i5M

Interactive Music Module

User's Guide

GENERAL MIDI INSTRUMENT

AI² Synthesis System

KORG

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

■ Power supply

Please connect the supplied 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 musical instrument 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 a cup, vase, or any other container with liquid in it on top of 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, turn off the power switch and unplug the AC adaptor from the wall outlet. Then contact your nearest Korg dealer or the store where the equipment was purchased.

i5M Back-up Battery

The *i5M* uses a back-up battery to prevent memory loss when the power is turned off. If the display shows "Battery Low", the battery should be replaced. Consult the nearest Korg Service Center or dealer.

Trademarks

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Introduction

Thank you for purchasing the Korg *i5M* .

The *i5M* is an "interactive sound module" that was specially developed to provide the functionality of Korg's highly-acclaimed interactive music workstation, the *i5S*, in a form that is easier to use than ever. It also integrates additional versatile functions that allow you to connect it to a synthesizer, a MIDI master keyboard, or other MIDI devices for an interactive music performance system.

The *i5M* provides a full array of functions that make it the ideal interactive music workstation: high quality sound produced by Korg's renowned AI² synthesis system with two stereo digital multi-effect units; an Arrangement Play function that can create a rich musical accompaniment controlled by specifying chords on the front panel or from the connected keyboard; a backing sequence function that allows you not only to record and playback your own playing and auto accompaniment on the connected keyboard (including sound program changes and panel operations), but also to use the powerful editing functions to manipulate the data in any way; and a SMF Song Play function that lets you playback commercially available musical data in Standard MIDI File format. In addition, new functions such as interactive composition functions, sustain, sound hold, and fade in/out make the *i5M* a powerful tool for creating and playing music.

The *i5M* can of course be played as a sound module in a desktop music system using a MIDI keyboard and a computer. But its new design concept makes it capable of much more than this; you can also use it as an automatic accompaniment system to accompany singing or other instruments, as a sophisticated tool for composing and arranging, or as a powerful live performance sound module that allows real-time modification of the built-in data.

In order to take full advantage of the *i5M*'s capabilities and to ensure years of trouble-free enjoyment, please read this manual carefully and use the *i5M* correctly.

User's Guide

The User's Guide (this manual) explains basic operation of the *i5M*, covering each of the panel keys and providing a "navigation map" of the *i5M*.

Reference Guide

The reference Guide is like a "dictionary" of the *i5M*'s functions; it covers all the functions and settings of the *i5M* arranged in the order that they appear in the LCD screen. It also lists various reference materials, such as the internal or included program and performance data lists.

* The User's Guide includes LCD figures along with an explanation of the functions and operations. The program/arrangements numbers and names, parameters, and values in these figures are examples. Therefore, the actual indication on the LCD of the *i5M* may be different due to specification improvements and changes in the programs.

Contents

1. Basic operation and front/rear panels

1. Setup

1. Check the included items

The following items are packaged with the *i5M*. Make sure that they are all included.

- "User's Guide" (this manual)
- "Reference Guide"
- Data disk (1) .... This contains five types of music and sound data for the *i5M*.
- Parameter sheets (9) .... These are lists of the two sets of music and sound data provided in the data disk and in the *i5M* memory. For details on how to use these, refer to P.1-4 "Parameter sheet slot".
- Overlay sheets (3) .... These sheets are placed on the keys that have different functions depending on the type of performance/program data loaded from the data disk, or on the mode and settings of the *i5M*.
- AC adapter

2. Power

First make sure that the *i5M* power switch is turned off. Then connect the included AC adapter to the DC IN connector on the rear panel, and connect the plug to an AC outlet.
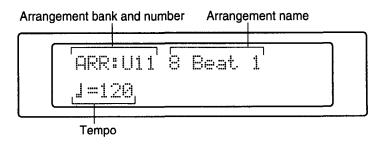
⚠ Do not use any AC adapter other than the included adapter. Otherwise, malfunction may occur.

The power switch is located directly above the power inlet on the *i5M*'s rear panel. When the power has been correctly connected, press the power switch to turn on the *i5M*'s power. The following display will appear for several seconds.

```
  WELCOME TO KORG
MUSIC MODULE   i5M
```

When the following display appears, the *i5M* is ready for playing.

Arrangement bank and number   Arrangement name

```
ARR:U11  8 Beat 1
♩=120
```

Tempo

To turn the power off, press the power switch again. If you have connected the *i5M* outputs to an external device such as an audio amp or audio mixer, turn the volume of these devices down to minimum position before turning the *i5M* power on/off.

Be careful to never turn the power off while the disk access indicator is lit, or while the LCD shows a message such as "Loading", "Saving", or "Formatting".

The data of all programs and arrangements is preserved inside the *i5M* memory even when the power is turned off, but song data and backing sequence data is lost when the power is turned off. Be sure to save backing sequence data to a floppy disk before turning off the power.

☞Reference Guide P.5-7 "SAVE"

3. Adjusting the volume

Use the MASTER VOLUME slider to adjust an appropriate volume from the speakers. If you have connected a pair of headphones, the MASTER VOLUME will also adjust the headphone volume.

2. Front and rear panels

1. Front panel

① LCD screen

This screen displays various messages indicating the status and settings of the *i5M*. When you have loaded arrangements or programs from the included floppy disk, it is convenient to insert the appropriate parameter sheet into this slot so that you can see at a glance the data that is in the user bank.

② Master volume

This adjusts the overall volume of the entire *i5M* (headphones and outputs).

③ Parameter sheet slot

Cards listing the arrangements and programs of the data disk are included with the *i5M*. When you have loaded arrangements or programs from the included floppy disk, it is convenient to insert the appropriate parameter sheet into this slot so that you can see at a glance the data that is in the user bank.

④ Arrangement (program) select key panel

The included overlay sheets are placed here to facilitate the use of those keys that have different functions depending on the type of performance/program data loaded from the data disk or on the various modes and settings of the *i5M*.

✳ Keys

The front panel of the *i5M* contains many keys controlling a variety of functions. Some keys control two or more functions, and for such keys the names of the different functions are printed in different colors.

Detailed explanations of key functions are found in P.2-1 "What happens when you press ...? List of keys".

2. Rear panel

① Headphones

By connecting a set of stereo headphones to this jack, you can play and listen to the *i5M* without being heard by those around you.

② OUTPUT

If you wish to listen to the sound of the *i5M* through an external device such as a keyboard mixer or audio amp, connect the device to these jacks.

If you are connecting the *i5M* in stereo, the left and right signals will be output from the L/MONO and the R jacks respectively. For mono connections, use the L/MONO jack.

③ INPUT

These jacks allow you to input audio signals from an external device such as a tone generator module, cassette recorder or CD player, and listen to it together with the *i5M*'s own sound on a set of headphones, or an external audio system.

For stereo connections use the L/MONO and R jacks. For mono connections use the L/MONO jack.

Use the volume control of the external device connected to the INPUT jacks to control its volume.

④ ASSIGN PDL/SW (assignable pedal/switch)

A separately sold Korg XVP-10 or EXP-2 pedal controller or a PS-1 or PS-2 foot switch can be connected here. The function that these pedals will have can be set in Global mode. ☞Reference Guide P.5-20 "Pedal Parameter"

⑤ DAMPER

A separately sold damper pedal such as the Korg DS-1 can be connected here. If you connect a pedal not manufactured by Korg, you may have to set the polarity in Global mode. ☞Reference Guide P.5-31 "DAMPER"

⑥ EC5

A separately sold Korg EC5 external controller can be connected here. In Global mode you can assign a different function to each of the five switches of the EC5. ☞Reference Guide P.5-20

⑦ MIDI

These connectors are used to communicate with other devices that have a MIDI interface, such as keyboards or computers. You will need separately sold MIDI cables to make connections.

The MIDI IN connector receives MIDI messages from other devices. There are two MIDI IN connectors, which allow you to connect two different MIDI devices such as a MIDI keyboard and a personal computer to control the *i5M*.

The MIDI OUT connector transmits MIDI messages to other devices.

The MIDI THRU connector re-transmits the messages that were received at MIDI IN 1. However, data received at the MIDI IN 2 connector will not be transmitted. ☞P.8-1 "MIDI Application"

⑧ AC adapter DC IN connector

Connect the included AC adapter here.

3. Disk drive

① Disk access indicator

When this indicator is lit, the disk drive is operating.

Be careful to never remove the floppy disk from the drive while this indicator is lit.

② Floppy disk drive slot
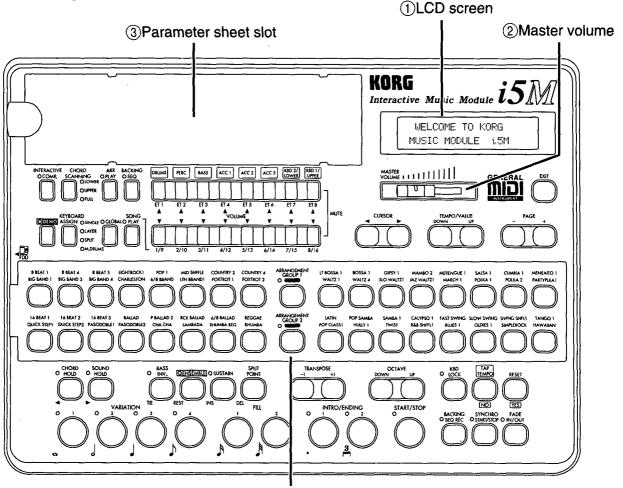
A 3.5 inch double sided, double density (2DD) or a double sided, high density (2HD) floppy disk can be inserted here.

③ Disk eject button
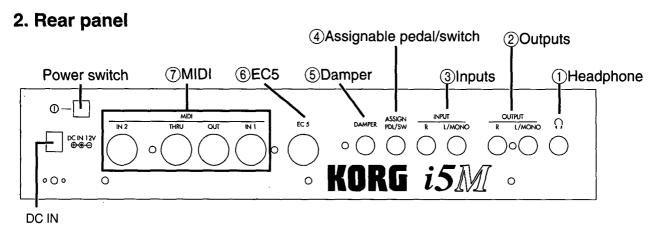
Press this button to remove the floppy disk from the disk drive.

If pressing this button does not cause the disk to be ejected, contact your dealer . Never attempt to remove the disk by force.

1. Front panel

①LCD screen

③Parameter sheet slot

②Master volume

④Arrangement (program) select key panel

2. Rear panel

④Assignable pedal/switch

②Outputs

Power switch　⑦MIDI　⑥EC5　⑤Damper　③Inputs　①Headphone

DC IN

3. Disk drive

① Disk access indicator

③Disk eject button

②Floppy disk drive slot
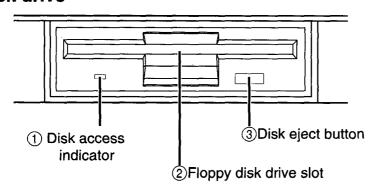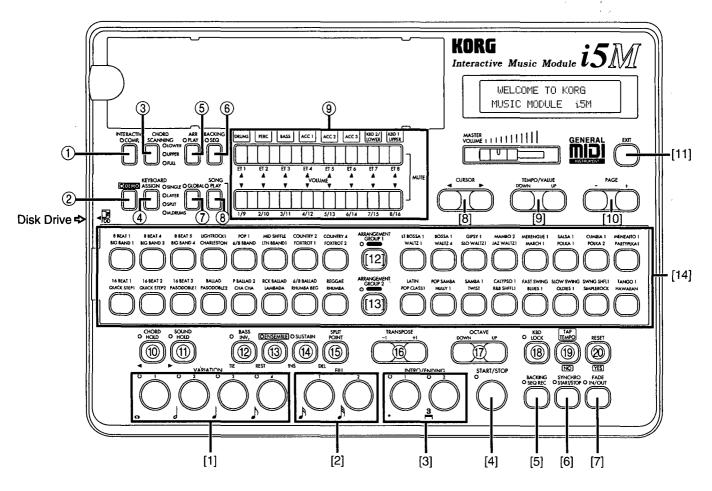
2. What happens when you press ...? List of keys

Functions available in Arrangement Play Mode.

Functions available in Backing Play Mode.

Functions available in Song Play Mode

Functions available in Global Mode

These keys have an LED beside them (usually at the upper left) to indicate their status. In most cases, the LED will alternate between lit and unlit each time the key is pressed, and when the LED is lit, the function of that key is active.
For some keys, the LED will blink to indicate a special situation.

① INTERACTIVE COMP. Interactive Composition

Apply an automatic accompaniment to the melody

When this key is pressed, the *i5M* will analyze the melody played on the connected MIDI instrument to determine the chords, and will automatically play a bass and accompaniment for those chords.

This function can be used in two ways; in Arrangement Play mode to add an accompaniment at the same time as the connected MIDI instrument is being played, or in Backing Sequence mode to analyze a previously recorded melody and then add the accompaniment when it is played back. The chords that are produced from a given melody may be different depending on which of these two ways are used.☞P.3-18, P.6-1 "Interactive Composition"

② DEMO Demo

Hear the demo song

When this key is pressed, a demonstration of the *i5M* will playback. The demo can be heard in any mode.

③ CHORD SCANNING Chord Scanning

Create chords from keyboard notes you play

This key determines the range of the notes in which chords played on the connected instrument will be detected.

You can select one of the following three modes to specify which range of the notes will be detected; above the split point (Upper Chord Scanning), below the split point (Lower Chord Scanning), or the entire range of the notes (Full Chord Scanning).

When you select Upper Chord Scanning or Full Chord Scanning, playing three or more notes simultaneously will cause the *i5M* to detect chords. The chords played in the lower range can be abbreviated; for example by playing just one note for a major chord, or two notes for a minor or sus4 chord, etc. It is not necessary to play all the notes of a chord.

For details on the chords that will be produced when you play different combinations of notes, refer to Appendix C, "Recognized chords" in the Reference Guide.

Each time you press the key, the mode will alternate between LOWER, UPPER, and FULL.

④ KEYBOARD ASSIGN Keyboard Assign

Select right and left hand sounds

This key determines how the two keyboard timbres of the *i5M* will be arranged on the note ranges of the connected MIDI instrument.

You can have the same sound play for the entire note range (Single mode), different sounds play in the higher and lower ranges of the notes specified by the split point (Split mode), or two sounds play for each note played (Layer mode). You can also select the Manual Drum mode, in which each note will play a different percussion instrument.

Each time you press the key, the mode will alternate between SINGLE, LAYER, SPLIT, and M.DRUMS.

The standard mode for playing the *i5M*

⑤ ARR/PLAY ◉⁻ Arrangement Play

When you press this key, the *i5M* will enter Arrangement Play Mode.

