Installing and setting up the Korg MIDI Driver

Installing the Korg MIDI Driver into Windows 95/98 and making settings

Installing the Korg MIDI Driver into Windows 95/98

If your application (sequencer) is Windows-compatible, using the Korg MIDI Driver will allow you to use a Korg tone generator connected to the serial port (COM, RS-232C) as a MIDI device.

Before you install the Korg MIDI Driver, use the special serial cable to connect the TRITON and your computer, turn on the power of the TRITON, and set the Global P0: System Pref. tab "PC I/F Baud Rate" parameter to the setting appropriate for your computer (☞p.112, 113).

If your computer is not fast enough, the data at MIDI IN may not be received correctly. Windows NT is not supported.

① In the task bar, click the [Start] button, and then click [Control Panel].



② In the control panel, double-click the "Hardware" or "Add hardware" icon, and the "Hardware wizard" will start up. On Windows 95 click [Next>]. On Windows 98, click [Next>] and when an explanation appears, click [Next>] once again.

In response to "Do you want Windows to search for your new hardware?" be sure to select "No," and then click [Next>].



③ Select "Sound, video, and game controllers," and click [Next>].



④ Click [Have Disk].



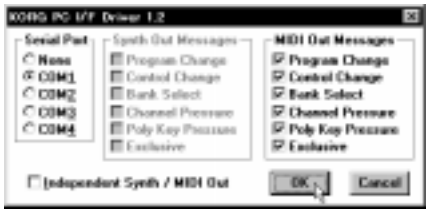
⑤ You will be asked for the drive and directory. Insert the floppy disk containing the Korg PC I/F Driver (AG-001B), and input the drive name.

For example if your floppy disk drive is A, type "A:\".

Click the [OK] button, and then click [OK] again.



⑥ Make settings as described in “Setting up the Korg MIDI Driver” (below), and click the [OK] button.



⑦ Be sure to restart your computer so that the new driver becomes effective.



Korg MIDI Driver settings

① In “Control panel,” double-click the “Multimedia” icon, and the “Multimedia Properties” dialog box will appear.

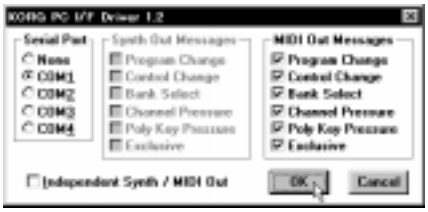
Click the “Advanced” tab located at the upper right. Click the [+] located at the left of “MIDI Devices and Instrnments” (the display will change to [–]), and click “KORG PC I/F MIDI Port.”
Then click the [Properties] button.



② “KORG PC I/F MIDI Port Properties” will appear. Click the [Settings] button.



③ Make settings as described in “Setting up the Korg MIDI Driver” (below), and click the [OK] button. If you change the settings, you must restart Windows.



Setting up the Korg MIDI Driver (Windows)

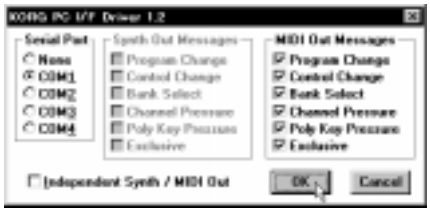
① For Serial Port, select the serial port (“COM1” to “COM4”) to which the TRITON is connected. If you wish to use the serial port for a different purpose after installing the Korg MIDI Driver, you can either select “None” to disable the driver, or “Delete” the driver and restart Windows.

② If “Independent Synth / MIDI Out” is not checked, data that is output to Default MIDI will be sent both to the tone generator and to MIDI OUT. If “Independent Synth / MIDI Out” is checked, the operation will depend on the model of tone generator that you are using.

Since the TRITON does not support this function, do not check Independent Synth / MIDI Out.

③ Synth Out Messages allows you to select the messages that will be transmitted to the TRITON. MIDI Out Messages allows you to select the messages that will be output from the MIDI OUT of the tone generator.

④ When you finish making settings, click the [OK] button. Alternatively, if you wish to cancel the changes you made, click [Cancel]. If you have made changes, you must restart Windows.



Installing the Korg MIDI Driver into a Macintosh

You can use the Korg MIDI Driver if the MIDI application (sequencer) you use runs on Apple MIDI Manager.

