

Owner's Manual

PianoPlus 350

PianoPlus 450

PianoPlus 350

PianoPlus 450

- Extremely dynamic, yet realistic expressions are obtained owing to its Velocity Sensitivity which can change the tone color (harmonic contents) as well as volume.
- All pitches, even the lower tones sound deep, lingering and articulate.
- The built-in computer separately generates waveforms for individual tone colors and pitches, which is another reason for its realistic sounds.

■ The HP-350/450 are Roland electronic pianos which offer you excellent performance abilities.

- This compact and light weighted electronic piano can be comfortably moved where you like.
- Provided with the IN, OUT and THRU sockets for MIDI, this piano can be connected to other MIDI instruments.

Important Notes

Location

- Operating the HP-350/450 near a neon or fluorescent lamp may cause noise interference. If so, change the position or angle of the piano.
- Avoid using the HP-350/450 in excessive heat or humidity or where it may be affected by direct sunlight or dust.

Power Supply

- The appropriate power supply for this instrument is shown on its name plate. Please be sure that the voltage system in your country meets this.
- This instrument might generate heat while operating, but there is no need to worry about it.

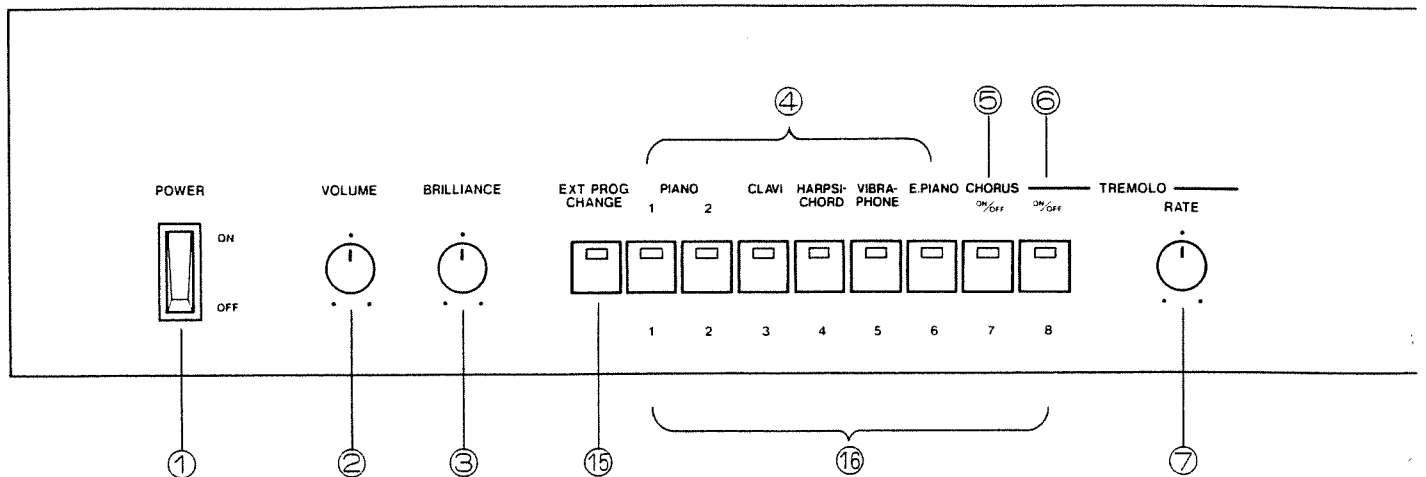
Cleaning

- Use a soft cloth and mild detergent for cleaning.
- Do not use solvents such as paint thinner.

* This owner's manual covers both the HP-350/450. The HP-450's front panel is shown here, but it is exactly the same as the HP-350's.

<p style="text-align: center;">Bescheinigung des Herstellers /Importeurs</p> <p>Hiermit wird bescheinigt, daß der/die/das ROLAND PIANO PLUS HP-350/450 <small>Modell Typ Bescheinigung</small></p> <p>in Übereinstimmung mit den Bestimmungen der Amtsbl. Vfg 1046 / 1984 <small>(Anzahlstellenlegung)</small></p> <p>funktionstüchtig ist. Der Deutschen Bundespost wurde das Inverkehrbringen dieses Gerätes angezogen und die Berechtigung zur Überprüfung der Serie auf Einhaltung der Bestimmungen eingeräumt.</p> <p style="text-align: center;">Roland Corporation Osaka/Japan <small>Name des Herstellers/Importeurs</small></p>
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■ Panel Descriptions



Front Panel

1 Power Switch

2 Volume Knob

3 Brilliance Knob

As you rotate this knob clockwise (↻), the tone color will be brighter, and counter-clockwise (↺) mellower. Normally this is set to the center.