Select this mode when you wish to play the keyboard connected to the *i5M*, or to play with an automatic accompaniment. The *i5M* will automatically be in Arrangement Play Mode when the power is turned on.

Record and edit in this mode

⑥ BACKING SEQ. ◉⁻ Backing Sequence

When you press this key, the *i5M* will enter Backing Sequence mode.

Use this mode when you wish to record your playing on the MIDI instrument connected to the *i5M* along with the accompaniment, or to modify or create new playback data.

If you press this key while in Backing Sequence mode, you can use the VOLUME/MUTE key to select the track (KBD, ACC, PERC, DRUMS, and the 8 extra tracks) for which you want to make volume or mute settings.

If an extra track is selected for volume/mute settings, the LED will blink. It is not possible to make volume or mute settings unless you are in the Realtime Record/Playback page (the first page).

Functions for disk and MIDI, etc.

⑦ GLOBAL ◉⁻ Global

When this key is pressed, the *i5M* will enter Global Mode.

Press this key when you wish to save or load *i5M* musical data to or from floppy disk, or make various settings that affect the entire *i5M*, such as tuning, scale, basic functions, foot switch and pedal settings, and MIDI settings.

Listen to SMF disk playback

⑧ SONG PLAY ◉⁻ Song Play

When you press this key, the *i5M* will enter Song Play Mode.

Press this key when you wish to load and playback song data in Standard MIDI File (SMF) format directly from disk.

When you press this key in Song Play Mode, you can select either Ch.01—08 or Ch.09—16 as the MIDI channels for which the VOLUME/MUTE keys will make volume and mute settings.

If Ch.09—16 are selected for volume/mute settings, the LED will blink.

Specify the part

⑨ TRACK/CHANNEL VOLUME/MUTE
1. Track/Channel

Press these keys to specify the volume, type of sound, damper pedal operation, stereo location, and octave for each of the parts (tracks or channels) that are played by the MIDI instrument connected to the *i5M* or automatically played as accompaniments (bass, percussion, drums, etc.).

For volume settings, refer to the following paragraph "VOLUME/MUTE". For other settings, refer to "Track settings" in Arrangement Play Mode or Backing Sequence Mode of the Reference Guide.

2. VOLUME/MUTE

Adjust the volume for each instrument
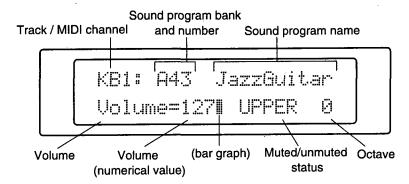
Use these keys to set the volume or muting for the program that is assigned to each track (or in Song Play Mode, to each channel). However in Backing Sequence mode, volume and mute settings can be made only if the Realtime Record/Playback page (the first page) is selected.

For any track/channel, pressing the ▲ key will raise the volume of the program, and pressing the ▼ key will decrease the volume. These keys will raise or lower the value continuously if you continue holding them down.

Also, by pressing both ▲ and ▼ keys simultaneously, you can switch between muted and unmuted status.

Changes in volume or muted/unmuted status will be indicated in the LCD as numerical values or bar graphs.

When you press a ▲ or ▼ key, the following information will appear in the LCD.

Track / MIDI channel   Sound program bank and number   Sound program name

```
KB1:  A43   JazzGuitar
Volume=127▮ UPPER   0
```

Volume   Volume (numerical value)   (bar graph)   Muted/unmuted status   Octave

The top line of the display shows the arrangement track or extra track (in Backing Sequence mode) that corresponds to the key that you pressed, and the sound program assigned to that track.

The left side of the lower line shows the volume of the track or channel as a number from 000 (minimum) to 127 (maximum), and as a small bar graph.

The right side of the lower line shows whether that track or channel can be played (PLAY) or is currently muted (----), and a number that indicates the octave setting. However if you press the KBD1/UPPER or the KBD2/LOWER key of the arrangement track, the keyboard assign setting (UPPER or LOWER) of that track will be displayed instead of the PLAY indication.

These screen displays will return to the original page display if no keys are operated for approximately seven seconds.

⑩ CHORD HOLD ✦/◀

1. Chord Hold

Remembering the chord you press

When playing an arrangement, pressing this key will sustain the chord and bass until the next note is played, even if you stop playing the connected MIDI instrument. This means that you will have more time to change chords on the instrument, and is especially convenient if you are not accustomed to playing such an instrument.

2. ◀

When you are step recording a backing sequence, the displayed step (the step for editing) will move backward each time you press this key.

☞Reference Guide P.2-12, 2-13

An easy way to add excitement to an introduction or accompaniment

⑪ SOUND HOLD ●⃔/▶

1. Sound Hold

If this key is pressed together with Chord Hold, the note (or chord) that is played on the connected MIDI instrument and the bass sound will sustain until the next time you play the instrument.

Unlike when Chord Hold is on, the sound of the connected MIDI instrument and the bass sound will sustain even if the accompaniment playback stops. This is very effective when you wish to have a dramatic lead-in at the beginning of the song where the rhythm has not yet begun.

When the arrangement playback starts, the bass sound will be replaced by the playback of the accompaniment track, but the sound played on the instrument will continue as is. This helps to add depth to the accompaniment.

The Global Mode Sound Hold parameter allows you to specify whether the notes played on the instrument will sound together with the bass note just as they are, whether the chord created by the Chord Scanning and Voicing functions will be sounded, or whether only the bass note will be sounded. ☞Reference Guide P.5-23.

⚠ When using this function...

1. Set Chord Scanning to LOWER.
2. If KBD2/LOWR is muted, simultaneously press the ▲ and ▼ keys to turn off muting.
3. This function cannot be used for INTRO1 or ENDING1, since chord changes are not possible.

2. ▶

When you are step recording or event editing a Backing Sequence, pressing this key will move backward to the previously displayed (editable) step. ☞Reference Guide P.2-12, 2-13

⑫ BASS INV. ●⃔/TIE

Independently specify bass notes

1. Bass Inversion

If this key has been pressed, specifying a chord on the connected MIDI instrument will cause the *i5M* to use the lowest pressed note as the bass note, and detect it separately from the expanded chord form.

This allows you to specify chord forms such as Am7/G or F/C, which have an independent bass note.

When Chord Scanning is set to FULL, the previous bass note will sustain after you release the key until you play another bass key.

2. Tie

When you are step recording or event editing a Backing Sequence, pressing this key will connect the currently displayed step with the previous step of the last measure to create a single note. ☞Reference Guide P.2-11

⑬ ENSEMBLE ●⃔/REST

Create harmony just by playing a melody

1. Ensemble
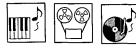
If this key has been pressed, harmony will be determined by the chord scanning and will be sounded with the melody that you play on the instrument connected to the *i5M*.

2. Rest

When you are step recording or event editing a Backing Sequence, pressing this key will insert a rest after the currently displayed step.
☞Reference Guide P.2-11

⑭ SUSTAIN ⏻/INS

Notes with sustain

1. SUSTAIN

If this key has been pressed, the notes you play will have sustain. The length of sustain varies depending on the Program you are using.

2. INSERT

When you are step recording or event editing a Backing Sequence, press this key to insert a note or an event after the currently displayed step.
☞Reference Guide P.2-22 "Event Edit"

Pressing this key will insert a character in the cursor position on the arrangement, Backing Sequence, or file name during the Rename Arrangement (☞Reference Guide P.1-13), Rename Backing Sequence (☞Reference Guide P.2-29), or Save operation (☞Reference Guide P.5-7).

⑮ SPLIT POINT/DEL

Split point between right
and left hands

1. Split Point
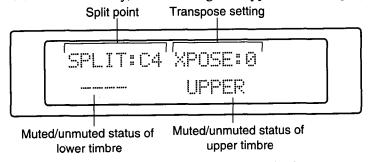
Holding down this key and using the TEMPO/VALUE UP/DOWN keys will set a Split Point.

Also, if you hold down this key and play a note on the connected MIDI instrument, that will be specified as the Split Point.

Use this key to set the Split Point between the left hand (lower) and the right hand (upper) when you wish to divide the two keyboard timbres of the *i5M* to left and right in Split mode, or to set the area for Chord Scanning.

You can check the Split Point setting in the LCD screen.

As you hold down this key, the following will appear in the display.

Split point   Transpose setting

```
SPLIT:C4  XPOSE:0
                  UPPER
```

Muted/unmuted status of   Muted/unmuted status of
lower timbre   upper timbre

The split point will be displayed as the lowest note in the upper section (i.e., the note you played to make the setting).

In the above example, the upper area (C4 and higher) can be played, and the lower area (B3 and lower) is muted.

2. Delete

When you are step recording or event editing a Backing Sequence, press this key to delete the currently displayed step. ☞Reference Guide P.2-22 "Event Edit"

Pressing this key will delete a character at the cursor on the arrangement, Backing Sequence, or file name during the Rename Arrangement (☞Reference Guide P.1-13), Rename Backing Sequence (☞Reference Guide P.2-29), or Save operation (☞Reference Guide P.5-7).

Easy transposition

⑯ TRANSPOSE (-1/+1)
Transpose
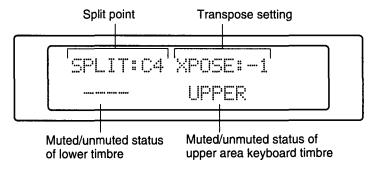
By pressing these keys you can adjust the pitch of the *i5M* automatic accompaniment and the sound played from the connected MIDI instrument, in semitone steps over a range of ±11.

You can check the Transpose setting in the LCD screen. When you press the -1 or +1 key, a display such as the following will appear.

Approximately 7 seconds after you release this key, this display will change back to the previous display.

Split point   Transpose setting

```
 SPLIT:C4  XPOSE:-1
 ---------        UPPER
```

Muted/unmuted status   Muted/unmuted status of
of lower timbre   upper area keyboard timbre

If you simultaneously press the -1 and +1 keys, the Transpose setting will be immediately reset to 0.

Raising or lowering the pitch

⑰ OCTAVE (DOWN/UP)
Octave
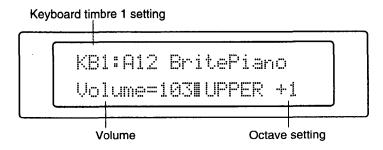
By pressing these keys, you can raise or lower the pitch of the connected MIDI instrument and *i5M*'s automatic accompaniment tracks (Bass, ACC1, ACC2, ACC3) in one octave steps, over a range of ±2 octaves.

You can check the Octave setting in the LCD screen. When you press the UP or DOWN key, a display such as the following will appear.

Approximately 7 seconds after you release this key, this display will change back to the previous display.

Keyboard timbre 1 setting

```
 KB1:A12 BritePiano
 Volume=103 UPPER +1
```

Volume   Octave setting

Each time you press the UP or DOWN key, the octave setting will increase or decrease one octave.

If you simultaneously press the UP and DOWN keys, the Octave setting will be reset to 0.

Lock in the tempo and sound

⑱ KBD LOCK
Keyboard Lock

If you press this key, the tempo and instrument sound of the current arrangement will be maintained even if you switch to a different arrangement.

By pressing this key you can lock the following parameters: Tempo, Program, Octave, Muted/unmuted status of keyboard track, Bass Inversion, KBD, Assign, SPLIT POINT, TRANSPOSE, CHORD SCAN, VOLUME, PAN, SEND, and Effect.

☞P.3-9 "Now let's try playing and providing your own accompaniment"

⑲ TAP TEMPO/NO
1. Tap Tempo

Set the tempo by tapping

The playback tempo will be set to the tempo (♩ = 40~240) at which you tap this key.

If you press the TAP TEMPO key several times in succession, the playback tempo will be automatically set to the timing at which the key is tapped. At this time, the display will indicate the tempo value.

The TAP TEMPO key can be used to set the tempo during playback or when playback is stopped.

2. No

When the LCD asks you to execute or confirm an operation (Yes/No), press this key to select No.

Pressing this key while a sub-page is open will return to the previous display.
☞P.4-3

⑳ RESET/YES
1. Reset

Return to the beginning

By pressing this key, you can ...

1. Restore a sound selected during Arrangement Play to the original settings.

2. Immediately return to the first measure of the Backing Sequence.

3. Return to a condition in which no chord is selected (no chord is being played in the Chord Scanning area of the keyboard).

You can also press this key if notes become "stuck" and fail to stop sounding (for example because of a problem with MIDI connections, etc.).

2. Yes

When the LCD asks you to execute or confirm an operation (Yes/No), press this key to select Yes. Also, press this key to confirm the specified chord when you enter a chord during step recording in Backing Sequence mode.

In displays where you can select a sub-page, you can also use this key to open the sub-page indicated by the cursor. ☞P.4-3

[1] VARIATION (1,2,3,4) ●
1. Variation

Four Variations of performance style

These keys allow you to select one of the four variations for each of the styles provided in the *i5M*.

If you press one of these keys to select a different variation while playing an arrangement, the selected variation will begin either immediately or from the next beat or measure, depending on the type of variation.

If you set the Fill parameter in Arrangement Play Mode, the variation will automatically change after the Fill is played, allowing you to add variety to the development of the song. ☞Reference Guide P.1-11 "Variation Change"

The LED of the selected variation will continue blinking until playback changes to that variation.

2. Step input

When step recording in Backing Sequence mode, you can use these keys to specify the step (note length).
☞Reference Guide P.2-10 "Step Recording"

VARIATION 1 = o
VARIATION 2 = ♩
VARIATION 3 = ♩
VARIATION 4 = ♪

Playing a Fill-in during a song

[2] FILL (1,2)
1. Fill-in

By pressing these keys while playing an arrangement, you can play one of two types of fill-ins. When the Fill begins to play, the LED of the variation that was playing up to that point will blink. Some arrangements have fills that can be used instead of intros.

2. Step input

When step recording in Backing Sequence mode, you can use these keys to specify the step (note length).
☞Reference Guide P.2-10 "Step Recording"

FILL 1 = ♪
FILL 2 = ♪

[3] INTRO/ENDING (1,2)
1. Intro/Ending

Starting a song with a suitable intro

1. By pressing one of these keys before arrangement play begins, you can specify whether or not an intro will be played before the variation begins.

The LED of the selected intro will light up during intro performances, however will immediately turn off when the variation begins. Each style comes with two intro types.

Dramatic ending

2. If you press one of these keys during arrangement play, an ending will be played and then playback will stop automatically. Each style has two types of endings.

The LED of the selected ending will continue blinking until the playback switches to that ending. Then, it will stay lit until the playback is completed.