If you are using a MIDI application that does not use Apple MIDI Manager, it is not necessary to install the Korg MIDI Driver. Set the MIDI output port of your MIDI application to the port to which the TRITON is connected, and set the Clock setting to [1 MHz].

In order to use the Korg MIDI Driver, the Apple MIDI Manager and PatchBay must already be installed. Use the versions of Apple MIDI Manager and PatchBay that are included with your MIDI application. They are not included with the AG-002B.
When the Korg MIDI Driver is used, the "Modem MIDI Out / Port setting" dialog box will allow you to specify the MIDI channels and types of messages which will be transmitted to the TRITON. If you do not need this functionality, you can simply use the Apple MIDI Driver without the Korg MIDI Driver. When using the Apple MIDI Driver (☞p.132).

① Copy the KORG MIDI Driver from the disk included with the AG-002B into the system folder of your startup disk.



② If there is a copy of Apple MIDI Driver in your system folder, either delete it, or move it to another folder. Be careful not to delete or move the Apple MIDI Manager.

The KORG MIDI Driver includes the functionality of the Apple MIDI Driver.

③ From the Special menu, select "Restart."

Setting up the Korg MIDI Driver (Macintosh)

① Start up PatchBay.



If installation has been performed correctly, the KORG MIDI Driver icon shown above will appear in the PatchBay window when PatchBay is started up. (The modem and printer ports will be displayed differently depending on the setup condition.)

② In PatchBay, double-click the KORG MIDI Driver icon.

The setup dialog box will appear.

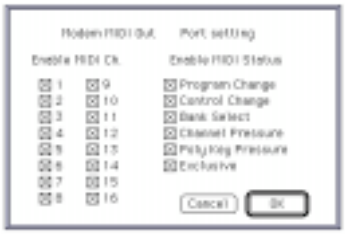


③ Check the Port Enable box for the port to which the TRITON is connected, and specify [1 MHz] .

Since the TRITON does not contain a KORG PC IF, do not select [KORG PCIF].

④ Press the [Out Port Setting] button.

The following dialog box will appear. Here you can select the MIDI channels / messages which will be output to each port. Only those channels / messages whose box is checked will be output.



⑤ When you have finished making settings, click the [OK] button.

⑥ Start up your MIDI application (sequencer), and drag the mouse from the ▷ of the your MIDI application's Out Port to connect it to the MIDI Out of the MIDI Driver.

For details on using PatchBay, refer to "About PatchBay..." etc. in the Apple menu.

To use the Apple MIDI Driver, you must first delete or move the Korg MIDI Driver if it exists in your system folder. Then start up PatchBay, double-click the Apple MIDI Driver icon that appears, check Enabled for the Port to which the TRITON is connected, set Interface Type to [1 MHz], and close the dialog box. In PatchBay, drag the mouse from the OutPort of the MIDI application (sequencer) to connect it to MIDI Out.

Using PC Exchange to convert SMF data

Most commercially available Standard MIDI File (SMF) song data is saved in MS-DOS format.
You can use PC Exchange to make MS-DOS format SMF song files recognizable by the Macintosh.

① In the control panel, open PC Exchange.

The PC Exchange control panel will appear.

② Press the [Add...] button.

The [Specify application associated with DOS extension] window will appear.

③ Input ".MID" into the DOS extension field.

In order to distinguish different types of file, MS-DOS adds an extension consisting of a period and three characters to the end of the filename. It is customary for SMF data to have an extension of ".MID"

④ From the list that appears in the lower part of the dialog box, select your SMF-compatible MIDI application (sequencer).

The selected icon will appear in the Application field.

⑤ From the [Document type] popup menu, choose [Midi], and click the [OK] button.

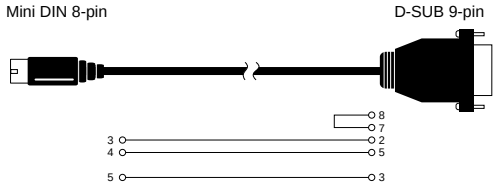
The item which was added to the PC Exchange window will appear, and has now been registered.

Now when an MS-DOS SMF disk is inserted into the disk drive, it can be used immediately.

