Roland ep·7 DIGITAL PIANO

OWNER'S MANUAL

Thank you, and congratulations on your choice of the Roland ep-7.
The ep-7 Digital Piano, designed to make it easier for more people to have fun
with music, has firm roots in the same leading-edge technology and manufacturing
know-how that has made Roland a leader in electronic musical instrument development.
The ep-7 provides a selection of 5 realistic sounds (including piano)
and offers a keyboard that is a pleasure to play.
What's more, the instrument provides a complete range of features,
including a convenient recording function.

To make sure you are comfortable in using all the features the ep-7 offers,
and to ensure satisfaction for years to come, please read this Owner's Manual
in its entirety before starting out.

Important Notes

[Power Supply]
- Be sure to use only the AC adaptor supplied with the unit. Use of any other power adaptor could result in damage, malfunction, or electric shock.
- When making any connections with other devices, always turn off the power to all equipment first; this will help prevent damage or malfunction.
- Do not use this unit on the same power circuit with any device that will generate line noise, such as a motor or variable lighting system.
- The power supply required for this unit is shown on its nameplate. Ensure that the line voltage of your installation meets this requirement.
- Avoid damaging the power cord; do not step on it, place heavy objects on it etc.
- When disconnecting the AC adaptor from the outlet, grasp the plug itself; never pull on the cord.
- If the unit is to remain unused for a long period of time, unplug the power cord.

[Placement]
- Do not subject the unit to temperature extremes (eg. direct sunlight in an enclosed vehicle). Avoid using or storing the unit in dusty or humid areas or areas that are subject to high levels of vibration.
- Using the unit near power amplifiers (or other equipment containing large transformers) may induce hum.
- This unit may interfere with radio and television reception. Do not use this unit in the vicinity of such receivers.
- Do not expose this unit to temperature extremes (eg. direct sunlight in an enclosed vehicle can deform or discolor the unit) or install it near devices that radiate heat.

[Maintenance]
- For everyday cleaning wipe the unit with a soft, dry cloth (or one that has been slightly dampened with water). To remove stubborn dirt, use a mild neutral detergent. Afterwards, be sure to wipe the unit thoroughly with a soft, dry cloth.
- Never use benzene, thinners, alcohol or solvents of any kind to avoid the risk of discoloration and/or deformation.

[Memory Backup]
- The unit contains a battery which maintains the contents of memory while the main power is off. The expected life of this battery is 5 years or more. However, to avoid the unexpected loss of memory data, it is strongly recommended that you change the battery every 5 years. Please be aware that the actual life of the battery will depend on the physical environment (especially temperature) in which the unit is used. When it is time to change the battery, consult with qualified service personnel.
- Please be aware that the contents of memory may at times be lost; when the unit is sent for repairs or when by some chance a malfunction has occurred.