2. Step input

When step recording in Backing Sequence mode, you can use these keys to specify the step (note length).
☞Reference Guide P.2-10 "Step Recording"

INTRO/ENDING 1 = dotted ..... the specified note value will be lengthened by 1.5 times

INTRO/ENDING 2 = triplet ..... the specified note value will be changed to 1/3rds

[4] START/STOP
Start/Stop

Start/Stop playback and recording

Use this key to start or stop playback of an arrangement or an SMF song, or to start or stop recording or playback. You can also use this key to stop playback of a demonstration song.

When stopped, the LED will blink green in synchronization with the tempo currently indicated. When playback or recording begins, it will blink in synchronization with the time signature set in the playback data, red on the first beat, and green on other beats.

While SMF Format 1 data is being loaded from floppy disk, this LED will rapidly blink red.

[5] BACKING SEQ.REC
Backing Sequence Recording

Ready to record

When this key is pressed, the *i5M* will enter record ready status. This is the same for realtime recording and for step recording.

If you press this key when a User bank is selected in Arrangement mode, data will be written into the selected arrangement. The LCD will show "Write to ARR ○ ○ ?". If you wish to write data, press the RESET/⟨YES⟩ key.

⚠ If Chord Scanning has been set to "FULL", make sure CHORD HOLD is ON before you start recording in order to enter chords using the CHORD key during step recording.
(The CHORD HOLD ON/OFF setting will be stored on the CTRL track, and will not affect sequence data.)

[6] SYNCHRO START/STOP
Synchronized Start/Stop

Start at the moment you play the keyboard

Instead of pressing the START/STOP key to begin playback, you can press this key so that arrangement play will begin the instant you send chord data from the connected MIDI instrument, and will stop as soon as you stop playing on the instrument. ☞P.3-10

[7] FADE IN/OUT
Fade In/Out

Gradually increase/decrease the volume

Instead of pressing the START/STOP key to begin playback, you can press this key so that playback will start from silence and gradually increase in volume.

Instead of pressing the START/STOP key to stop playback, you can press this key so that performance will gradually fade out.

[8] CURSOR (◄, ►)
Cursor

Use these keys to select items by moving the cursor in the LCD screen.

When these keys are pressed, the cursor will move successively through the items in the display.

Pressing the ► key will move the cursor from left to right.

Pressing the ◄ key will move the cursor from right to left.

When you press the ► key repeatedly and the cursor reaches the last item in a display, it will "wrap around" to the first item.

[9] TEMPO/VALUE (DOWN, UP)
Tempo/Value

1. When playing in each mode, use these keys to temporarily change the tempo.

Pressing the DOWN key will make the tempo slower, and pressing the UP key will make the tempo faster.

Simultaneously pressing the DOWN and UP keys will reset the tempo to the original value.

* By using the KBD LOCK function, you can play at the same tempo even if a different arrangement is selected. ☞P.2-7 "KBD LOCK"

2. Use these keys to increase or decrease the value of the item selected by the cursor, or to display selections.

Pressing the DOWN key will decrease the value, or display the previous selection. Pressing and holding down this key will change the value or option continuously.

Pressing the UP key will increase the value, or display the next selection. Pressing and holding down this key will change the value or option continuously.

If you press both the DOWN and the UP keys simultaneously, the selected item will be reset to the original value (i.e., the value that it had when the cursor was moved to that item).

Changing the LCD pages

[10] PAGE (-, +)
Page

In all modes, use these keys to select the page you wish to see.

Pressing the + key will display the next page.

Pressing the -key will display the previous page.

* By simultaneously pressing the key of the currently selected mode and an ARRANGEMENT SELECT key or a PROGRAM SELECT key, you can jump directly to a specific page of that mode. Refer to "Switching Page Display" on the first page of each mode chapter in the Reference Guide.

[11] EXIT
Exit

1. In all modes, you can press this key to return to the first page.

2. In a sub-page of Backing Sequence mode (an editing page) or a sub-page of Global Mode (a disk operation page), you can press this key to return to the highest page. ☞P.4-3"Sub-page"

3. In the setting displays which appear only for a fixed interval of time such as Octave or Transpose, or in displays which show an incomplete arrangement or program setting (e.g., displays that show an incompletely-specified number setting), you can press this key to immediately return to the previous display.

You can also press this key in the middle of an operation to cancel that operation.

If you press this key in the first page of Backing Sequence mode, the currently-used arrangement will be displayed. In approximately 7 seconds, the previous display will reappear. ☞Reference Guide P.2-3

[12] ARRANGEMENT GROUP 1 ☀/CHORD ☀

1. ARRANGEMENT GROUP 1

If Arrangement Select has been set to 32key on page 2 in Global mode (☞Reference Guide P.5-9), pressing this key allows you to select an arrangement from U11-U48 that are currently loaded in the User bank.

2. Chord

Specify chords at a touch

If Arrangement Select has been set to 8key on page 2 in Global mode (☞Reference Guide P.5-9), instead of specifying chords from the connected MIDI instrument, you can press this key and specify the root, type and tension of chords using the ARRANGEMENT (PROGRAM) SELECT keys located on the front panel. This is convenient when you know the name of the chord, but do not know how it is played.

Place the included overlay sheet on the panel since it has the arrangement and program banks and numbers printed on it. The root, type and tension of the available chords are printed in green on the overlay sheet. (☞P.2-14)

Specify the chord type using the ARRANGEMENT BANK keys and the ARRANGEMENT NUMBER keys.

Two types of chords are assigned to each key. Pressing one of these keys will specify the chord indicated on the left side of the key, and pressing the same key again will specify the chord indicated on the right side of the key. Pressing one of these keys while holding down the TENSION key (PROGRAM NUMBER 8) will specify the chord indicated on the right side of the key. In either case, these two will alternate each time you press the key and your selection will appear in the LCD.

Specify the chord root using the PROGRAM BANK keys and the PROGRAM NUMBER keys 1-7. Your section will appear in the LCD.

This chord base is specified using the PROGRAM BANK and PROGRAM NUMBER keys 1-7 while pressing the chord key.

Holding down PROGRAM NUMBER 8 key and pressing a chord key will specify the tension. The selection will appear in the LCD.

The types of tension that can be specified will depend on the type of chord. For details refer to Appendix C "Recognized Chords" in the Reference Guide.

[13] ARRANGEMENT GROUP 2 ☀/10'S HOLD ☀

1. ARRANGEMENT GROUP 2

If Arrangement Select has been set to 8key on page 2 in Global mode (☞Reference Guide P.5-9), pressing this key allows you to select an arrangement from U51-U88 that are currently loaded in User bank.

2. 10'S HOLD

Quicker selection of sounds

If Arrangement Select has been set to 8key on page 2 in Global mode (☞Reference Guide P.5-9), and this key is pressed when you select arrangements or programs, the first digit of the arrangement or program will remain fixed. This is convenient when you wish to select other programs with the same 10's place as the current program.

For example, suppose that arrangement A12 is currently selected and that you want to select A16. Normally you would need to press the ARRANGEMENT NUMBER keys 1 and then 6 in order to select A16.

However if the 10's HOLD key has been pressed, you only need to press 6 in order to switch to A16, or 8 to switch to A18 (i.e., you don't need to press 1 to specify the 10's place).

⚠ If you press a BANK key to change the bank, the 10's HOLD LED will go out, and this function will automatically be turned off.

[14] ARRANGEMENT SELECT

PROGRAM SELECT

Selecting an Arrangement or Program

1. Use these buttons to select the bank and number of an arrangement or program.

There are two ways to select an arrangement or program. Select one of these two methods on page 2 in Global mode.
☞Reference Guide P.5-9 "Arrangement Select"

i) Pressing a key corresponding to the arrangement you wish to select:

[If Arrangement Select has been set to 32key]

Find the name of the arrangement you wish to select printed on the *i5M* front panel or on the overlay sheet, and press the corresponding key to select it.

You cannot select arrangements from any bank (Bank A and B) other than the User bank.

To select a program by this method, specify the track for the program using the Volume/Mute key, then select a program bank and a program number using the TEMPO/VALUE DOWN/UP keys.

If this method has been selected on page 2 in Global mode, select one of the included overlay sheets that corresponds to the arrangements loaded from the disk to the User bank, and place the sheet on the panel.

■ An example of overlay sheets used to specify arrangements

The factory default arrangements (and arrangements loaded as presets, ☞Reference Guide P.5-11) correspond to the names printed on the *i5M* panel.

The panel and overlay sheets have two rows of arrangements printed.

Before selecting arrangements U11-U48, first press the GROUP 1 key to turn on the GROUP 1 LED.

Before selecting arrangements U51-U88, first press the GROUP 2 key to turn on the GROUP 2 LED.
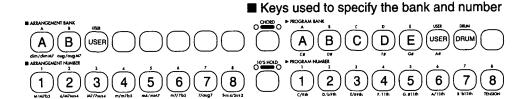
Then, press a desired arrangement name key to select the arrangement.

ii) Specifying the bank and the number of each arrangement or program

[If Arrangement Select has been set to 8key]

If you have selected this method on page 2 in Global mode, place the included overlay sheet (on which the arrangement and program banks and numbers are printed) on the panel.

In this method, you need to press the numeric keys for the bank and two digits of the arrangements. (If you select arrangements from the same bank, and/or if you use the 10's HOLD key, you do not have to press the keys many times.)

■ Keys used to specify the bank and number

Whether selecting arrangements or programs, first press a BANK key to specify the bank. Next use the NUMBER keys to specify the 10's and then the 1's place. The arrangement or program will not change if you press only a BANK key or a 10's place NUMBER key. The number will change only when you specify the 1's place.

If you are selecting a different number in the same bank, there is no need to press the BANK key again. Simply press a NUMBER key for the 10's and the 1's place.

For example, suppose that arrangement A12 is currently selected and you wish to select B18.
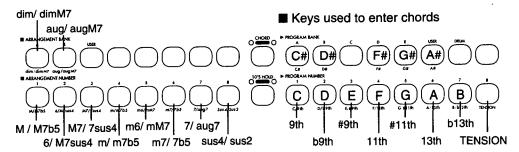
First press the ARRANGEMENT BANK B key, and next press the AR-RANGEMENT NUMBER keys 1 and then 8 to select B18.

* If you wish to select a different arrangement or program of the same 10's place, it is convenient to press the 10's HOLD key so that you can immediately switch to another arrangement or program by simply pressing the 1's place.

2. **During arrangement play or while recording a backing sequence, you can turn on the CHORD key and use these keys to specify the root, type and tension of the chord. The root, type and tension are printed in green below each of these keys.**

Selecting a chord

However, you can use this function only when Arrangement Select has been set to 8key in Global mode.

☞Reference Guide P.5-9 "Arrangement Select"

After setting Arrangement Select, place the included overlay sheet (on which the arrangement/program banks and numbers are printed) on the panel.

■ Keys used to enter chords

The root, type and tension of the available chords are printed below these keys.

Specify the chord type using the ARRANGEMENT BANK keys and the ARRANGEMENT NUMBER keys.

Two types of chords are assigned to each key. Pressing one of these keys will specify the chord indicated on the left side of the key.

Pressing the same key again will specify the chord indicated on the right side of the key. Pressing this key repeatedly will toggle between these two types of chords.

Pressing one of these keys while holding down the TENSION key (PROGRAM NUMBER 8) will specify the chord indicated on the right side of the key.

In this case, these two will alternate each time you press the key. Your selection will appear in the LCD.

Selecting a root

Specify the chord root using the PROGRAM BANK keys and the PROGRAM NUMBER keys 1-7. Your section will appear in the LCD.

Specify the chord bass

This chord base is specified using the PROGRAM BANK and PROGRAM NUMBER keys 1-7 while pressing the chord key.

Holding down PROGRAM NUMBER 8 key and pressing a chord key will specify the tension. The selection will appear in the LCD.

Pressing the PROGRAM NUMBER 8 key will allow you to specify the tension using PROGRAM NUMBER keys 1-7. Your selection will appear in the LCD.

The types of tension that can be specified will depend on the chosen chord. For details refer to Appendix C "Recoginizd Chords" in the Reference Guide.

Enter the note data instead of using a keyboard

3. **You can use these keys like a keyboard to enter note data during step recording in Backing Sequence mode.**

■ Keys used to enter note data
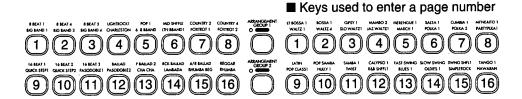
Seven keys on the left and eight keys on the right from the center on the bottom row correspond to fifteen white keys on the keyboard. From left, each key corresponds to note C, D, E, F, G, A, B, and C for two octaves. In the same way, five keys on the left and six keys on the right from the center on the upper row correspond to two-octaves of black keys on the keyboard. You can change the note range using the OCTAVE UP/DOWN keys.

Each time you press these keys to enter note data, the *i5M* will produce the sound of programs assigned to the KBD track as if it were a keyboard instrument. Some notes may not be heard depending on the split point and KBD track mute settings, which does not affect data recorded.

4. If you know the page number of a particular screen you wish to select in a certain mode, you can specify the page number to have that page shown immediately.

Selecting a page

■ Keys used to enter a page number

8 BEAT 1 BIG BAND 1	8 BEAT 4 BIG BAND 3	8 BEAT 5 BIG BAND 4	LIGHTROCK1 CHARLESTON	POP 1 6 8 BAND	MID SHFFLE LTN BRAND1	COUNTRY 2 FOXTROT 1	COUNTRY 4 FOXTROT 2	ARRANGEMENT GROUP 1	LT BOSSA 1 WALTZ 1	BOSSA 1 WALTZ 4	GIPSY 1 SLO WALTZ1	MAMBO 2 JAZ WALTZ1	MERENGUE 1 MARCH 1	SALSA 1 POLKA 1	CUMBIA 1 POLKA 2	MFNEATTO 1 PARTYPLKA1
①	②	③	④	⑤	⑥	⑦	⑧	○	①	②	③	④	⑤	⑥	⑦	⑧

16 BEAT 1 QUICK STEP1	16 BEAT 2 QUICK STEP2	16 BEAT 3 PASODOBLE1	BALLAD PASODOBLE2	P BALLAD 2 CHA CHA	RCK BALLAD LAMBADA	6/8 BALLAD RHUMBA BEG	REGGAE RHUMBA	ARRANGEMENT GROUP 2	LATIN POP CLASS1	POP SAMBA HULLY 1	SAMBA 1 TWIST	CALYPSO 1 R&B SHFFL1	FAST SWING BLUES 1	SLOW SWING OLDIES 1	SWNG SHFL1 SIMPLEROCK	TANGO 1 HAWAIIAN
⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	○	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯

Press the mode key and the ARRANGEMENT SELECT key or PROGRAM SELECT key that corresponds to the page number simultaneously to display a desired page immediately.

Refer to the explanation of each mode in the Reference Guide for information about each mode page.