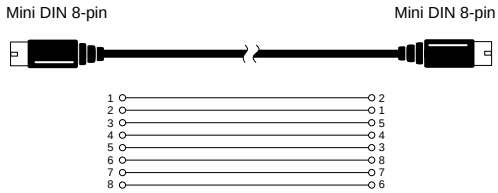
For details refer to the documentation for "Macintosh PC Exchange."

Wiring diagram for special connection cables

(1) AG-001B (for IBM PC or Compatible)



(2) AG-002B (for Macintosh)



Troubleshooting

If you experience problems, refer to the relevant item and take the appropriate measures.

Power does not turn on

- Is the power cable connected to an outlet? ..... ☞p.15
- Is the [POWER] switch turned on?
  Turn on the rear panel [POWER] switch. ..... ☞p.17

Power is on, but nothing is displayed in the LCD screen

- Use the rear panel [Contrast] knob to adjust the contrast of the LCD screen. ..... ☞p.9

Can't operate the LCD screen correctly

- In Global P0: Basic Setup, execute the "Touch Panel Calibration" page menu command to adjust the sensitivity of the touch panel. ..... PG ☞p.115

note If it is not possible to select this command from the page menu, enter Global mode P0 (press the [MENU] key, and then press the [0] or [EXIT] key to access this), and then hold down the [ENTER] key and press numeric key [2] to display the dialog box.

No sound

- Are connections made correctly to your amp, mixer, or headphones? ..... ☞p.15
- Is your amp or mixer turned on?
- Is Local Control turned on?
  In Global P1: MIDI, **check** the "Local Control On" check box. ..... PG ☞p.117
- Is the [VOLUME] slider raised? ..... ☞p.6
- If there is no sound from the OUTPUT (INDIVIDUAL) 1–4 jacks, make sure that "BUS Select (IFX / Indiv.Out Assign)" or "Bus Select" following the insert effect is set to **1**, **2**, **3**, **4**, **1/2**, or **3/4**. ..... ☞p.107~
- If specific tracks in Sequencer mode or Song Play mode do not sound, Make sure that the **PLAY/MUTE/REC button** or **PLAY/MUTE button** is set to **PLAY**. ..... ☞p.62, p.88
  Make sure that the "Status" is **INT** or **BTH**. ..... ☞p.59, p.85
- Are the Key Zone and Velocity Zone set so that sound will be produced when you play? .. PG ☞p.59

Notes do not stop

- In Program P1: Edit Basic, select the Program Basic tab, make sure that the "Hold" check box is unchecked. PG ☞p.4
- In Global P2: Controller, make sure that "Damper Polarity" or "Foot Switch Polarity" is set correctly. ..... PG ☞p.121

Cannot input sound

- Is your audio source connected to the AUDIO INPUT 1, 2 jacks? ..... ☞p.78
- Is the AUDIO INPUT [LEVEL] knob raised? ..... ☞p.78
- Is the [MIC-LINE] switch set appropriately? ..... ☞p.78
- If there is no sound in Sampling mode, go to Sampling P0: Recording, select the Input / Setup tab, and make sure that "Level" and "BUS(IFX) Select" are set correctly. ..... ☞p.79
- If there is no sound in Program, Combination, Sequencer, or Song Play modes, go to Global P0: Basic Setup, select the Audio Input tab, and make sure that "Level" and "BUS(IFX) Select" are set correctly. ☞p.109

Noise or oscillation is heard

- When using an effect on the external audio source being input from AUDIO INPUT 1 and 2, oscillation may occur depending on the type of effect or on the parameter settings. Please adjust the input level, output level, and effect parameters. You need to be particularly careful when using a high-gain effect.
- After a sample edit has been executed, or after a stereo sample has been recorded, a small noise may be heard. This has no effect on the audio data that was edited or sampled.
- When using the BPM / MIDI Sync function to control the delay time of an effect, noise may occur in the delay sound. This noise is due to discontinuities in the delay sound, and is not a malfunction.

Effects are not applied

- Are the Global P0: Basic tab "IFX1–5 Off," "MFX1 Off," or "MFX2 Off" settings checked? ..... ☞p.125
- If you are in Combination, Sequencer, or Song Play modes, and master effects are not applied when you raise the "Send 1" or "Send 2" of the timbre / track, does "Return 1" or "Return 2" from the master effect need to be raised? ..... ☞p.108
  Alternatively, has "Send 1" or "Send 2" for each oscillator of the program used by the timbre / track been lowered? ..... PG ☞p.24

note The actual send level is determined by multiplying the send setting of each oscillator in the program

with the send setting of the timbre / track.