4 Tone Selectors

By pressing one of these buttons, you can select a tone color you like. Just select one tone color at a time.

PIANO 1, 2
CLAVICHORD
HARPSICHORD
VIBRAPHONE
ELECTRIC PIANO

5 Chorus Button

Turn this button on (the indicator lights up), then expansive chorus sounds will be obtained.

6 Tremolo Button

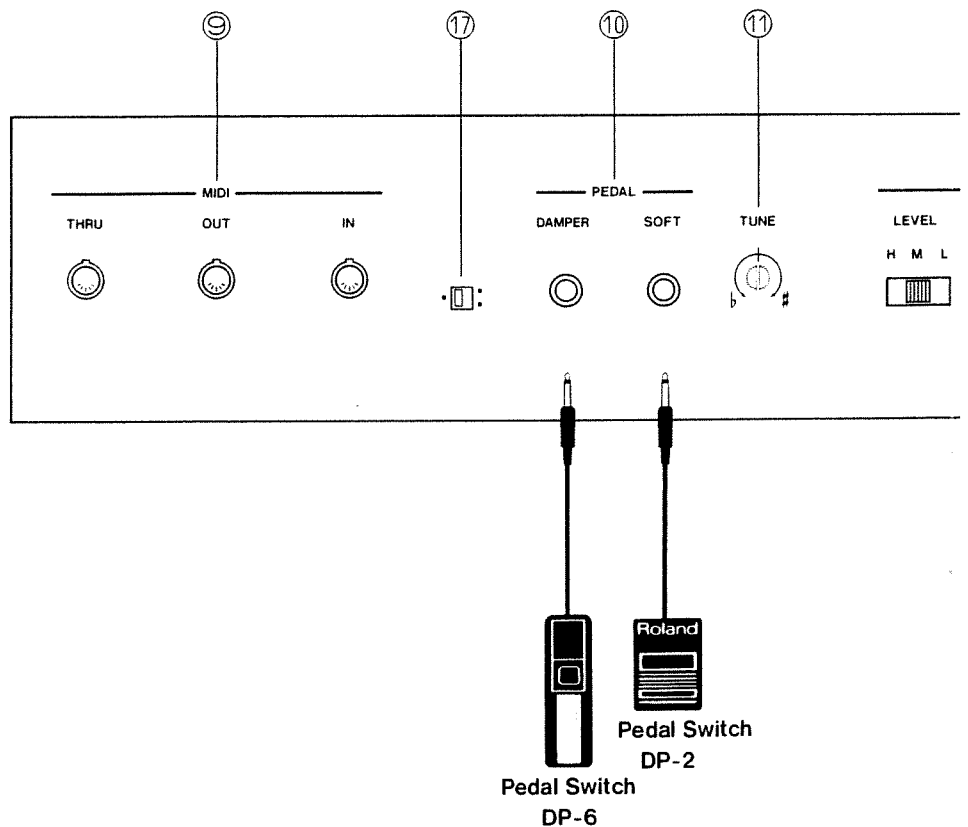
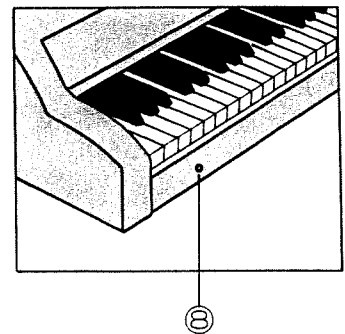
Press this button (the indicator lights up), and a tremolo effect is obtained.

7 Tremolo Rate Knob

This knob is to adjust the rate of the tremolo effect. Rotating this clockwise (↻) quickens the rate.

8 Headphones Jack

Standard stereo headphones can be connected. The sound from the built-in speaker stops automatically on connecting the headphones. Please adjust the volume with the Volume Knob.



PianoPlus 450

Roland Electronic Piano HP-450

Rear Panel

⑨ MIDI (Musical Instrument Digital Interface)

MIDI is an international standard of the electronic musical instruments. By connecting the devices featuring MIDI Buses, their musical messages can be communicated by means of digital signal. (Refer to the separate volume "MIDI")

⑩ Pedal Jacks (Damper, Soft)

This jack is used to connect the optional Pedal Switch DP-6, DP-2 or the one that belongs to the KS-350/450. These will function just like a damper pedal or a soft pedal of a usual piano.