3. What can the *i5M* do?

This section is a step by step introduction to the basic capabilities of the *i5M* for those who are using it for the first time.

You can control the *i5M* from the connected MIDI devices, such as a music synthesizer or a computer that is equipped with MIDI OUT connectors. The *i5M* can produce various sounds, chords, and accompaniments by playing or sending music data from these connected devices. From the connected MIDI devices, you can also control the interactive functions of the *i5M* that will change the accompaniment in real-time according to your performance or music data.

Even if we exclude computers and other peripherals, there are many types of musical instruments that have MIDI functions. Among the most popular types of instruments are keyboard instruments, such as music synthesizers, electronic pianos, and MIDI master keyboards. These keyboard instruments are likely to be connected to a personal computer, a sound module, or other MIDI devices in your MIDI system.

This User's Guide also describes many examples in which the *i5M* is connected to a MIDI keyboard. Of course, you can connect the *i5M* to various MIDI devices other than a MIDI keyboard, in which case you can also achieve a unique and effective interactive performance, depending on the type of devices you connect and how you play those devices.

Connect the MIDI OUT connector of your MIDI instrument to the *i5M* MIDI IN connector (MIDI IN1) using a MIDI cable, then turn on the power to both instruments. Open this manual beside your *i5M* and try out the operations as you read each page.

Don't worry if the LCD doesn't match

The numbers or program names that appear in the LCD of the *i5M* that you are actually operating may differ somewhat from what is printed in this manual. This is mainly dependent on how your *i5M* has been used, and you should continue your operations without worrying about this.

If you get stuck

If you get stuck and you do not know what to do, press the red EXIT key located at lower right of the LCD. Or, press the START/STOP key to make the START/STOP key LED light only in green. The place you return to will depend on the current situation, but at least you will be able to continue operations.
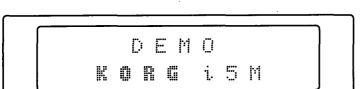
In this chapter, there are no operations for which you need to make "careful decisions" before execution. So, let's go ahead and have some fun with the *i5M*.

1. First let's listen to the automatic playback of the *i5M*.

Demo

You can hear the demonstration in any mode. Initially, set the master volume to a setting of 1 or 2. When playback begins, adjust the volume to an appropriate level.

1. Press the DEMO key located in the upper left of the front panel.

→ **1. The DEMO LED will light red.**

→ **2. A display like the following will appear in the LCD.**

```
          D E M O
       K O R G   i 5 M
```

Starts demo playback

→ **3. The *i5M* demonstration playback will begin.**

In synchronization with the time signature of the song, the START/STOP LED will blink red on the first beat and green on other beats. When the automatic playback reaches the end of the song, it will return to the beginning and continue playing.

2. To stop automatic playback, press the DEMO key once again.

Demo playback will also stop if you press the START/STOP key or any one of the mode keys.

Stops demo playback

Song Play
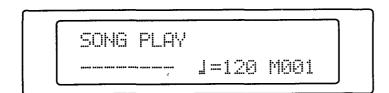
The *i5M* is able to load Standard MIDI File (SMF) format song data directly from a floppy disk and play it back.
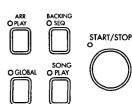
If you have a SMF format data disk, insert it into the *i5M* and you can listen to the sequence.

1. Insert the floppy disk containing SMF data into the *i5M* disk drive.

2. The *i5M* will enter SONG PLAY mode.

The SONG PLAY LED will light red to indicate that the *i5M* is in Song Play Mode. If the *i5M* is not in Song Play Mode, press the SONG PLAY key located in the upper left of the front panel.

→ **1. The SONG PLAY LED will light red.**

→ **2. The following display appears in the LCD.**

```
   SONG PLAY
   ------------   ♩=120 M001
```

TEMPO/VALUE
DOWN   UP

Selects a song

3. Press the TEMPO VALUE UP or DOWN key located below the LCD.

→ **1. The *i5M* will read the names of the data on the disk.**

→ **2. When the names have been read, the song names (filenames) on the disk will appear in the LCD.**

You can step through the song names by pressing the UP key.

START/STOP
o

Starts playback

4. When the name of the song that you wish to play appears, press the START/STOP key located in the center of the front panel.

(If the song data is in SMF format 1)
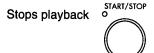
→ **1. The START/STOP LED will rapidly blink red, and the data of the selected song will be loaded into the *i5M*.**

→ **2. When the data has been loaded, playback will begin.**

(If the song data is in SMF format 0)

→ **The START/STOP LED will blink in time to the time signature of the song, red on the first beat, and green on other beats.**

You can adjust the tempo. ☞P.2-8 "TAP TEMPO", P.2-11"TEMPO/VALUE"

You can adjust the volume of the instrument assigned to each channel. ☞P.2-4 "VOLUME/MUTE"

START/STOP
Stops playback o

5. To stop the automatic playback press the START/STOP key.

2. Play the connected MIDI instrument and try out the sounds.
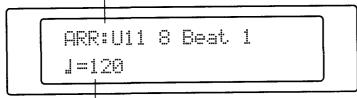
The *i5M* has a variety of functions that allow you to create songs or perform automatic playback, but you can also enjoy playing it as a conventional sound module. Start by playing the connected MIDI keyboard to try out the sounds.

1. Enter ARRANGEMENT PLAY mode

The *i5M* is in Arrangement Play Mode if the ARR PLAY LED is lit red.

If you are not in Arrangement Play Mode, press the ARR PLAY key located in the upper left of the front panel.

→ **1. The ARR PLAY LED will light red.**

→ **2. A display like the following will appear.**

(a) The number and name of the arrangement that is currently selected

```
ARR:U11 8 Beat 1
♩=120
```

The tempo of the currently selected arrangement
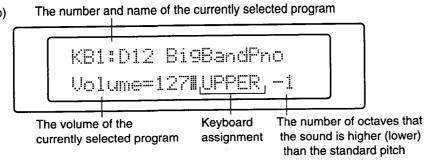
2. Play the connected keyboard and you will hear a sound (program) assigned to the KBD timbre of the current arrangement.

Select a different sound

Selecting a program

Here's how to temporarily change the sound that is heard when you play the connected MIDI keyboard.

By changing the program number, you can change the sound.

1. Press the KBD 1/UPPER key on the panel.

→ **The LCD will show the following display.**

(b) The number and name of the currently selected program

```
KB1:D12 BigBandPro
Volume=127⦀UPPER⦀ -1
```

The volume of the currently selected program | Keyboard assignment | The number of octaves that the sound is higher (lower) than the standard pitch

If you do not carry out any operation, this display will return to the previous display (a) approximately seven seconds later.

2. Press the TEMPO/VALUE DOWN or UP key.

→ **The program number and title on the display will change one by one.**

3. Play the connected MIDI keyboard one again.

You will notice that the sound is different from before.

Low notes don't sound

As you play the instrument connected to the *i5M* and try out various sounds, you will notice that there is an area in the lower note range (left hand side on the keyboard) that does not produce sound when it is played.

This area will not produce sound when you play it, but is instead used for Chord Scanning.

The width of this area depends on the selected arrangement. For some arrangements the entire note range will produce sound, and for other arrangements the lower and higher ranges will produce different sounds.

You can set these ranges to be suitable for your own playing.

SPLIT
POINT
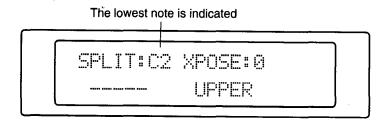
1. Press and hold the SPLIT POINT key located just left of the center of the front panel.

→ **As long as you continue holding the key, the following display will appear.**

```
SPLIT:C4 XPOSE:0

_____     UPPER
```

With this screen displayed, if you play a note on the connected instrument and then release the SPLIT POINT key, the note range below the note you just played will no longer produce sound.

2. While continuing to hold down the SPLINT POINT key, press the lowest note on the connected instrument.

→ **The display will change as follows.**

The lowest note is indicated

```
SPLIT:C2 XPOSE:0

_____     UPPER
```

3. Release the SPLIT POINT key and play the keyboard once again.

Notice that this time, the entire note range will sound.

☞P.2-6 "SPLIT POINT"

Transpose to an easier pitch for playing or singing
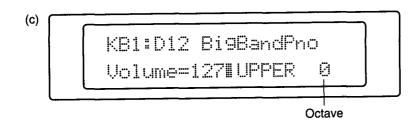
The *i5M* allows you to make semitone or octave adjustments to the pitch produced by playing the connected keyboard, and by the automatic accompaniment.

When playing a difficult song that has many notes on the black keys of the keyboard, or a song that is too low or too high for a singer or another instrument to accompany, you can change the pitch to play the song in an easier key.

1. Press the OCTAVE UP key

→ 1. **As long as you continue pressing the key, the following type of display will appear.**

(c)

```
KB1:D12 BigBandPno
Volume=127∎UPPER   0
```

Octave

→ 2. **At the same time, the pitch of the entire *i5M* will become an octave higher.**

The LCD will return to the previous display (a) if no keys are pressed for approximately 7 seconds.

If you repeatedly press the OCTAVE UP or OCTAVE DOWN keys from the (c) display, you will notice that the octave setting

+2 / +1 / 0 / -1 / -2
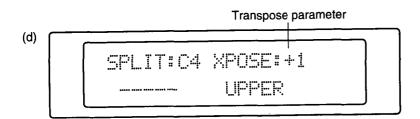
goes up or down, and the pitch changes accordingly.

2. Press the TRANSPOSE +1 key.

→ **As long as you continue pressing the key, the following type of display will appear.**

Transpose parameter

(d)

```
SPLIT:C4 XPOSE:+1
─────────    UPPER
```

→ 2. **At the same time, the pitch of the entire *i5M* will become a semitone higher.**

The LCD will return to the previous display (a) if no keys are pressed for approximately 7 seconds.
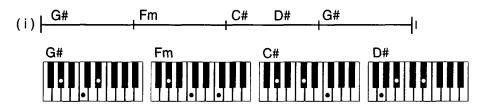
If you repeatedly press the TRANSPOSE+1 or TRANSPOSE-1 keys from the (d) display, you will notice that the transpose setting

XPOSE: +1 / XPOSE 0 / XPOSE -1

goes up or down by semitones, and the pitch changes accordingly.
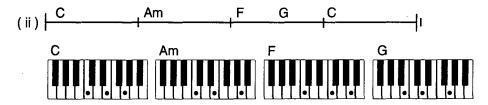
Example 1)

This song uses the following chords, and you can see that each chord contains many notes on the black keys.

(i) G#   Fm   C#   D#   G#

G#   Fm   C#   D#

You can use the Transpose function to play this in an easier key. For example, if you raise the entire song four semitone steps, the chords will be as follows.

(ii) C   Am   F   G   C

C   Am   F   G
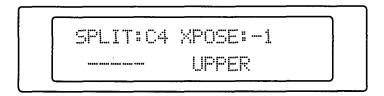
This is much easier to play, but of course the pitch will be higher than the original song.

In this case, all you need to do is to lower the pitch produced by the *i5M* by four semitone steps.

TRANSPOSE -1

1. Press the TRANSPOSE –1 key once.


```
SPLIT:C4  XPOSE:-1
----------      UPPER
```

TRANSPOSE -1
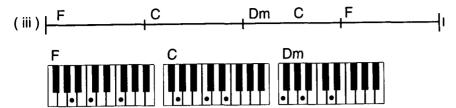
2. Press the TRANSPOSE –1 key three more times.


```
SPLIT:C4  XPOSE:-4
----------      UPPER
```
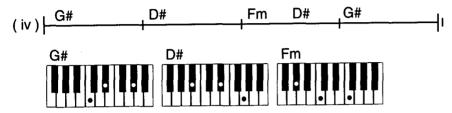
The pitch of the entire *i5M* is now four semitones lower than normal.

If you now play a chord as in (ii), it will be sounded at the pitch of (i).

3-7

Example 2)

What should you do if this song is too low to sing easily, and you want to raise it three semitones so that it will be easier to sing?

(iii) | F | C | Dm   C | F ||

F   C   Dm
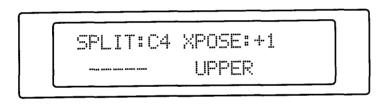
If this song were raised three semitones, the chords would be as follows.

(iv) | G# | D# | Fm   D# | G# ||

G#   D#   Fm
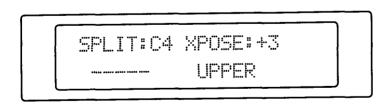
These chords look a bit difficult to play.

In this case, use the Transpose function to raise the pitch produced by the *i5M* by three semitones.

1. Press the TRANSPOSE +1 key once.

```
SPLIT:C4  XPOSE:+1
————————      UPPER
```

2. Press the TRANSPOSE +1 key two more times.

```
SPLIT:C4  XPOSE:+3
————————      UPPER
```

The pitch of the entire *i5M* is now three semitones higher than normal.

If you now play a chord as in (iii), it will be sounded at the pitch of (iv).

3. Now let's try playing and providing your own accompaniment.

You will find that it is actually quite easy to provide your own accompaniment.

While listening to the automatic playback (Arrangement Play) of the *i5M*, you can play the connected instrument to produce sound at the same time.

You can also make the Arrangement Play change to follow your playing.

Selecting an arrangement

1. First select an arrangement.

Press any ARRANGEMENT SELECT key.

→ **A display like the following will appear in the LCD.**

The number and name of the selected arrangement

```
ARR:U12 8 Beat 4
J=112
```

The tempo of the selected arrangement

Start   START/STOP
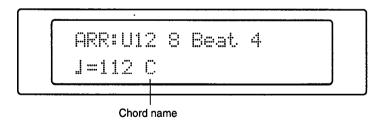
2. Press the START/STOP key located in the center of the front panel.

→ **1. Rhythm playback will begin.**

→ **2. In synchronization to the time signature of the style, the START/STOP LED will blink red on the first beat and green on other beats.**

You can also adjust the tempo. ☞P.2-8 "TAP TEMPO", P.2-11 "TEMPO/ VALUE"

Controlling the accompaniment

3. Play notes in the lower range on the connected instrument.

→ **1. The bass and accompaniment will begin sounding.**

→ **2. The LCD will show the chord name.**

```
ARR:U12 8 Beat 4
J=112 C
```

Chord name

The bass and accompaniment that began when you played notes in the lower range are analyzed by the *i5M* to determine what chord they are, and the accompaniment of the current arrangement is played automatically based on these chords.

The LCD shown above is an example where the *i5M* recognized the notes as C major.