Cannot record a sample

- Are one or more SIMM modules installed? ..... PG ☞p.243
- Is there free RAM area ..... PG ☞p.81
  Select a different RAM memory. ..... PG ☞p.81
  Delete unneeded samples. ..... PG ☞p.83
  Save important samples before deleting them ..... PG ☞p.83

Song does not playback correctly after data is loaded

- In the dialog box when saving the data, did you check the check boxes for each item that you wanted to save? ..... ☞p.41
- Are the program or combination banks / numbers the same as when you created the song? ..... PG ☞p.115
- Did you load the necessary multisamples and samples?

Playback does not start when you press the [START / STOP] key in Sequencer mode

- Is the Global P1: MIDI "Clock Source" set to Internal? PG ☞p.118

Can't record in Sequencer mode

- Is the Global P0 Memory Protect "Song" check box unchecked? PG ☞p.118
- Is the Global P1: MIDI "Clock Source" set to Internal? PG ☞p.118

In Song Play mode, a GM / GS / XG-compatible SMF is not played correctly

- Execute GM Initialize to initialize the settings. ..... PG ☞p.102
- Is Bank Map set to **GM(2)**? ..... PG ☞p.115
- Is "Status" set to **INT**? ..... ☞p.104

Settings for oscillator 2 are not displayed

- Make sure that the Program P1: Program Basic tab "Oscillator Mode" parameter is set to **Double**. ..... ☞p.45

The TRITON does not respond to incoming MIDI data

- Are all MIDI cables connected correctly? ..... ☞p.111~
- Is the MIDI data being received on the channel on which it is being transmitted? .... ☞p.114, PG ☞p.118

The TRITON does not respond correctly to incoming MIDI data

- Are the Global P1: MIDI settings "Enable Program Change," "Enable Bank Change," "Enable Control Change," and "Enable After Touch" each **checked**? ..... PG ☞p.118
- If you wish to receive MIDI exclusive messages, is the Global P1: MIDI "Enable Exclusive" item **checked**? PG ☞p.119
- Does the TRITON support the types of messages that are being sent to it?

Can't format a floppy disk

- Are you using a 2.5 inch 2HD or 2DD floppy disk?
- Is the floppy disk inserted correctly?
- Cover the write protect hole of the floppy disk, so that it is in the "write permit" position.
  Correctly insert a 3.5 inch 2HD or 2DD floppy disk (with its write protect hole covered) into the disk drive, and format it once again.

Can's save / load data to / from a floppy disk

- Is the floppy disk inserted correctly?
- Is the floppy disk formatted?
- Is the write protect hole of the floppy disk covered, so that it is in the "write permit" position?
  Correctly insert a 3.5 inch 2HD or 2DD floppy disk (with its write protect hole covered) into the disk drive, and perform the save or load operation once again.

*Paramater Guide = PG

Specifications and options

Specifications

System
HI (Hyper Integrated) synthesis system

Modes
Combination, Program, Sequencer, Sampling, Song Play, Global, Disk

Tone generator
HI (Hyper Integrated) synthesis system
Polyphony: 62 voices (62 oscillators) in single mode
31 voices (62 oscillators) in double mode
Filters: 24 dB / oct LPF with resonance
12 dB / oct LPF + HPF
Alternate modulation function

Waveform memory
32 Mbyte PCM ROM
(425 multisamples, 413 drumsamples)
Expandable via PCM ROM option
(EXB-PCM series is supported)
16 Mbyte user sampling RAM (SIMM)
(expandable to a maximum of 64 Mbytes)

Sampling
48 kHz, 16 bit linear
Maximum sample data memory capacity 64 Mbyte (with SIMM expansion)
4000 samples, 1000 multisamples
(128 indexes for each multisample
Able to load AIFF, WAVE, AKAI (S1000 / 3000), Korg format sample data can be loaded

Effect section
5 insert effects (stereo in / out),
2 master effects (mono in / stereo out),
1 master EQ (3-band stereo), all usable simultaneously
102 effect types (available for insert effects or master effects)
Effect dynamic modulation function

Combinations / Programs
512 user memory combinations (512 presets)
640 user memory programs (512 preset)
256 + 9 drum ROM programs (GM2 sound map compatible)