[Additional Precautions]
- Protect the unit from strong impact.
- Do not allow objects or liquids of any kind to penetrate the unit. In the event of such an occurrence, discontinue use immediately. Contact qualified service personnel as soon as possible.
- Before using the unit in a foreign country, consult with qualified service personnel.
- Should a malfunction occur (or if you suspect there is a problem) discontinue use immediately. Contact qualified service personnel as soon as possible.
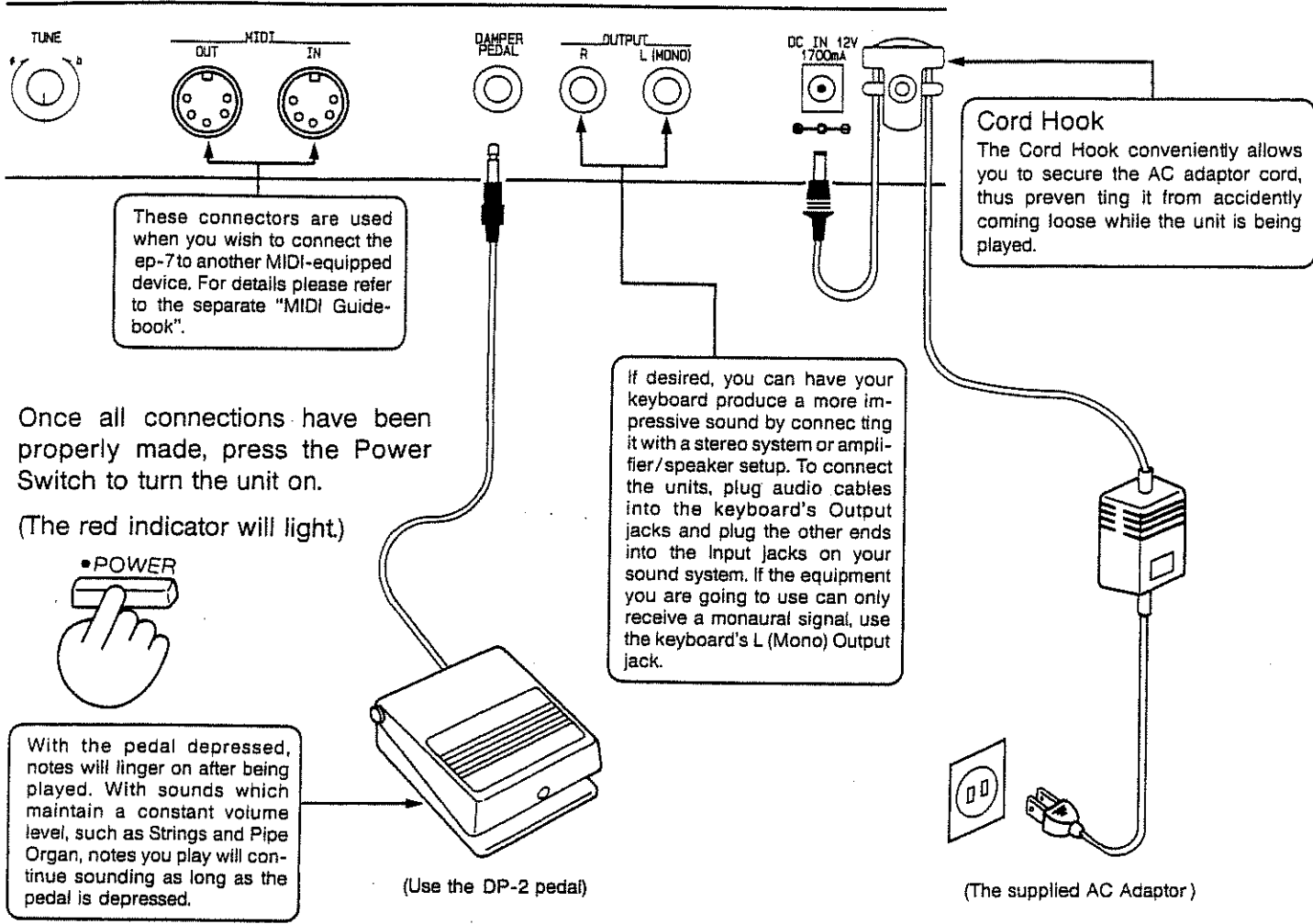
Specifications