☞P.2-2 "CHORD SCANNING"

The chords that the *i5M* will detect when you play the keyboard in various ways are summarized in the Reference Guide, Appendix C "Recognized Chords". Refer to this section. ☞Reference Guide "Appendix C"

Even if you stop playing the connected instrument, the chord and bass note will continue sounding until you play another note. ☞P.2-4 "CHORD·HOLD"

4. While playing various chords in the lower range, you can play melodically in the higher range.

You can select different programs.
☞P.2-13"ARRANGEMENT SELECT/PROGRAM SELECT"

You can adjust the volume of each sound.
☞P.2-4

You can use the front panel keys to specify the type of chord.
☞P.2-14"Selecting a chord"

This should give you an idea of the enjoyable possibilities of playing the *i5M* while it assists you with the accompaniment.

The chords played in the lower range can be abbreviated; for example by playing just one note for a major chord, or two notes for a minor or sus4 chord, etc. It is not necessary to play all the notes of a chord.

Examples of chord abbreviations are given in the Reference Guide, Appendix C "Recognized Chords". ☞Reference Guide "Appendix C"

5. To stop the performance, press the START/STOP key once again.

Stop

START/STOP
○

Synchro Start

Instead of pressing the START/STOP button, you can make arrangement play start the moment that you play a note on the connected instrument.

1. When arrangement play is stopped, press the SYNCHRO START/STOP button located in the lower right of the front panel.

→ The SYNCHRO START/STOP LED will light.

SYNCHRO
○START/STOP

2. Play a chord in the lower range of the instrument connected to the i5M.

→ 1. The moment you play the connected instrument, arrangement play will begin.

→ 2. When play begins, the SYNCHRO START/STOP LED will go out.

Synchro Stop

You can make the arrangement play stop when you stop playing the instrument connected to the *i5M*.

1. Press the SYNCHRO START/STOP key while the arrangement play is continuing.

→ The SYNCHRO START/STOP LED will light, and the music will stop.

SYNCHRO
○START/STOP

2. While the SYNCHRO START/STOP LED is lit, play a chord in the lower range of the connected instrument.

→ Arrangement play will start according to the chord that you press.

3. Take your hand off the left hand keyboard area.

→ 1. Play will stop immediately.

→ 2. The SYNCHRO START/STOP LED will continue to be lit.

Now if you play notes in the lower range of the connected instrument, the arrangement play will begin again (Synchro Start). If you stop playing, the arrangement play will stop again immediately (Synchro Stop).

4. To cancel Synchro Stop, press the SYNCHRO START/STOP key once again.

→ The SYNCHRO START/STOP LED will go out.

SYNCHRO
○START/STOP

Now you can use the START/STOP key to start/stop arrangement play as usual.

Tap Tempo

☞P.2-8

Automatic playback at a tapped tempo

The playback tempo of the arrangement play can be made faster or slower using the TEMPO/VALUE UP and DOWN keys located just below the LCD. However an easier and more direct way is to set the playback tempo by the speed at which you tap the TAP TEMPO key.
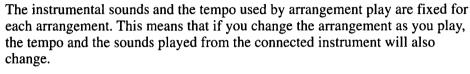
Instead of using the TAP TEMPO key, you can also set the tempo by the speed at which you press an assignable pedal/switch or an EC5 external controller. ☞Reference Guide P.5-20 "PEDAL FUNCTION"

Keyboard Lock

☞P.2-7

Prevents tempo and the sound from changing

The instrumental sounds and the tempo used by arrangement play are fixed for each arrangement. This means that if you change the arrangement as you play, the tempo and the sounds played from the connected instrument will also change.

If you want to change arrangements as you play without changing the tempo or the keyboard sound, press the KBD LOCK key to make the KBD LOCK LED light.

4. Now let's record your own playing on the *i5M*.

The *i5M* allows you to record your playing (including the accompaniment, of course) just as if you were using a tape recorder. And it provides many functions that would not be possible with a tape recorder.
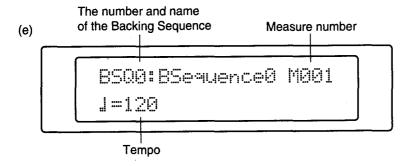
Recording a performance "tape-recorder style"

1. Enter BACKING SEQ (Backing Sequence) mode.

The *i5M* is in Backing Sequence mode if the BACKING SEQ LED is lit. If the *i5M* is not in Backing Sequence mode, press the BACKING SEQ key located in the upper left of the panel.

BACKING
O SEQ
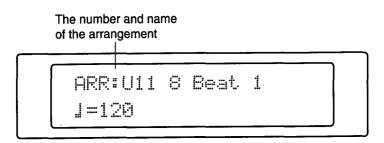
→ 1. **The BACKING SEQ LED will light red.**

→ 2. **A display like the following will appear in the LCD.**

(e)   The number and name
       of the Backing Sequence   Measure number

```
BS00:BSequence0 M001
J=120
```

Tempo
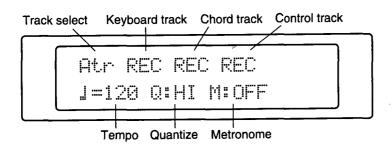
2. Use the ARRANGEMENT SELECT key on the panel to select the arrangement that you wish to use.

Selecting an arrangement

→ **The LCD will change, allowing you to select the arrangement.**

The number and name
of the arrangement

```
ARR:U11 8 Beat 1
J=120
```

3. Press the red BACKING SEQ.REC key located in the lower right of the panel.

Preparing to record

BACKING
O SEQ REC

→ **The BACKING SEQ.REC LED will light.**

→ **A display like the following will appear in the LCD.**

Track select   Keyboard track   Chord track   Control track

```
Atr REC REC REC
J=120 Q:HI M:OFF
```

Tempo   Quantize   Metronome

START/STOP
○

Begin recording

4. Now we are ready to begin recording. Press the START/STOP key.

→ **A display like the following will appear in the LCD.**

```
BS00:BSequence0 M-2
J=120
```

→ **After the metronome sounds a two-measure count-in, the arrangement will start. Go ahead and play. Your playing will be recorded just as it is.**

→ **The START/STOP LED will blink in the time signature of the arrangement, red on the first beat and green on the other beats.**

START/STOP
○

Stop recording

5. When you want to stop recording, press the START/STOP key once again.

→ **The BACKING SEQ.REC LED will go out.**

START/STOP
○

→ **The measure number will return to 001.**

Playback

6. Now you can listen to the performance that you just recorded.

All you have to do is press the START/STOP key once again, and the recorded performance will be played back from the beginning. When playback reaches the end, it will stop automatically and the measure number will return to 001.

7. If you decide to re-record, press the BACKING SEQ.REC key once again and you will return to making preparations for recording.

Then go to step 5 and continue to re-record as many times as you wish.

If you want to save your performance ...

The performance that you just recorded in Backing Sequence mode will be lost if you turn the *i5M* power off. If you want to keep the performance, you must save the data on a floppy disk. ☞Reference Guide P.5-7 "SAVE"

5. How to complete and improve your musical performance.

Musical data recorded on the *i5M* can be edited later as much as you like.

You can even make extremely fine changes in the pitch or timing of an individual note without having to re-play the song.
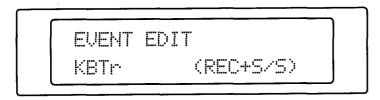
By using functions such as these, you can polish your recording.

It may be difficult to master these complex functions all at once. First we will take a look at how each of the notes you record is stored in memory.

More detailed editing is possible
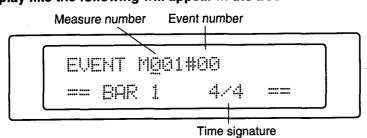
1. In Backing Sequence mode, record musical data into the *i5M*.
☞P.3-12

Of course if the data that you recorded in step 3 is still in memory, this can be used.

Looking at an event

2. Hold down the BACKING SEQ key and press the COUNTRY4/ FOXROT key.

→ A display like the following will appear in the LCD.
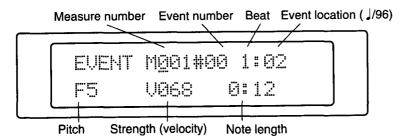
BACKING
O SEQ + COUNTRY 4
FOXTROT 2

```
EVENT EDIT
KBTr        (REC+S/S)
```

3. Press the BACKING SEQ REC key and then press the START/ STOP key.

→ A display like the following will appear in the LCD.

START/STOP ← BACKING
O SEQ REC

Measure number   Event number

```
EVENT M001#00
== BAR 1      4/4  ==
```

Time signature

BAR 1 is a symbol meaning that this is where the first measure begins.

4. Press the TEMPO/VALUE UP key once.

→ A display like the following will appear in the LCD.

TEMPO/VALUE
UP

Measure number   Event number   Beat   Event location (♩/96)

```
EVENT M001#00 1:02
F5     V068     0:12
```

Pitch   Strength (velocity)   Note length

This is the data of the first-recorded note of your performance.
Each note is recorded in this form, even for notes such as chords that were played simultaneously.
The various values that appear in this display can be changed to make fine adjustments to the pitch, length, and strength of each note.
For details on modifying this data, refer to Reference Guide P.2-22 "Event Edit".

6. You can input notes one by one to create musical data.

Entering notes one by one

Instead of playing notes on the connected instrument to record them, you can input notes one by one by specifying their pitch, length, and strength.

Of course this takes more time than playing the instrument directly, but it also means that people who are not accustomed to the instrument can accurately create musical data without worrying about inaccurate timing or wrong notes.

BACKING
O SEQ
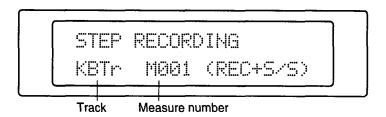
1. Enter BACKING SEQ (Backing Sequence) mode.

Selecting an arrangement

2. Use the ARRANGEMENT SELECT key located on the front panel to select the arrangement that you wish to use for your playing.

* Up to this point, the procedure is the same as 3. Now let's record your own playing on the *i5M*.

PAGE
+
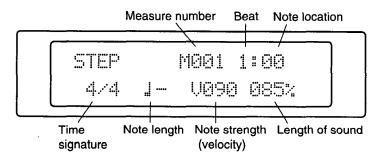
3. Press the PAGE + key to select the Step Recording page.
→ **A display like the following will appear in the LCD.**

```
┌─────────────────────────────┐
│  ┌───────────────────────┐  │
│  │  STEP  RECORDING      │  │
│  │  KBTr  M001 (REC+S/S) │  │
│  └────┬────────┬─────────┘  │
└───────┼────────┼────────────┘
      Track   Measure number
```

Inputting data O BACKING SEQ REC

4. Press the BACKING SEQ REC key and then press the START/ STOP key.
→ **A display like the following will appear in the LCD.**

START/STOP
O

```
                    Measure number   Beat   Note location
                          \           |      /
┌─────────────────────────────────────────────┐
│  ┌───────────────────────────────────────┐  │
│  │  STEP        M001  1:00               │  │
│  │  4/4   ♩─   U090  085%                │  │
│  └───┬──────┬───────┬──────┬────────────┘  │
└──────┼──────┼───────┼──────┼───────────────┘
     Time   Note length  Note strength  Length of sound
   signature          (velocity)
```
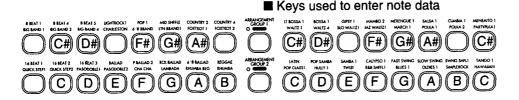
This LCD indicates that you are now at the beginning of the first beat of the first measure, and that you can input a quarter note with a velocity of 90 that will sound for 85% of the length of a quarter note.

5. Now let's enter the first event.
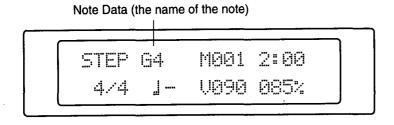
Play a note or notes on the connected instrument. You can play either a single note or a chord, as long as the note(s) are played in a single action.

You can also enter notes using the ARRANGEMENT SELECT keys on the *i5M* front panel. ☞P.2-15 Reference Guide P.2-11

■ Keys used to enter note data

You can change the note range using the OCTAVE key. ☞P.2-7 "Octave"

Use the TRANSPOSE key to transpose notes by semitone steps. ☞P2-7 "Transpose"

→ **The LCD will now be similar to the following display.**

Note Data (the name of the note)


```
STEP G4      M001 2:00
4/4   ♩ -    V090 085%
```

The name of the note you just played (or if you played a chord, the name of one of the notes) is displayed. The display above illustrates what you see when the G4 note is played.
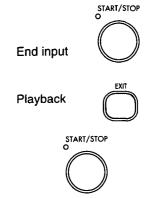
Notice also that the beat number has advanced by one. You are now ready to input the next note in beat 2.

6. Continue inputting notes in the same way. Notice that each time you press the keyboard, the beat number will advance by one.

Although, this will depend on the time signature of the arrangement that you selected. This example is in 4/4 time, meaning that one measure will contain 4 beats. This means that after you enter the 4th beat, the measure number will advance by one, and you will be at the first beat of the next measure.

7. When you have entered as many notes as you want, press the STOP/START key.

End input

START/STOP
○

8. Now you can playback what you entered.

Playback

EXIT

Press the EXIT key.

→ **The LCD will return to the display of P.3-12 (e).**

START/STOP
○

Press the START/STOP key once again, and playback will start from the beginning.

You can input more complex musical data

When playback reaches the end, it will automatically stop, and the measure number will return to 001.

In this example, all the notes you entered were quarter notes, and the velocities and note lengths were all the same.

Of course, you are free to change the values of settings such as note length and velocity to different values as you input each note. This allows you to create musical data with changes in dynamics and rhythm that are as complex as you wish.

In the same easy way as when using Arrangement Play, you can input bass and accompaniment chords into the Chord track.

For details on these settings, refer to Reference Guide P.2-10 "Step Recording".

7. You can have the *i5M* automatically add an accompaniment while you play.

Interactive Composition

When the *i5M*'s Interactive Composition function is used, you can play a melody of your own on the keyboard, and the *i5M* will analyze the melody, automatically assign chords, and play a bass and accompaniment based on those chords.

Simply play a melody to add an automatic accompaniment

1. Enter ARR PLAY (Arrangement Play) mode.
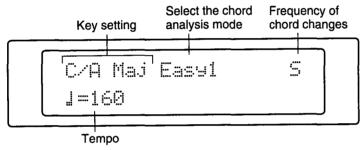
2. Before you begin playing, select an arrangement. It is also a good idea to set the tempo to a speed that is comfortable to you.

Select an arrangement

3. Press the INTERACTIVE COMP. key located in the upper left of the panel.

→ **The INTERACTIVE COMP. LED will light.**

→ **A display like the following will appear in the LCD.**

Key setting | Select the chord analysis mode | Frequency of chord changes

```
C/A Maj Easy1          S
J=160
```

Tempo

4. Press the START/STOP key located in the center of the panel.
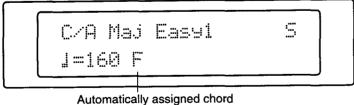
Start

→ **Arrangement play will begin.**

5. Play any desired melody in the high range of the connected instrument.

For now, play the melody using only the white keys.