⑪ Tune Knob

This is used to tune the HP-350/450 to other musical instrument. At its center position, A = 442Hz.

*The HP-350/450 itself never gets out of tune, therefore tuning is not necessary.

⑫ External Input Jacks

To this jack, you can connect a Rhythm Machine such as the CR-8000, TR-909 or Bass Line TB-303, etc.

*Select H, M or L position depending on the input level. (Set this switch to L if the input level is low, and H if high.)

⑬ Output Jacks

⑭ AC Socket

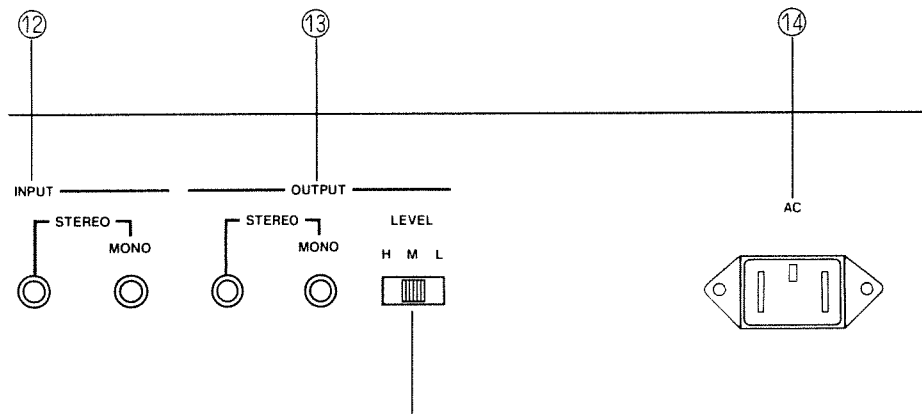
*Make sure that the HP-350/450 is turned off, then connect the power cable to this AC socket.

⑮ External Program Change Button

⑯ MIDI Channel Number Buttons

*The buttons ⑮ and ⑯ are exclusively used to control external MIDI instruments. (Refer to the next page.)

*The selector switch ⑰ should usually be set to the "·" position. Just when the PR-800 (Recorder Plus) and the PB-300 (Rhythm Plus), set it to "·".

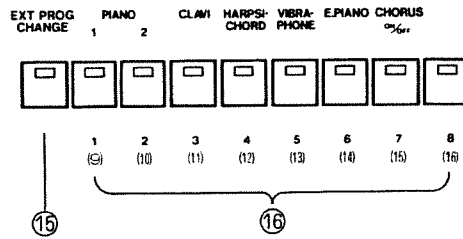


Keyboard Amp.	M/H
Audio Amp.	H
Recording Unit	H
P.A. Mixer	L/M/H
Guitar Amp.	L/M
	etc.

External Connections using MIDI

The HP-350/450 are the finest electronic piano on their own, but MIDI allows even more possibilities in performance by interfacing other MIDI devices.

The buttons ⑮ and ⑯ are used to control the external MIDI instruments. In that case, however, do not see the words marked above the buttons ⑯ but the number marked under.



1. Setting MIDI Channel

At power up, the HP-350(450) defaults to Channel 1 and OMNI ON.

→Refer to page 8–6. Modes in the separate book "MIDI".

To change MIDI Channels, while holding down a relevant MIDI Channel Buttons ⑯ (1 to 8), turn the piano on.

e.g. to change to MIDI channel 4, while holding the button 4 down, switch the piano on. When the button being held down lights up, release the button.

In the same way, you can set any MIDI channel 1 to 8.

To set the channel number of 8 to 16, hold down the External Program Change Button ⑮ as well. To select channel number 14, hold down a relevant MIDI Channel Button 6 and the External Program Change Button ⑮ then without releasing them, switch the piano on.

MIDI does not allow setting different channel numbers for receive and transmit. That is, the MIDI channel you have set is both for receiving and sending messages.

2. Sending Program Change 0 to 7

The HP-350(450) can send program change message 0 to 7 to the external device. →Refer to page 7–4. Performance Information(2) in "MIDI".

Program Change numbers 0 to 7 correspond to MIDI Channel Number Buttons 1 to 8.

To send the Program Change message, while holding down the External Program Change Button ⑮, press a relevant MIDI Channel Number Button ⑯.