KEYBOARD	76 weighted keys with touch-sensitivity.		Piece Selection Slider (PIECE): 1
MAX. POLYPHONY	24 notes	CONNECTORS/ JACKS	AC Adaptor Jack (DC IN): 1 MIDI IN Connector: 1 MIDI OUT Connector: 1 Damper Pedal Jack (DAMPER): 1 Output Jacks (OUTPUT L(MONO)/R) Headphone Jacks (PHONES): 2
VOICES	Five (Piano, Electric Piano, Vibraphone, Organ, Strings)		
EFFECTS	Chorus, Reverb		
RECORDER	Provides for recording and playback, as well as tempo changes. (Can record a maximum of 4 pieces, or approximately 1,600 notes.)	SPEAKERS	12 cm: 2
		OUTPUT	5 W: 2
MASTER TUNING	Range: approx. +/-50 cents	DIMENSIONS	1139(W) × 339(D) × 100(H) mm 3' 8-27/32"(W) × 1' 1-11/32"(D) × 3-15/16"(H)
BUTTONS	Power Switch (POWER): 1 Tempo Adjustment Buttons (▼TEMPO▲): 2 Recording Button (REC): 1 Playback Button (PLAY): 1 Voice Buttons (PIANO, E. PIANO, VIBRAPHONE, ORGAN, STRINGS) Chorus Button (CHORUS): 1 Reverb Button (REVERB): 1		
		WEIGHT	11 kg 24.3 lbs (Without AC adaptor)
		POWER CONSUMPTION	1700 mA (DC 12 V)
		SUPPLIED ACCESSORIES	Damper Pedal, AC Adaptor, Music Stand, Owner's Manual, MIDI Guidebook.
KNOBS/SLIDERS	Tuning Knob (TUNE): 1 Volume Control Slider (VOLUME): 1	OPTIONS	Keyboard Stand EP-AK-2E Headphones RH-12/100

* Specifications and/or external appearance of this product are subject to change without notice.
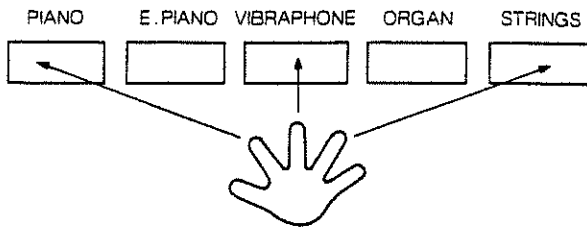
Making the Connections/Powering Up

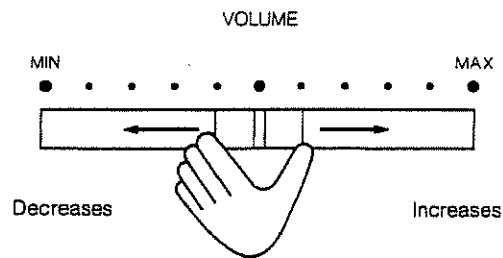Before making any connections, make sure you have the power on your instrument turned off.

TUNE — MIDI OUT IN — DAMPER PEDAL — OUTPUT R L (MONO) — DC IN 12V 1700mA

Cord Hook
The Cord Hook conveniently allows you to secure the AC adaptor cord, thus preven ting it from accidently coming loose while the unit is being played.

These connectors are used when you wish to connect the ep-7 to another MIDI-equipped device. For details please refer to the separate "MIDI Guidebook".

Once all connections have been properly made, press the Power Switch to turn the unit on.

(The red indicator will light.)

•POWER

If desired, you can have your keyboard produce a more impressive sound by connec ting it with a stereo system or amplifier/speaker setup. To connect the units, plug audio cables into the keyboard's Output jacks and plug the other ends into the Input jacks on your sound system. If the equipment you are going to use can only receive a monaural signal, use the keyboard's L (Mono) Output jack.

With the pedal depressed, notes will linger on after being played. With sounds which maintain a constant volume level, such as Strings and Pipe Organ, notes you play will continue sounding as long as the pedal is depressed.

(Use the DP-2 pedal)

(The supplied AC Adaptor)

Listening to the Demo

① Press PIANO, VIBRAPHONE and STRINGS simultaneously.

PIANO   E.PIANO   VIBRAPHONE   ORGAN   STRINGS

The demonstration song will start playing.

② Adjust the volume.

VOLUME

MIN   MAX

Decreases   Increases

③ To stop playback of the demo, press any Voice button.

PIANO   E.PIANO   VIBRAPHONE   ORGAN   STRINGS

Reverb Button

The reverb effect adds reverberation (a complex type of echo) to the notes you play, creating the ambience of a room that is more acoustically "alive". (When you press this button, its indicator will light, showing that the reverb effect is on).