The secret of helping the *i5M* to analyze your melody is to play the notes slightly shorter than usual (cleanly).

→ **Chords will automatically be assigned to your playing, and played as accompaniment and bass.**

→ **The LCD will display the chords assigned by the Interactive Composition function.**

```
C/A Maj Easy1          S
J=160 F
```

Automatically assigned chord

By specifying the musical style and the key, you can change the way in which chords are assigned. ☞P.6-2 "Key, Major/Minor"

You can select from several patterns to determine the tendency of the chords that are assigned. ☞P.6-2 "IC type"

By first recording your performance into the *i5M* and analyzing the melody later, you can assign chords that are more appropriate.
☞P.6-4"Backing sequence IC"

This completes your brief introductory tour of the *i5M*.

Now you can continue to read the various pages and sections referred to in this introduction, to become acquainted with the functions offered by the *i5M* and to learn the details of the various operations.

4. Basic concepts

1. Modes and Pages

What is a mode?

You have probably noticed that the term "mode" appears frequently in our explanation of the *i5M*.

If you consult a dictionary, you will find that the definition of the word "mode" includes meanings such as "form" or "way".

What is a mode?

On the *i5M*, the word "mode" is used to mean "a condition in which you can perform certain operations" or "a condition in which certain functions are active". More simply, it means "condition".

For example, Arrangement mode is the "condition" in which you can play melody and chords from the MIDI instrument connected to the *i5M*. Alternatively, Backing Sequence mode is the "condition" in which you can assemble your own songs or accompaniments by specifying instruments, pitches and note lengths. In addition, the Keyboard Assign function allows you to play different sounds in the low and high ranges of the connected instrument or to simultaneously play two sounds with a single note, and these "conditions" are respectively called "Split mode" and "Layer mode".

If the word "mode" is used without qualification, it refers to the four modes that are selected by pressing a mode key; **Arrangement Play Mode, Backing Sequence mode, Global Mode,** and **Song Play Mode.**

The LED located at the upper left of each mode key will light red, indicating that you are in that mode.

Entering a mode

Pressing a mode key to change to the specified mode (condition) is referred to as "entering" that mode.

Moving from a mode to a different mode (by pressing a different mode key, etc.) is referred to as "exiting" that mode.

What is a page?

Each of the *i5M*'s modes such as Arrangement Play, Backing Sequence, Song Play, and Global Mode contain a variety of functions.

These functions are organized into several LCD screen displays within each mode.

Each of these screen displays within a mode are referred to as a "display page".

If you wish to go to a specific function within a mode, you must first select the display page where that function appears. There are two ways to do this.

1. You can move successively through the pages by pressing one of the PAGE+ or PAGE- keys located at the lower right of the LCD.

Repeatedly press a PAGE key until the desired page appears.

2. If you know the location of the desired page in that mode, you can specify the page number to jump directly to a specific page in the mode.

What is a page?

Using the PAGE keys to change pages

Directly specifying the page number

■ Keys used to enter a page number

8 BEAT 1	8 BEAT 4	8 BEAT 5	LIGHTROCK1	POP 1	MID SHFFLE	COUNTRY 2	COUNTRY 4	ARRANGEMENT GROUP 1	LT BOSSA 1	BOSSA 1	GIPSY 1	MAMBO 2	MERENGUE 1	SALSA 1	CUMBIA 1	MENEAITO 1
BIG BAND 1	BIG BAND 3	BIG BAND 4	CHARLESTON	6 '8 BBAND	LTN BBAND1	FOXTROT 1	FOXTROT 2		WALTZ 1	WALTZ 4	SLO WALTZ1	JAZ WALTZ1	MARCH 1	POLKA 1	POLKA 2	PARTYPLKA 1
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	( )	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)

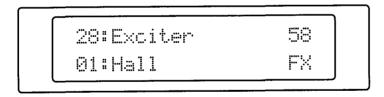|															
16 BEAT 1	16 BEAT 2	16 BEAT 3	BALLAD	P BALLAD 2	RCK BALLAD	6/8 BALLAD	REGGAE	ARRANGEMENT GROUP 2	LATIN	POP SAMBA	SAMBA 1	CALYPSO 1	FAST SWNG	SLOW SWNG	SWNG SHFL1	TANGO 1
QUICK STEP1	QUICK STEP2	PASODOBLE1	PASODOBLE2	CHA CHA	LAMBADA	RHUMBA BEG	RHUMBA		POP CLASS1	HULLY 1	TWIST	R&B SHFFL1	BLUES 1	OLDIES 1	SIMPLEROCK	HAWAIIAN
(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	( )	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)

To jump to a page, simultaneously press the key of that mode together with the ARRANGEMENT SELECT key or PROGRAM SELECT key that specifies the desired page.

When a certain page is displayed in the screen, that page is said to be "open".
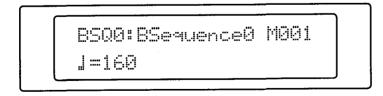
* As long as the *i5M*'s power is not turned off, the page number of the page displayed in a mode will be remembered for each mode even when you move to a different mode.

"Opening" a page

When you move to a different mode...

For example, suppose that page 6 of Arrangement Play Mode is displayed.

```
28:Exciter      58
01:Hall         FX
```
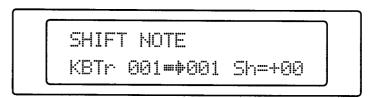
Press the BACKING SEQ. key to move to Backing Sequence Mode.

BACKING
O SEQ

```
BS00:BSequence0 M001
♩=160
```

COUNTRY 2
FOXTROT 1

BACKING
O SEQ

CUMBIA 1
POLKA 2
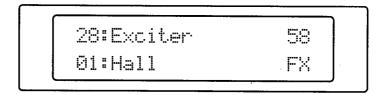
Open page 7 of Backing Sequence Mode.

```
SHIFT NOTE
KBTr 001=+001 Sh=+00
```

Now press the ARR PLAY key to return to Arrangement Play Mode once again.
Notice which page is displayed.

ARR
O PLAY

```
28:Exciter        58
01:Hall           FX
```
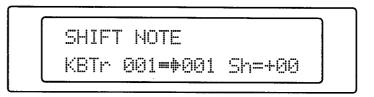
Page 6 is still displayed, just as it was before moving to Backing Sequence
mode.

Now return to Backing Sequence mode.

BACKING
O SEQ

```
SHIFT NOTE
KBTr 001=+001 Sh=+00
```
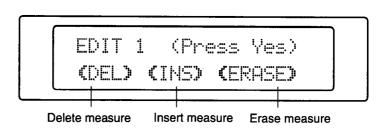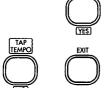
Notice that page 7 is still open. This is an example of how the page numbers in
each mode are preserved even when you move to another mode.

Returning instantly to the first page

* From any page of any mode, you can press the EXIT key located at the right of
the LCD to jump instantly to the first page of the mode. ☞P.2-11 "EXIT"

Sub-pages

Some pages include more pages that you can access. They are called "sub-pages".

CURSOR

```
EDIT 1  (Press Yes)
(DEL) (INS) (ERASE)
```

Delete measure　Insert measure　Erase measure

RESET

(YES)

TAP
TEMPO

EXIT

(NO)

The title of sub-pages appears in parenthesis on the display as shown in the
illustration above. To open a sub-page, move the cursor to the title of the sub-page
and press the RESET/[YES] key. Press the EXIT key or the TAP TEMPO/[NO] key
to go back to the previous page.

2. Styles/Arrangements/Programs

What is an arrangement?

The combination of a Style that is described later and two keyboard timbre settings (single, layer, split, etc.) is referred to as an Arrangement.

Arrangement

The *i5M* provides 64 arrangements in each of the three banks A, B, and USER.

Each arrangement has a variety of items that can be set, such as the program (the sound of an instrument), volume, pan, effect, tempo, and muting, etc. Of these arrangements, the 64 arrangements in the USER bank can be modified as you like, or replaced entirely by new settings loaded from a separately sold Sound/ Song Library floppy disk.

On the *i5M*, the musical ingredients used to put together songs and accompaniments are called "styles".

Styles

A style is a collection of musical patterns from many types of music from all around the world, past and present; from rock and pop to ethnic music.

Each style has four variations, two intros (introductions), two endings, and two fill-ins.

In other words, a style is not just a fragment of an accompaniment pattern or rhythm pattern; selecting a style provides you with a whole range of musical ingredients with which you can create an entire song.

In addition, styles can receive chord information from the MIDI instrument connected to the *i5M* and modify their accompaniment patterns to be most suitable for the current chord.

The variations, intros, fill-ins, and endings within each style are called style elements.

Style elements

Styles consist of a total of six playback tracks; drums (a standard type of drum set widely used in all types of popular music), percussion (all percussive instruments other than drums), bass (low-pitched instruments), and accompaniment 1, 2, and 3 (general accompaniment instruments).

Since these playback tracks provide the accompaniment, they are called backing tracks.

Backing tracks

What is a program?

Each of the various instrumental sounds that can be played on the *i5M* is called a program.

Program

The *i5M* has 64 programs in each of five banks A, B, C, D, and E, and 14 programs in bank Dr, providing a total of 334 programs.

Of these, the 64 programs in the USER bank Dr17 and Dr18 can be replaced by program data loaded from a separately sold disk, etc.

5. Watch the screen and operate the *i5M*

You can see that the panel of the *i5M* has a variety of keys used to add effects or create changes as you play. In addition to these functions, there are even more functions that can be called up in the LCD screen to make adjustments and settings.

Here's how to make settings or selections that appear in the screen.

1. Moving the cursor

What the cursor does

A single display page in the LCD often displays two or more items (numerical values, on/off settings, etc.) that can be seen.

In such cases, you will notice that a small horizontal bar (cursor) is blinking under one of the items.

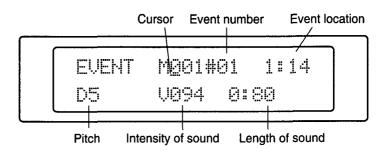The item indicated by this cursor is the item whose setting can currently be modified.

Moving the cursor

You can move the cursor from one item to another by pressing the cursor keys located in the center of the panel.

Pressing the ▶ cursor key will move the cursor from left to right.

Pressing the ◀ cursor key will move the cursor from right to left.

As an example, let's take a look at the display screen that lets you perform event editing in Backing Sequence mode.

Cursor   Event number   Event location

Pitch   Intensity of sound   Length of sound

This display screen contains five items that you can change.

Each time you press the cursor ▶ key, the cursor will move in the following order between the items in the screen;

M001#01 → 1:14 → D5 → V094 → 0:80 → M001#01 → ...

(event number→event location→pitch→intensity of sound→length of sound→event number ...)

Each time you press the cursor ◀ key, the cursor will move in the following order between the items in the screen;

M001#01 → 0:80 → V094 → D5 → 1:14 → M001:#01 → ...

(event number→length of sound→intensity of sound→pitch→event location→event number ...)

Move the cursor to the item that you wish to change, and press the TEMPO/ VALUE UP or DOWN key located below the LCD. Each time you press one of these keys, the setting of the item selected by the cursor will change successively. ☞P.5-3 "Adjusting "amount" or "speed""

For some items, you can change settings using keys other than the TEMPO/ VALUE keys, or using the keyboard. For these cases, refer to the explanations of each mode or display page.

In this way, you can change settings for the *i5M*'s functions by using the cursor to specify items that appear in the LCD.

In other words, **using the TEMPO/VALUE key allows you to set the value of the items to which the cursor can move on the LCD.**

2. Adjusting "amount" or "speed"

Setting/selecting values and items

Suppose that you want to make an adjustment to a value displayed in the LCD, for example to increase the volume of the drums just a bit, or to slow down the tempo of the automatic accompaniment a little.

Or you might want to choose one of several selections, such as selecting the effect you wish to use in the effect select page, or specifying the track that you wish to record in the recording page.
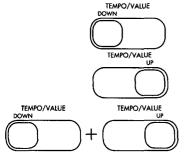
In such cases you will use the TEMPO/VALUE keys. The TEMPO/VALUE keys are used to adjust the playback tempo of the arrangement, or to modify the value indicated by the cursor in the screen.

Each time you press the DOWN key, the value of the selected item will decrease by 1. Or, the previous choice will be displayed successively.

Each time you press the UP key, the value of the selected item will increase by 1. Or, the next choice will be displayed successively.

If you simultaneously press both the DOWN and UP keys, the selected item will be reset to the original setting (the setting obtained when you first moved the cursor to the item).

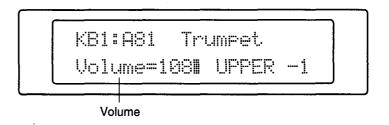(Some items, such as the Backing Sequence tempo, are not reset.)
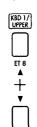
Adjusting the volume level

When playing an arrangement, backing sequence, or SMF song data, and you wish to adjust the volume for each track or channel, use the eight pairs of VOLUME/MUTE keys. These allow you to increase/decrease the volume of the corresponding track or channel, and are used in essentially the same way as the TEMPO/VALUE keys.

For example if you press the KB1 ▲ key, the following display will appear.

```
KB1:A81   Trumpet
Volume=108▋ UPPER -1
```

Volume

If you continue holding down the ▲ key, the Volume value will continue to increase, and the sound of KB1 will become louder.

If you press the ▼ key, the same display will appear. If you continue holding down the ▼ key, the Volume value will continue to decrease, and the sound of KB1 will become softer.

The operation of the VOLUME/MUTE keys differs from the TEMPO/VALUE keys in what happens when the two keys are pressed together. When the two TEMPO/VALUE keys are pressed simultaneously, the value is reset to its original setting. However when a pair of VOLUME/MUTE keys are pressed together, they will alternately mute or un-mute the corresponding track (or channel).

It is not only the TEMPO/VALUE keys or the VOLUME/MUTE keys that can be used to adjust or change settings. For example in Backing Sequence mode when specifying types of chords or notes, you can change settings faster by using the Style Element keys, the CHORD keys, or the keyboard. For details on these operations, refer to the explanations for each key in P.2-1 and following, and the explanations of each mode in the Reference Guide.

5-3

6. Interactive Composition

To "add chords"

Supposing that you knew nothing in particular about chords, how would you go about adding appropriate chords to a melody that you thought up?

There is a close connection between chords and melody. However there are no hard and fast rules that specify how this should be done.
It is true that there are many rules or forms that indicate for each musical genre or style what types of chords are applied to a given melody or what chords will follow certain chords. However it goes without saying that not all music is created according to such rules. Music is a free and creative thing.