Refer to MIDI Implimentation.

3. Receiving Program Change 0 to 127

The HP-350(450) can receive Program Change message 0 to 127. This enables to externally select any of the 24 patches (6 tone colors + 4 kinds of chorus and tremolo settings). →Refer to MIDI Implimentation.

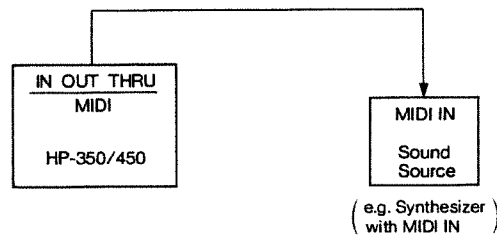
4. Control Change

The HP-350(450) can send and receive Control Change Message. Control Change message includes Damper Pedal and Soft Pedal ON/OFF. →Refer to page 7 – (4) in "MIDI".

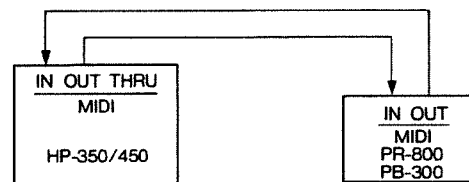
If you do not want the piano to receive Program Change message, you can block it by switching the piano while holding both the Damper Pedal and Soft Pedal.

Connections using MIDI

(1) Setup with MIDI Sound Module.

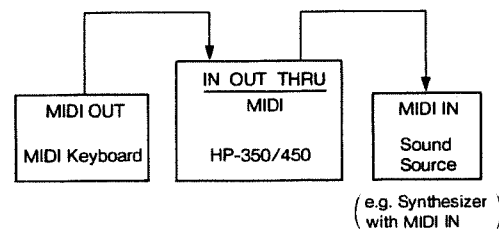


(2) Setup with PR-800 and PB-300.

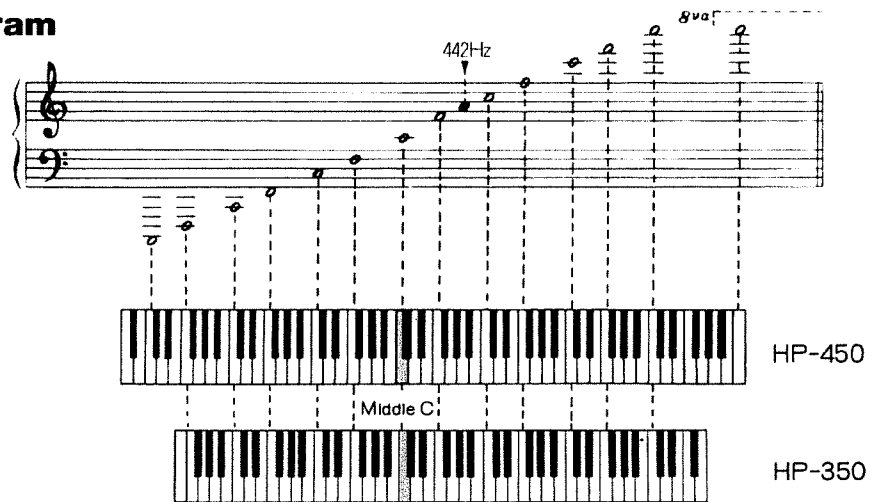


※Set the switch ⑰ to the " : " position.

(3) Controlling HP-350/450 and MIDI Sound Module by MIDI Keyboard.



■ Sound Range Diagram



■ Specifications

Keyboard	76 keys, 8 voice polyphonic (HP-350) 88 keys, 12 voice polyphonic (HP-450)
Tone Selector buttons	Piano 1, Piano 2, Clav, Harpsichord, Electric Piano
Effect	Chorus On/Off, Tremolo On/Off, Tremolo Rate
Performance Control	Volume, Brilliance, Tune (± 35 cent)
Jacks	Output (Mono, Stereo), Ext. Input, Phones, Damper Pedal, Soft Pedal, MIDI In (DIN socket), MIDI Out (DIN socket), MIDI Thru (DIN socket)
Selector switches	Output Level Selector switch, Input Level Selector switch
Speakers	20cm \times 1, 12cm \times 1
Output Power	10 W \times 2
Consumption	Shown on the name plate.
Dimensions	1220(W) \times 445(D) \times 189(H)mm 48-1/16"(W) \times 17-1/2"(D) \times 7-7/16"(H) (HP-350) 1383(W) \times 445(D) \times 189(H)mm 54-7/16"(W) \times 17-1/2"(D) \times 7-7/16"(H) (HP-450)
Weight	30.2kg 66 lb 9oz (HP-350) 33.5kg 73 lb 14oz (HP-450)
Accessories	Score Stand, Power Cord

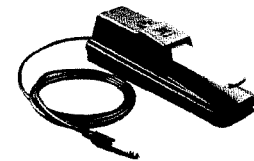
*Specifications are subject to change without notice.