* The instrument stores the Reverb settings (on or off) on an individual voice basis (including any selections where two voices have been layered). Once power is turned off, however, the default settings are restored.

Chorus Button

The chorus effect makes one instrument sound like several of the same instrument playing in ensemble, so your music will sound richer and more expansive. (When you press this button, its indicator will light, showing that the chorus effect is on).

* The instrument stores the Chorus setting (on or off) on an individual voice basis (including any selections where two voices have been layered). Once power is turned off, however, the default settings are restored.

Music Stand

A music stand is included in the packing carton. Attach it to the instrument as shown in the illustration to the left.

Voice Buttons

Provides selection of the sound you desire.

BUTTON	VOICE DESCRIPTION
PIANO	A realistic grand piano sound.
E. PIANO	The dazzling sound of an electric piano.
VIBRAPHONE	A refreshing vibraphone sound.
ORGAN	The sublime, impressive sound of a pipe organ
STRINGS	The sound of a string ensemble.

* If you wish, you can press two buttons at the same time — you can then play with the two voices layered together.

Volume Slider

Adjusts the volume obtained through the speakers or headphones. The further it is moved to the right, the greater the volume level becomes.

Power Switch

Turns power on and off. When the power is on, the indicator will be lit.

Headphone Jacks

The ep-7 can accommodate two sets of headphones at the same time. Once headphones are connected to either (or both) of these jacks, sound is no longer output from the speakers. This makes it ideal for times when you wish to play without disturbing those around you (late at night, for example).
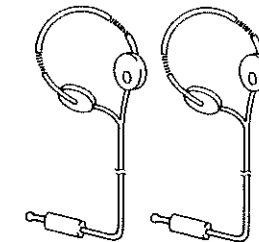
Tune Knob

This knob allows you to precisely adjust the pitch of the ep-7 so it matches that of some other instrument, useful when playing in an ensemble. When the knob is rotated clockwise, the pitch rises; when rotated counter-clockwise, it is lowe red.

* With the knob at the center position, the frequency of the A key in the middle of the key-board will be 440.0 Hz.

* By rotating the knob completely in either direction, you obtain a pitch change of about 50 cents (1/2 of a half step).

<Rear Panel>

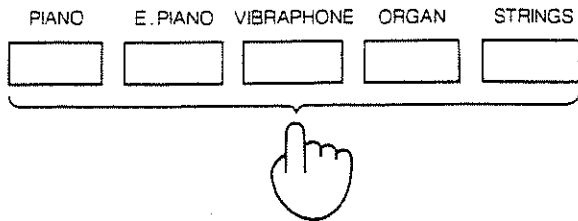→ See next page.

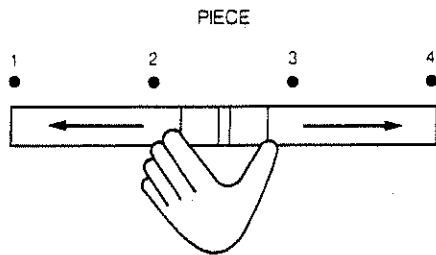(RH-12/100, etc. sold separately)
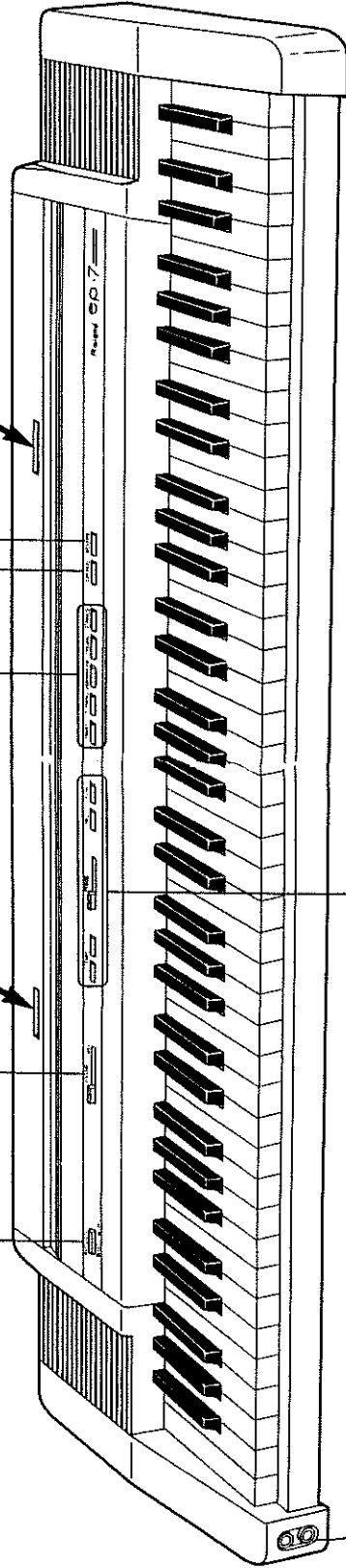
The Recorder