There will of course be those who just want to have fun creating music without worrying about any strict requirement for originality. And there will also be those who want to be more purposeful in creating new music, and for these as well, it will be useful to experience these rules and forms in order to expand their own creative potential.

So what does the **Interactive Composition (IC)** function of the *i5M* do?
When you play a melody on the keyboard, this function will;

1. Analyze the melody, and according to the previously-selected style and patterns, determine chords that are "appropriate" for that melody.

2. Provide an automatic accompaniment to your melody using those chords.

This accompaniment can be played simultaneously as you play the melody on the MIDI instrument connected to the *i5M*, or you can use Backing Sequence mode to record a melody into the *i5M* and then play this back to add the automatic accompaniment. Even if you play the same melody, the chords that are determined for the melody may differ depending on whether they are being added while you play (**Real-time IC**) or being added to a recorded melody (**Backing Sequence IC**).

More "appropriate" chords will be added if you record the melody.

We have been speaking here about "appropriate" chords, this simply means that the Interactive Composition function of the *i5M* will analyze the melody based on conventional harmonizations and progressions, and determine "appropriate" chords. However as we mentioned above, not all music is created in this formal way.

This means that the chords determined by the *i5M* as "appropriate" may not necessarily be the "correct" chords for that song.
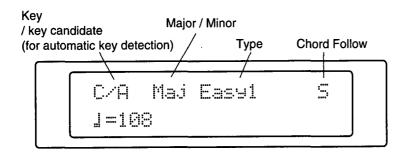
It is best to think of the Interactive Composition function of the *i5M* not as something that reproduces the correct chords of the original song, but rather as a function that provides "hints" as you create and harmonize your own song.

1. First let's look at the various settings you will use to take advantage of the Interactive Composition function.

In Arrangement Play mode, press the INTERACTIVE COMP. key located at the left side of the *i5M*'s front panel.

→ **1. The INTERACTIVE COMP. LED will light red.**

→ **2. The following display will appear.**

Key
/ key candidate   Major / Minor
(for automatic key detection)   .   Type   Chord Follow

```
┌─────────────────────────────────┐
│   C/A   Maj  Easy1          S    │
│   ♩=108                          │
└─────────────────────────────────┘
```

Key   [ANL, C/A, C#/A#, D/B, ... B/G#]

Specify the key of the song that you wish to play.

The major key is displayed at the left of the / (slash), and the minor key at the right of the slash.

If ANL is selected, the automatic key detect function will operate. If you do not know the key, you can use automatic key detection to detect the key.
☞P.6-4 "Automatic Key Detect function"

Major/Minor   [Maj, Mm, min, mM]

Specify whether the song you wish to play is in major or minor.

Maj   a major song. Most of the chords will be major.
Mm   a major song. Some minor chords will be added.
min   a minor song. Most of the chords will be minor.
mM   a minor song. Some major chords will be added.

IC type   [Easy 1-2, General 1-4, Special 1-2]

When using the Interactive Composition function to add chords, you can select the tendency of the chords that will be produced.

Easy .... The most conventional and the easiest chords will be added. 2 tends to produce somewhat more complex chords than 1.

General ...... Average chords will be added. The tendency differs slightly as you change from 1 to 4. Try them each out and use the one most suited to your song.

Special .... This is useful for adding distinctive chords. 1 and 2 will produce somewhat different chords depending on the major/minor settings. Use the one most suited to your song.

Chord Follow   [S, F]

This setting determines the frequency with which chords applied to the melody by the Interactive Composition function will change.

Normally there will be no problems with a setting of S. If you are playing a song with many notes at a slow tempo, set this to F.

S ...... Chords will be assigned at the beginning of each measure. i.e., one type of chord will assigned to one measure.

F ...... Chords will be assigned at the beginning and middle of each measure. i.e., up to 2 types of chords will be assigned to one measure.

Adding chords to the melody played

2. Now let's try using the Interactive Composition function to add chords to a melody that you play

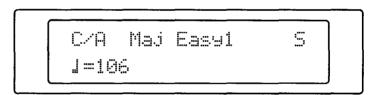**Specify an arrangement**

● Realtime IC

i) First select an arrangement in Arrangement Play mode.

Use the ARRANGEMENT BANK keys and the ARRANGEMENT NUMBER keys to select an arrangement appropriate for the melody that you are going to play.

INTERACTIVE
O COMP.

ii) Press the INTERACTIVE COMP. key located at the upper left of the front panel.

→ **The INTERACTIVE COMP. LED will light.**

→ **A display such as the following will appear.**

```
    C/A   MaJ  Easy1          S
    J=106
```

iii) As explained in the previous page, make settings in the LCD for the key, major/minor, IC type, and chord follow parameters.

START/STOP
O

Start

iv) Press the START/STOP key located in the middle of the panel.

→ **The arrangement playback will begin.**

v) In the high range of the connected MIDI instrument, play a melody.

→ **Chords will automatically be added to the melody, and will be played as an accompaniment and bass.**

→ **The LCD will show the chords added by the Interactive Composition function.**

⚠ In the case of Real-time IC, the *i5M* will be able to analyze your melody more accurately if you play notes somewhat shorter (briskly and precisely).

● Note ranges used in Interactive Composition

The note range in which the melody will be analyzed will depend on the Chord Scanning setting.

With a setting of OFF or FULL .... the melody will be analyzed over the entire note range.

With a setting of LOWER or UPPER ..... the melody will be analyzed in the note range below/above the split point.

● Automatic Key Detect function

If you select ANL when specifying the key, the Automatic Key Detect function will operate.

If you are not sure of the key of the song you are playing, the Automatic Key Detect function will find the key.

i) **In Arrangement Play mode, select the desired arrangement.**

ii) **Press the INTERACTIVE COMP. key located in the upper left of the**
** *i5M*'s front panel.**

iii) **In the LCD, set the key parameter to ANL.**

For the other parameters such as major/minor, IC type, and chord follow, make settings as explained on P.6-2.

iv) **Press the START/STOP key.**

→ **Playback will begin. However only the rhythm will play automatically.**

v) **In the high range of the connected MIDI instrument, play a melody.**

At this time, chord scanning and interactive composition will not yet operate.

vi) **When you finish playing, press the START/STOP key once again.**

vii) **Use the CURSOR keys ◄ or ► to move the cursor in the LCD to the**
** Key location.**

viii) **Press the TEMPO/VALUE UP key.**

→ **Each time you press the UP key, the possible keys for the melody you**
** just played will be displayed in the LCD, starting from the most prob-**
** able choice.**

If you press the RESET key while playback is stopped, the detected key will be cancelled.

ix) **After determining the key, begin playback once again.**

Press the START/STOP key.

→ **Playback will begin. If you now play the melody, an accompaniment and**
** bass will be played with chords appropriate for the specified key.**
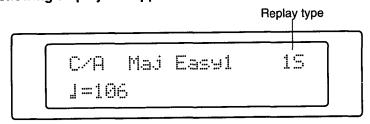
● Backing sequence IC
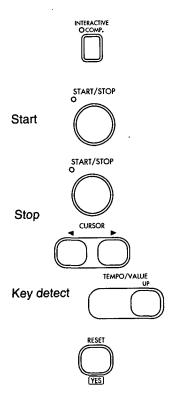
i) **First select a desired arrangement in Backing Sequence mode.**

Select an arrangement that you think might be appropriate for the melody you are going to play.

ii) **Press the INTERACTIVE COMP. key located in the upper right of the**
** front panel.**

→ **The INTERACTIVE COMP. LED will light.**

→ **The following display will appear in the LCD.**

Replay type

```
 C/A  Maj  Easy1        1S
 ♩=106
```

Start

Stop

Key detect

Adding chords to a re-corded melody

Specify an arrangement

Replay type (only for Backing Sequence IC)   [1,2,3,4]

This specifies how the melody will be analyzed and processed by the Interactive Composition function when adding an accompaniment to a melody recorded in Backing Sequence mode.

This parameter is not used when chords are added simultaneously to a melody (Arrangement mode).
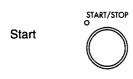
1 ...... Processing is basically the same as for Arrangement Play, but the melody will be analyzed with corrections made for deviations in timing. Compared with real-time, this method offers more accurate processing even for a performance with unsteady time.

2 ...... The melody in the measure of the chord location will be analyzed when assigning a chord. Safer and more natural chords will be added, compared to real-time processing in which only the portion of the melody played up to now can be analyzed. ★

3 ...... This is basically the same processing as 2, but for some melodies, it is possible that unnatural chords may appear.

4 ...... This is basically the same processing as 2, but the chord progressions determined by processing method 2 will be analyzed further, in order to generate richer and more natural chord progressions. ★

★ Note: With this setting, chords may change twice in a single measure even if the Chord Follow parameter is set to "s". ☞ P.6-3 "Chord Follow"

iii) In the LCD, make settings for the key, major/minor, IC type, replay type, and chord follow parameters, as explained on P.6-2 and explained above.

Start

START/STOP

iv) Press the BACKING SEQ.REC button, and then press the START/STOP key.

→ **Playback will begin.**

V) Play a melody in the high range of the connected instrument.

→ **Chords will automatically be assigned to the melody, and will be played as accompaniment and bass.**

→ **The chords that were assigned by the interactive composition function will be displayed on the right side of the tempo field on the LCD.**

When using Backing Sequence IC, the *i5M* assumes that very short notes were played by mistake, and sometimes may not be able to analyze your melody correctly.

Stop

START/STOP

vi) When you finish playing, press the START/STOP key again.

→ **The LCD will show as follows.**

```
C/A  Maj Easy1      1S
Replay (Yes/No)?
```

vii) If you wish to listen again to the playback with chords, press the RESET/[YES] key.

Press the TAP TEMPO/[NO] button, and the playback will stop once again.

```
C/A  Maj Easy1      1S
♩=106
```

Viii)Here you can modify the key, major/minor, IC type, replay type, and chord follow settings.

```
C/A  Maj Easy1      1S
J=106
```

Use the CURSOR ◄/► keys to select a desired item, and use the TEMPO/ VALUE UP/DONW key to change the settings.

When you finish modifying, press the START/STOP key.

```
G/E  Mm General 3S
Replay (Yes/No)?
```

If you wish to listen once again to the playback with chords, press the RESET/ [YES] key. Please note that changing the chords will erase all chord progression recorded, once the RESET/[YES] key is pressed.
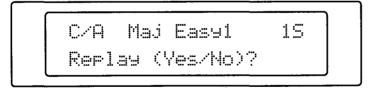
If you press the TAP TEMPO/[NO] key, the modified display will remain as it is, and the playback will stop once again.

● Adding chords to previously recorded playing

You can use the Interactive Composition function to add chords to what was previously recorded in Backing Sequence mode.

i) **In Backing Sequence mode, record your playing into the i5M.**

ii) **Press the INTERACTIVE COMP. key located in the upper left of the front panel.**

→ **The INTERACTIVE COMP. LED will light.**

→ **A display like the following will appear.**

```
C/A  Maj Easy1      1S
Replay (Yes/No)?
```

INTERACTIVE
O COMP.

↓

START/STOP
O

iii) **If you wish to hear the performance with chords added, press the RE-SET/[YES] key.**

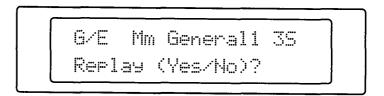→ **Playback will begin with the chords assigned by the Interactive Composition function.**

If you press the TAP TEMPO/[NO] key at this point, the playback will stop without any processing.

RESET

[YES]

iv) Here you can modify the key, major/minor, IC type, and chord follow settings.

```
C/A  Maj Easy1      1S
J=106
```

Use the CURSOR ◄/► keys to select a desired item, and use the TEMPO/ VALUE UP/DONW key to change the settings.

When you finish modifying, press the START/STOP key.

```
G/E  Mm General1  3S
Replay (Yes/No)?
```

If you wish to listen again to the playback with chords, press the RESET/[YES] key.

If you press the TAP TEMPO/[NO] key, the modified display will remain as is, and the playback will stop once again.

If you select ANL, the key of the performance data will be detected as explained in P.6-4. The chord assignment will not be changed.

Automatic Key Detect function in Backing Sequence mode

Record the melody to be analyzed on the keyboard track for the Automatic Key Detect function in Backing Sequence mode. If the melody has been recorded on an extra track the *i5M* cannot perform the Automatic Key Detect function, and the LCD will show the message "Keyboard Track Empty". In this case, use the Copy Measure function or the Bounce function to transfer data to the keyboard track before carrying out the Automatic Key Detect function.

Comparing different chord assignments

You may wish to try applying chords in various ways to a single performance, and compare them later.

If you save the backing sequence each time you change settings to the chord assignments, you can later switch backing sequences to compare them.

To do this, use the backing sequence Copy function.

It is also possible for you to copy a backing sequence with chords to a different backing sequence and then re-assign chords, and repeat this to create various possibilities of different chord assignments.
☞Reference Guide P.2-14 "Copying a backing sequence"

The following pages contain several songs as examples to help you better understand how this Interactive Composition function works. They are all simple songs, but they will illustrate how the timing with which you press and release notes affects the way in which chords are assigned and how the *i5M* analyzes your melody. Examples of parameter settings will be given for each song, and you can try out various settings and playing methods at a tempo that is comfortable for you. You will learn playing tips that will let you take full advantage of the Interactive Composition function.

Silent Night

By Gruber

Arrangement	B35 Slow Waltz 1
Key	C/A
Major/Minor	Maj
Chord Follow	S
IC Type	General 1, 2

Little Brown Jug.