■ Options

- Headphones RH-10



- Pedal Switch DP-6



- Pedal Switch DP-2



- Stand (inc. Damper Pedal, Soft Pedal)

KS-350

KS-450

Piano plus

MODEL HP-450/350 MIDI Implementation Chart

Function.....		Transmitted	Recognized	Remarks
Basic Channel	Default Changed	1 1 - 16*	1 1 - 16 *	* by power-up setting
Mode	Default , Messages Altered	3 POLY, OMNI OFF *****	1 or 3 * POLY, OMNI ON MONO(M≠1)→1, (M=1)→3	
Note Number	True voice	21-108(HP-450), 28-103(HP-350) *****	0 - 127 21 - 108	
Velocity	Note ON Note OFF	○ x	○ x	
After Touch	Key's Ch's	x x	x x	
Pitch Bender		x	x	
Control Change	64 65 67	○ (right pedal) x (left pedal) ○ (left pedal)	○ x ○	Damper (Soft pedal) ** Soft pedal ** can be re- cognized by circuitry change
Prog Change	True #	○ (0-7) *****	○ (0-127) 0 - 31	can be ignored by power-up setting
System Exclusive		x	x	
System Common	Song Pos Song Sel Tune	x x x	x x x	
System Real Time	Clock Commands	x x	x x	
Aux Messages	Local ON/OFF All Notes OFF Active Sense Reset	x ○ (123) ○ x	x ○ (123-127) ○ x	
Notes	When power up, ch-1 OMNI OFF and POLY ON are sent.			

Mode 1 : OMNI ON, POLY
Mode 3 : OMNI OFF, POLY

Mode 2 : OMNI ON, MONO
Mode 4 : OMNI OFF, MONO

○ : Yes
x : No

Piano plus

MODEL HP-450/350 MIDI Implementation

1. TRANSMITTED DATA

Status	Second	Third	Description
1001 nnnn	0kkk kkkk	0000 0000	Note OFF
1001 nnnn	0kkk kkkk	0vvv vvvv	Note ON kkkkkk = 21 - 108 (HP-450) kkkkkk = 29 - 103 (HP-350) vvvvvv = 1 - 127
1011 nnnn	0100 0000	0111 1111	Damper ON
1011 nnnn	0100 0000	0000 0000	Damper OFF
1011 nnnn	0100 0011	0111 1111	Soft ON
1011 nnnn	0100 0011	0000 0000	Soft OFF
1100 nnnn	0ppp pppp		Program Change pppppp = 0 - 7
1011 nnnn	0111 1011	0000 0000	ALL NOTES OFF
1011 nnnn	0111 1100	0000 0000	OMNI OFF
1011 nnnn	0111 1111	0000 0000	POLY ON
1111 1110			Active Sensing

Notes :

- nnnn : MIDI channel number (0000 - 1111), ch-1 = 0000
- w1 The second byte may be changed from 0100 0011 to 0100 0001 by internal circuitry change.
- w2 When one of the following switches is pressed while holding the EXT PROG CHANCE switch down.

Switch	Prog #
PIANO 1	0
PIANO 2	1
CLAVI	2
HARPSI	3
VIBRA	4
E.PIANO	5
CHORUS	6
TREMOLO	7

- w3 When all keys on the keyboard are released, the ALL NOTES OFF (2Bb, 37B, 0) is sent.
- w4 When power is first applied, OMNI OFF and POLY ON are sent in the BASIC channel.
- When the tone is changed from the panel, and if all keys on the keyboard are not pressed, these messages are sent in the BASIC channel.

