	AXPRNCE	TOP BOOST • 2x12 AC30	BIG FUZZ • 2x12 AC30	AUTO WAH	VOLUME	PLATE
6	1	PET-CLN	ACOUSTIC • 1x12 BLACK PANEL	CLASSIC COMP • 1x12 BLACK PANEL	STEREO CHORUS	VOLUME	ECHO+PLATE
•		BLUES	CLASSIC COMP • 4x10 TWEED	TOP BOOST • 1x8 TWEED	STEREO CHORUS	VOLUME	ROOM
	3	IMAGES	CLASSIC COMP • 4x10 TWEED	METAL DIST • 4x12 CLASSIC	AUTO WAH	VOX WAH	PLATE
7	1	LP NECK	CLASSIC COMP • 2x12 AC30	US HI-GAIN • 2x12 AC30	CLASSIC CHORUS	VOLUME	PING PONG DELEY
•		TRIPPIN	CLASSIC COMP • 4x10 TWEED	TUBE OD • 4x10 TWEED	ORANGE PHASER	VOLUME	ECHO PLUS
	3	RHYTHM	CLASSIC COMP • 1x12 TWEED	METAL DIST • 4x12 MODERN	BLACK PHASER	TAP TEMPO DELAY	ECHO PLUS
8	1	FATSRAT		BRIT STACK • 4x12 CLASSIC	MOD DELAY	VOLUME	ROOM
U		HIDDEN	CLASSIC COMP • 4x12 MODERN	CLASSIC DIST • 2x12 AC30	FILTRON	TRAVELER	PING PONG DELEY
	3	OCTAMAN	TOP BOOST • 4x12 VINTAGE	SEATTLE • 4x12 VINTAGE	OCTAVE	VOLUME	ECHO+PLATE
0	1	INDABOX	BIG FUZZ • 1x8 TWEED	FAT DIST • 1x8 TWEED	MOD DELAY	TALK	ROOM
		U-VIBE	CLASSIC COMP • 4x12 VINTAGE	FAT DIST • 4x12 VINTAGE	ORANGE PHASER	U-VIBE	PLATE
		BENDER		METAL DIST • 4x12 MODERN			SPRING
۸		FILTRON	CLASSIC COMP • 4x12 VINTAGE		FILTRON	VOLUME	STEREO DELEY
~		BARITON	CLASSIC COMP • 2x12 CLASS A	TUBE OD • 4x12 CLASSIC	TEXTREM	VOLUME	ECHO+PLATE
		CHORUS	CLASSIC COMP • 2x12 BLACK PANEL	FAT DIST • 4x12 CLASSIC	CLASSIC CHORUS		PLATE
P	-	S+P LP	CLASSIC COMP • 4x10 TWEED	US HI-GAIN • 4x12 CLASSIC	CLASSIC FLANGER		
U		S+P SLW	TOP BOOST • 2x12 AC30	BRIT STACK • 4x12 CLASSIC	MOD DELAY	SAMPLE&PLAY	
		S+P FST	TUBE OD • 4x12 MODERN	US HI-GAIN • 2x12 BLACK PANEL	STEREO CHORUS		
C		HOLDDLY	CLASSIC COMP • 4x12 VINTAGE	US HI-GAIN • 4x12 MODERN		HOLD DELAY	
C		TAP DLY	TUBE OD • 1x12 BLACK PANEL	CLASSIC DIST • 4x12 CLASSIC			PLATE
		3-HEAD-	TOP BOOST • 1x8 TWEED	BIG FUZZ • 2x12 BLACK PANEL	ORANGE PHASER		MULTI HEAD ECHO
<u>م</u>		TWEED	TUBE OD • 2x12 BLACK PANEL		MOD DELAY	VOLUME	ECHO+HALL
U		60'SVOX	TOP BOOST • 2x12 AC30	TOP BOOST • 2x12 AC30	TEXTREM	VOLUME	ROOM
		BRITISH		BRIT STACK • 4x12 VINTAGE		VOLUME VOX WAH	ECHO+PLATE
F		CREED	ACOUSTIC • 1x8 TWEED	CLASSIC DIST • 4x12 CLASSIC		VOLUME	PLATE
E	-						
	-			BRIT STACK • 4x12 VINTAGE			
-	-	PP-DLY	TOP BOOST • 2x12 AC30	US HI-GAIN • 4x12 MODERN	CLASSIC CHORUS		
F			CLASSIC COMP • 2x12 CLASS A				HALL
•	^			BRIT STACK • 4x12 VINTAGE	CLASSIC FLANGER	CHORUS/FLANGER	MULII HEAD ECHO
•	-	"VH" 7-STGTR	BRIT STACK • 4x12 CLASSIC US HI-GAIN • 4x12 MODERN				ECHO+HALL

### 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.