Traditional

Arrangement	B12 Foxtrot 2
Key	C/A
Major/Minor	Maj
Chord Follow	S
IC Type	General 1, 2, 3

I've Been Working On The Railroad

Traditional

Arrangement	A22 Motown
Key	F/D
Major/Minor	Maj
Chord Follow	S
IC Type	Easy 1, 2 General 1, 2, 3

Swanee River

Traditional

Arrangement	B26 Rumba
Key	C/A
Major/Minor	Maj
Chord Follow	F
IC Type	General 1, 2
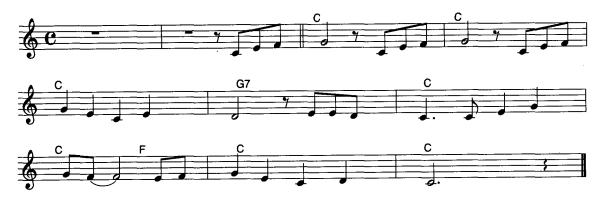
When The Saints Go Marchin' In

Traditional

Arrangement	B41 Dixieland
Key	C/A
Major/Minor	Maj
Chord Follow	F
IC Type	General 1, 2, 3

She Wore A Yellow Ribbon
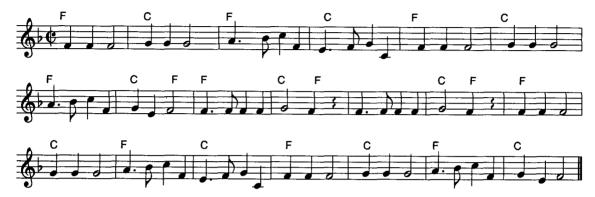
Traditional: Western Song

Arrangement	B57 Hully 2
Key	C/A
Major/Minor	Maj
Chord Follow	S
IC Type	General 1, 2, 3

Sur Le Pont D'avignon

Arrangement	A16 Light Rock 1
Key	C/A
Major/Minor	Maj
Chord Follow	F
IC Type	Easy 1, 2

London Bridge

Arrangement	A13 8BEAT 3
Key	C/A
Major/Minor	Maj
Chord Follow	S
IC Type	General 1, 2, 3

Oh Bury Me Not On The Lone Prairie

American Folk Song
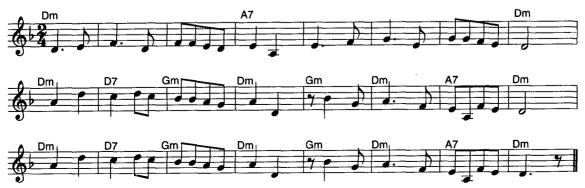
Arrangement	A26 Country 2
Key	G/E
Major/Minor	Maj
Chord Follow	S
IC Type	General 1, 2, 3, 4

КАТЮША

Russian Air

Arrangement	B45 Polka 1
Key	C/A
Major/Minor	min
Chord Follow	F
IC Type	General 1, 2, 3

7. Floppy Disks

What Type of Floppy Disk Do I Use?

Use only 3.5 inch 2DD or 2HD floppy disks.

The disk format is the same as that used on MS-DOS 720kB disks for 2DD, MS-DOS 1.4Mbytes for 2HD.

Handling Floppy Disks

Observe the following precautions when handling floppy disks.

* Do not open the shutter or touch the surface of a disk
* Do not transport the *i5M* with a floppy disk in the disk drive. Vibration may cause the disk drive head to scratch the disk, making it unusable.
* Do not store or place floppy disks near to a television, computer monitor, loudspeaker, power transformer, or any other device that generates a magnetic field. Doing so may render the disk unusable.
* Do not store or place floppy disks in locations subject to extremes of temperature and humidity, direct sunlight, or excessive dust and dirt.
* Do not place objects on top of a floppy disk.
* Always return disks to their protective cases after use.
* Do not move the main unit while the disk drive is active.

Write Protect Tab

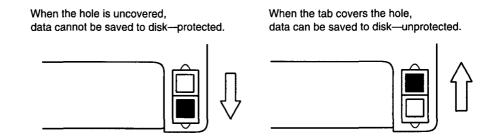A disk's write protect tab allows you to protect valuable data from being accidentally overwritten.

Use a pen or other pointed object to set the tab as shown below.
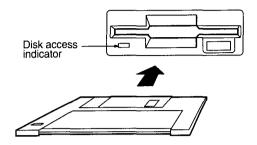
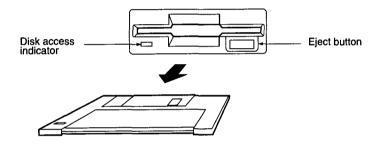⚠ To protect the saved data from being destroyed, position the tab in the protected position.

When the hole is uncovered, data cannot be saved to disk—protected.

When the tab covers the hole, data can be saved to disk—unprotected.

Inserting a Floppy Disk

Insert the disk into the disk drive label side up, shutter first. Push it in until it clicks into place. Do not force disks into the drive. Make sure that you hold the disk straight while inserting it.

Disk access indicator

Ejecting a Floppy Disk

Before ejecting a disk, make sure that the disk drive busy light is off, and that no "Loading" or "Saving" messages are shown on the LCD. Then press the eject button, and remove the disk.

Disk access indicator   Eject button

Disk Drive Head Cleaning

If after a prolonged period of use, disk save and load errors become frequent, the disk drive head may need cleaning. This can be done using a good-quality fluid-type head cleaning kit for 3.5 inch DD (double-sided) disk drives. Do not use a cleaning kit intended for single- sided disk drives.

1) Moisten the cleaning disk with cleaning fluid.
2) Insert the cleaning disk into the disk drive.
3) Execute any type of load function. An error message will appear. This is normal.
4) After approximately 10 seconds, eject the disk.
   Do not use the disk drive for about 5 minutes.
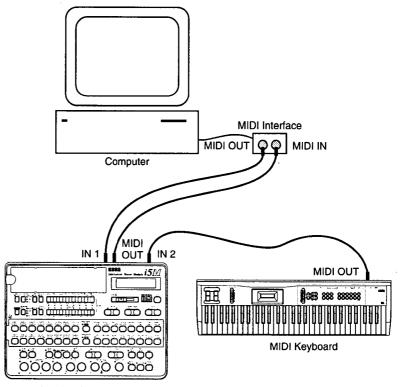
8. MIDI Applications

MIDI (Musical Instrument Digital Interface) is the standard interface used to link electronic musical instruments together. In the beginning, people used MIDI mainly to play two (or more) synthesizers from one keyboard. Since then, an extremely broad range of applications has emerged, from using a computer for multitrack sequencing and instrument parameter editing, to MIDI control of effects processors, mixers, and lighting systems.

This chapter deals with possible applications of MIDI and the *i5M*. For those interested in the details of MIDI, there are many well-written books available on the subject.

Using the *i5M* with an external sequencer

As you know, you can use the *i5M* Backing Sequence mode for recording sequences, and the Song Play mode to play back Standard MIDI File sequences. However, you may want to use a computer software sequencer to record your compositions. Usually, these sequencers offer advanced editing capabilities, but no interactive functions.

If you will be using the *i5M* or a MIDI device connected to the *i5M* to enter note data into the computer sequencer, make the following connections:

In this example, the *i5M* MIDI IN1 jack is connected to the sequencer, and the MIDI IN2 jack is connected to the MIDI instrument that will control the *i5M* in real-time. Set the Echo Back parameter to "IN 2" on page 2 in Global mode.
☞Reference Guide P.5-10

In this setup, automatic sequence playback data on the *i5M* is sent from the *i5M* MIDI OUT jack, and is received by the MIDI IN jack of the computer's MIDI interface. Performance data from the instrument connected to the *i5M* is sent to the *i5M* MIDI OUT jack as it is, and also sent to the MIDI IN jack of the computer's MIDI interface.

When playing back sequences, MIDI data from the computer is sent via the MIDI interface's MIDI OUT jack, and is received by the *i5M* MIDI IN jack.

If you want to use additional keyboards or sound modules, follow the setup below. As in the previous setup example, the *i5M* MIDI IN1 jack is connected to the sequencer, and the MIDI IN2 jack is connected to the external MIDI instrument. Set the Echo Back parameter to "IN 2" on page 2 in Global mode.
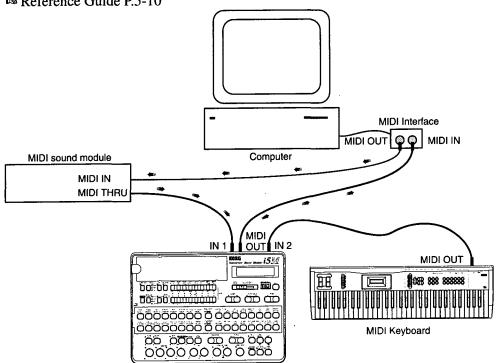☞Reference Guide P.5-10

In this setup, automatic sequence playback data on the *i5M* is sent from the *i5M* MIDI OUT jack, and is received by the MIDI IN jack of the computer's MIDI interface. Performance data from the instrument connected to the *i5M* is sent to the *i5M* MIDI OUT jack as it is, and also sent to the MIDI IN jack of the computer's MIDI interface. When playing back sequences, MIDI data from the computer is sent via the MIDI interface's MIDI OUT jack, and is received by the sound module's MIDI IN jack. This data is then passed on from the sound module's MIDI THRU jack to the *i5M* MIDI IN jack.

(If the sound module has no MIDI THRU jack, connect the MIDI interface's MIDI OUT jack to the *i5M* MIDI IN jack, and the *i5M* MIDI THRU jack to the sound module's MIDI IN jack.)

Use Global mode for setting up the Global channel for a backing sequence and MIDI channel of each track. Use Song Play mode so that the *i5M* will play SMF data received from an external MIDI device, or for setting up the *i5M* MIDI channel configuration. You can specify initial program, volume, panpot, and effect send values in the song itself, or you can send these messages from the computer via MIDI.

When sending program change messages, use a MIDI bank change message of 0 to select *i5M* banks A and B, 1 to select *i5M* banks C and U, 2 to select the *i5M* DRUM PROG bank, and 3 to select the *i5M* banks D and E.

MIDI bank number	MIDI program number	*i5M* program numbers
0	0–63	A11–A88
	64–127	B11–B88
1	0–63	C11–C88
	64–127	U11–U88
2*	0–127	Dr11–Dr28
3	0–63	D11–D88
	64–127	E11–E88

* When MIDI Filter (P7 in Global mode) Program Change PR is "s"
☞Reference Guide P.5-18

When using the setup above, it is recommended to set the *i5M* Local Control parameter on page 4 in Global mode to OFF. Set the computer sequencer to echo the data it receives from the MIDI IN jack, back to the MIDI OUT jack. The parameter that controls this function has a different name depending on the software you use. Some common names are echo back, patch thru, echo on, etc.

By turning Local Control off, you break the connection between the *i5M* keyboard and its tone generator. This way, the *i5M* acts as a separate MIDI keyboard and independent tone generator. The sequencer's echoing function allows you to play the *i5M* tone generator, as well as the MIDI sound module's tone generator, from the *i5M* keyboard. If the sequencer's echoing function is turned on, and the *i5M* Local Control parameter is also set to ON, two notes will be played by the *i5M* tone generator for every one note sent out from its keyboard.

Using the *i5M* to control other MIDI instruments

You can use the *i5M* arrangements and backing sequences to play other MIDI instruments. Just make sure to match the MIDI channels to the correct tracks. Also, use the Track Status parameter of Arrangement Play mode to determine whether the *i5M* will play its own sounds in addition to those of the other MIDI device. You can find the Track Status parameter on Page 4 of Arrangement Play mode.

Be aware that playback results will vary depending on the MIDI instruments used. For example, the *i5M* drum mapping feature may not produce the sounds you expect if the external MIDI instrument does not have the same drum kit layout.

What is General MIDI?

General MIDI, or GM, is an addition to the MIDI specification that makes it easier to play sequences on a wide variety of MIDI instruments, without much preparation.

Before the existence of General MIDI, there were no rules governing what kinds of sounds a MIDI instrument should include, or what order they should be placed in memory. Trying to play back sequence data using a different MIDI instrument could produce unpredictable results. For example, the hi-hat part could be played by a snare drum, the bass drum by a crash cymbal, and the piano part by a synth brass patch.

To make it sound right, you would have to look for programs that match those of the original instrument, make a list of each program number, and then edit the sequence data so that these new programs would be called up at appropriate volume levels.

General MIDI makes it possible for sequences written for GM-compatible instruments to sound relatively the same no matter what General MIDI instrument is used for playback. The piano track will play a piano sound, the drum parts will be played by the correct drum sounds, and the overall mix will be correct. Plus, there is no tedious editing, sound searching, or level matching required.

GM specifies a list of programs which includes all major musical instrument groups, assigned to specific program numbers. Also specified are the relative volume levels for each program, as well as guidelines for envelope settings (attack, release, etc.) and velocity response (touch sensitivity). In addition, a drum kit map is included which specifies the layout of drum sounds across the keyboard.

This opens up many new possibilities for MIDI applications. Sequences that conform to the GM specification can be traded on computer bulletin board systems, ready to play without any major preparations. Computer software and video game programmers can write music for GM instruments to accompany their software with high-quality sound and sound effects. Third party sequence vendors can offer pre-recorded music, in sequence form, for use in multimedia presentations. And the list goes on...

Playing GM sequence data

You can use Song Play mode to play GM sequences directly from the *i5M* disk drive, as long as the sequences have been saved as format 0 Standard MIDI Files. ☞Reference Guide P.3-3

You can also use the *i5M* Song Play mode to play GM sequence data from an external sequencer.

About Standard MIDI Files

The Standard MIDI File format was created to allow sequence data to be transferred between computers and keyboards that support this format.

Standard MIDI files come in three formats. The *i5M* conforms to format 0.

Standard MIDI files do not necessarily conform to the GM standard, however, they provide a useful way of transferring song data between GM compatible music systems. ☞Reference Guide P.3-1 "Song Play Mode"

Use the Song Play mode to play a standard MIDI file. Use the Convert to SMF function to convert and save a backing sequence into a format 0 Standard MIDI File. ☞Reference Guide P.2-30 "Standard MIDI File"

Specifications and Options

System:	AI^2 Synthesis (full digital processing)
Tone generator:	32 voices, 32 oscillators (single mode); 16 voices, 32 oscillators (layer mode)
Waveform memory:	6 megabyte PCM ROM
Effects:	2 stereo digital multi-effect systems, 47 effects
Programs:	128 GM programs + 1 GM drum program stored in ROM; 192 programs (Bank C, D, E) + 13 drum programs stored in ROM; 64 user programs + 2 user drum programs stored in RAM
Arrangements:	128 (Bank A, B) stored in ROM
Backing Sequences:	10 stored in RAM
Song:	16 Channel, 16 Voices (Dynamic Voice Allocation)
Backing Sequencer capacity:	40,000 events
Control inputs:	Damper pedal, assignable pedal/switch, EC5
Outputs:	Left/mono, right, headphones
Inputs:	Left/mono, right
MIDI:	IN 1, IN 2, OUT, THRU
Floppy disk drive:	3.5 inch 2DD/3.5 inch 2HD (IBM PC 1.44MB)
Display:	Backlit LCD, 20 characters × 2 lines
Power supply:	DC12V
Power consumption:	700mA
Standard accessories:	AC adapter, preload program disk IFD-03P, parameter sheet (9), overlay sheet (3)
Dimensions:	340(W) × 250 (D) × 69 (H) mm
Weight:	2.2kg
Optional accessories:	EC5 External Controller, DS-1 Damper Pedal, PS-1 Pedal Switch, PS-2 Pedal Switch, EXP-2 Expression Pedal, XVP-10 Expression Pedal, MIDI cable

Specifications are subject to change without notice.

User's Guide

NOTICE

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.

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