Drum Kits
64 user drum kits (16 presets)
9 ROM GM drum kits (GM2 sound map compatible)

Dual polypnonic arpeggiator
Use two arpeggiators simultaneously
(Combination, Sequencer, Song Play modes)
5 preset arpeggio patterns
232 user arpeggio patterns (180 presets)

Sequencer
16 timbres, 16 tracks + 1 master track
Maximum capacity: 200,000 notes
Resolution ♩=192
200 songs
20 cue lists
150 preset patterns, 100 user patterns (for each song)
16 preset / 16 user template songs
Supports TRITON format and SMF (formats 0 and 1)
RPPR (Realtime Pattern Play / Recording) function (One set is available for each one song)

Song play
16 timbres, 16 tracks
SMF (formats 0 and 1) supported

Disk mode
Load, save, utility
Data filter function (save / load MIDI exclusive data)
Loading from CD-ROM (ISO 9660 level1) is supported

Keyboard
TRITON proX: 88 keys (weighted)
TRITON pro: 76 keys
TRITON: 61 keys

Controllers
Joystick, ribbon controller, [SW1] / [SW2] keys, REALTIME CONTROLS knobs [1]–[4] and [A / B mode] key, [VALUE] slider, ARPEGGIATOR [TEMPO], [GATE], [VELOCITY] knobs and [ON / OFF] key

User interface
TouchView graphical user interface
(320 · 240 pixel LCD display)
[VOLUME] slider
Mode keys:
[COMBI], [PROG], [SEQ], [SAMPLING], [S.PLAY], [GLOBAL], [DISK]
Value controllers:
[VALUE] slider, [△][▽] keys, [VALUE] dial, numeric keys ([0]...[9], [–], [. / 10's HOLD], [ENTER]
[MENU], [EXIT] key, [COMPARE] key
BANK keys: [A], [B], [C], [D], [E], [F], [G]
SEQUENCER / SAMPLING control keys:
[PAUSE], [REW], [FF], [LOCATE], [REC / WRITE], [START / STOP]

Audio outputs
AUDIO OUTPUT (MAIN) L / MONO, R:
AUDIO OUTPUT (INDIVIDUAL) 1, 2, 3, 4:
Output impedance 1.1 [kW]
(L / MONO is 550 [W] for mono)
Maximum output level +13.5 [dBu]
Load impedance 100 [kW] or greater
AUDIO OUTPUT HEADPHONE
Output impedance 33 [W]
Maximum output level 25 [mW]
Load impedance 33 [W]

Audio inputs

AUDIO INPUT 1, 2
LEVEL [MIC / LINE] switch, [LEVEL] knob

Input impedance		10 [kW]	
Nominal level	LINE	+4 [dBu]	@ [LEVEL] knob= min.
		–30 [dBu]	@ [LEVEL] knob= max.
	MIC	–17 [dBu]	@ [LEVEL] knob= min.
		–52 [dBu]	@ [LEVEL] knob= max.
Maximum level	LINE	+14 [dBu]	@ [LEVEL] knob = min.
		–20 [dBu]	@ [LEVEL] knob= max.
	MIC	–7 [dBu]	@ [LEVEL] knob= min.
		–42 [dBu]	@ [LEVEL] knob= max.
Source impedance		600 [W]	

Control inputs

DAMPER (half-damper supported), ASSIGNABLE SWITCH / PEDAL

Other

MIDI IN, OUT, THRU
TO HOST (Mini-DIN 8 pin I / F)
LCD contrast knob
3.5 inch floppy disk drive
AC power inlet, switch

Support for options

EXB-PCM series PCM expansion board (16 Mbyte ROM) slots · 2
72 pin SIMM memory slots · 2 (for user sample memory)
EXB-MOSS
EXB-SCSI

Dimensions (W · D · H)

TRITONproX: 1472.0 · 436.5 · 137 (mm)
TRITON pro: 1281.4 · 348.5 · 122 (mm)
TRITON: 1074.4 · 348.5 · 122 (mm)

Weight

TRITONproX: 28.6 kg
TRITON pro: 16.5 kg
TRITON: 14.2 kg

Power consumption:

26 W

Included items:

AC cable
Preloaded program disks TNFD-00P, TNFD-01P

Options

Expansion boards

EXB-MOSS DSP Synthesizer Board
EXB-SCSI SCSI Interface Board
EXB-PCM01 PCM Expansion Board
- Pianos / Classic Keyboards
EXB-PCM02 PCM Expansion Board
- Studio Essential

Expression / volume pedal:

XVP-10

Foot controller:

EXP-2

Damper pedal:

DS-1H

Pedal switch:

PS-1

Connection kit:

AG-001B MIDI Driver software and computer interface cable for IBM PC compatible.
AG-002B MIDI Driver software and computer interface cable for Macintosh (for models a serial port is equipped)

Other:

MIDI cable

* Appearance and specifications of this product are subject to change without notice. (April/'99)

MIDI implementation chart

Consult your local Korg distributor for more infomation on MIDI IMPLEMENTATION.

Function		Transmitted	Recognized	Remarks
Basic Channel	Default	1 – 16	1 – 16	Memorized
	Changed	1 – 16	1 – 16	
Mode	Memorized		3	
	Messages	×	×	
	Altered	**********		
Note Number:		0 – 127	0 – 127	Sequencer and Arpeggiator data
	True Voice	**********	0 – 127	can transmit all note numbers 0–127
Velocity	Note On	○ 9n, V=1 – 127	○ 9n, V=1 – 127	
	Note Off	×	×	
Aftertouch	Polyphonic (Key)	○	○	Polyphonic aftertouch transmitted *A
	Monophonic (Channel)	○	○	only as sequence data *A
Pitch Bend		○	○	*C
Control Change	0, 32	○	○	Bank Select (MSB, LSB) *P
	1, 2, 16, 18	○	○	Joystick (+Y, –Y), Ribbon, Slider *C
	4, 5, 7, 8, 10	○	○	Pedal, Portamento Time, Volume, IFX pan, Pan *C
	11, 12, 13	○	○	Expression, Effect Control 1/2 *C
	64, 65, 66, 67	○	○	Damper, Portamento Sw., Sostenuto, Soft *C
	70 – 79	○	○	Sound (Realtime Controls 1–4A: 74, 71, 79, 72) *C
	80, 81, 82, 83	○	○	Switch 1, 2, Foot Switch, Controller *C
	93, 91, 92, 94, 95	○	○	Send 1, 2, Effect ON/OFF (IFXs, MFX1, MFX2) *C
	6, 38	○	○	Data Entry (MSB, LSB) *C
	96, 97	×	○	Data Increment, Decrement *C
	98, 99	○	○	NRPN (LSB, MSB) *C, *2
	100, 101	×	○	RPN (LSB, MSB) *C, *3
	0 – 95	○	○	Realtime Controls knobs 1–4 B-assign *C
	0 – 101	○	○	Sequencer data (receive *C)
	120, 121	×	○	All Sound Off, Reset All Controllers *C
Program Change		○ 0 – 127	○ 0 – 127	*P
	Variable Range	**********	0 – 127	
System Exclusive		○	○	*E*4
System Common	Song Position	○	○	When cue list is selected, corresponds to cue list *1
	Song Select	○ 0 – 127	○ 0 – 127	When cue list is selected, corresponds to cue lists 0–19 *1
	Tune	×	×	
System Real Time	Clock	○	○	*1
	Command	○	○	*1
Aux Messages	Local On/Off	×	○	
	All Notes Off	×	○ 123 – 127	
	Active Sense	○	○	
	Reset	×	×	

Notes
*P, *A, *C, *E: Transmitted/received when Global P1: MIDI Filter (Program Change, After Touch, Control Change, Exclusive) is Enable, respectively.
*1: When Global mode P1: MIDI Clock is Internal, transmitted but not received. The opposite for External MIDI or PCI/F.
*2: LSB,MSB=02,00: Arpeggiator ON/OFF, 0A,00: Arpeggiator Gate control, 0B,00: Arpeggiator Velocity control
*3: LSB,MSB=00,00: Pitch bend range, 01,00: Fine tune, 02,00: Coarse tune
*4: In addition to Korg exclusive messages, Inquiry, GM System On, Master Volume, Master Balance, Master Fine Tune, and Master Coarse Tune are supported.

Mode 1: OMNI ON, POLY Mode 2: OMNI ON, MONO ○ : Yes
Mode 3: OMNI OFF, POLY Mode 4: OMNI OFF, MONO × : No