2. RECOGNIZED RECEIVE DATA

Status	Second	Third	Description
1000 nnnn	0kkk kkkk	0vvv vvvv	Note OFF, velocity ignored
1001 nnnn	0kkk kkkk	0000 0000	Note OFF kkkkkk = 0 - 127 (21 - 108) = 1
1001 nnnn	0kkk kkkk	0vvv vvvv	Note ON kkkkkk = 0 - 127 (21 - 108) = 1 vvvvvv = 1 - 127
1011 nnnn	0100 0000	0111 1111	Damper ON
1011 nnnn	0100 0000	0000 0000	Damper OFF
1011 nnnn	0100 0011	0111 1111	Soft ON
1011 nnnn	0100 0011	0000 0000	Soft OFF
1100 nnnn	0ppp pppp		Program Change pppppp = 0 - 127
1011 nnnn	0111 1011	0000 0000	ALL NOTES OFF
1011 nnnn	0111 1100	0000 0000	OMNI OFF
1011 nnnn	0111 1101	0000 0000	OMNI ON
1011 nnnn	0111 1110	0000 0000	MONO ON
1011 nnnn	0111 1111	0000 0000	POLY ON
1111 1110			Active Sensing

Notes :

- w1 Note numbers outside of the range 21 - 108 are transposed to the nearest octave inside this range.
- w2 Value of the second byte (0100 0011) can be changed to 0100 0001 by internal circuitry change.
- w3 If the power is applied while pressing the damper pedal and soft pedal at the same time, this message may be ignored.

The assignment of received Program Change messages is as follows:
The program numbers 02 - 127 are repetitively recognized as 0 - 31.

Prog #	Tone Color	CHORUS	TREMOLO
0, 5	PIANO 1	OFF	OFF
1, 7	PIANO 2	OFF	OFF
2	CLAVI	OFF	OFF
3	HARPSI	OFF	OFF
4	VIBRA	OFF	OFF
5	E.PIANO	OFF	OFF
8, 14	PIANO 1	ON	OFF
9, 15	PIANO 2	ON	OFF
10	CLAVI	ON	OFF
11	HARPSI	ON	OFF
12	VIBRA	ON	OFF
13	E.PIANO	ON	OFF
18, 22	PIANO 1	OFF	ON
17, 23	PIANO 2	OFF	ON
18	CLAVI	OFF	ON
19	HARPSI	OFF	ON
20	VIBRA	OFF	ON
21	E.PIANO	OFF	ON
24, 30	PIANO 1	ON	ON
25, 31	PIANO 2	ON	ON
26	CLAVI	ON	ON
27	HARPSI	ON	ON
28	VIBRA	ON	ON
29	E.PIANO	ON	ON

- w4 When the ALL NOTES OFF is recognized, all the notes which have been turned ON only by MIDI IN note ON messages are turned OFF. However, if the damper pedal is pressed or the damper ON messages has been recognized, those ON Notes will be turned OFF until the damper pedal is released or the Damper OFF message is received.

- w5 These Mode Messages (2nd byte = 123 - 127) are also recognized as ALL NOTES OFF.

Mode Messages are recognized as follows:

OMNI OFF (124)	OMNI = OFF	MONO ON (125)	MONO ON (126)
POLY ON (127) <td>OMNI = OFF</td> <td>MONO ON (125)</td> <td>MONO ON (126)</td>	OMNI = OFF	MONO ON (125)	MONO ON (126)
OMNI ON (125) <td>OMNI = ON</td> <td>OMNI = ON</td> <td>OMNI = ON</td>	OMNI = ON	OMNI = ON	OMNI = ON
POLY	POLY	POLY	POLY

3. BASIC CHANNEL SETTING

When the power is first applied, the BASIC channel is normally set to 1, and the MIDI mode is set to the MODE 1 (OMNI ON, POLY ON). However, if the power is applied while pressing the following switches, the BASIC channel for both transmitting and receiving can be set to any number and the MIDI mode will be set to 3 (OMNI OFF, POLY ON).

Switch	BASIC channel	OMNI
PIANO 1	1	ON
PIANO 2	1	OFF
CLAVI	2	OFF
HARPSI	3	OFF
VIBRA	4	OFF
E.PIANO	5	OFF
CHORUS	6	OFF
TREMOLO	7	OFF
PIANO 1, EXT PROG	8	OFF
PIANO 2, EXT PROG	9	OFF
CLAVI, EXT PROG	10	OFF
HARPSI, EXT PROG	11	OFF
VIBRA, EXT PROG	12	OFF
E.PIANO, EXT PROG	13	OFF
CHORUS, EXT PROG	14	OFF
TREMOLO, EXT PROG	15	OFF
	16	OFF

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