The Recorder allows you to capture what you play, and then listen to the playback whenever you like.

Recording

① Select the voice you intend to use.

PIANO	E.PIANO	VIBRAPHONE	ORGAN	STRINGS

② The ep-7 can accommodate four different pieces. Here you need to select the number of the piece that you are going to record.
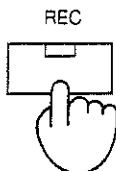
PIECE

1   2   3   4

③ Press the REC button.
(The red indicator will light.)

REC

④ Start playing. (The moment you begin playing, the recording will also start.)

⑤ When you are finished, press the REC button again. (The indicator will go out.)

REC

• **Everything you do while recording is in progress, including such things as changing voices or pressing the Chorus and Reverb buttons, will be faithfully recorded.**

• **The recording feature provides for a combined total (within all 4 pieces) of approximately 1,600 notes.**

☆ **When you are running out of space for additional notes...**

REC
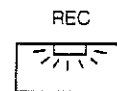
the red indicator on the REC button will start blinking.

☆ **And if you continue to record...**

REC
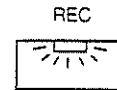
the REC button indicator will blink more rapidly.

☆ **When you reach the point where no more notes can be recorded...**

REC
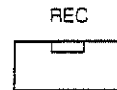
the indicator on the REC button goes out, and the recording stops automatically.

Playback

① Select the number of the piece you wish to hear.

PIECE

1   2   3   4
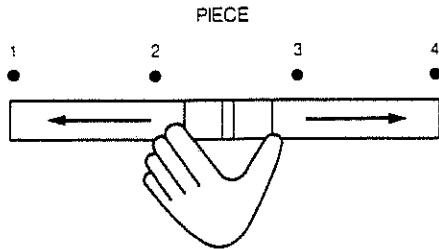
② Press the PLAY button.
Playback will begin.
(The green indicator will light.)

PLAY

When the end of the piece is reached, the playback mode stops automatically.
(The indicator goes out.)

Should you want to stop playback at any time, press the PLAY button.

☆ If you wish to alter the playback tempo...

TEMPO
▼   ▲

Decreases   Increases
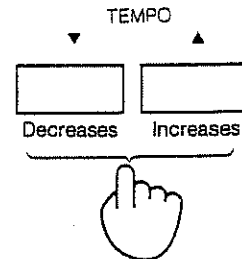
* When the power is turned off, the tempo reverts to that which the piece was originally recorded at.

● If you desire, you can play an accompaniment part (using any voice) while a recorded piece is being played back. This conveniently allows you to create an ensemble effect, even though you are playing by yourself.
For example, you could play a melody using STRINGS to accompany a recorded piano piece.

* Voices used in a recorded performance cannot be changed afterward.

To Erase Previously Recorded Pieces...

① Select the piece you wish to erase.

PIECE

1   2   3   4
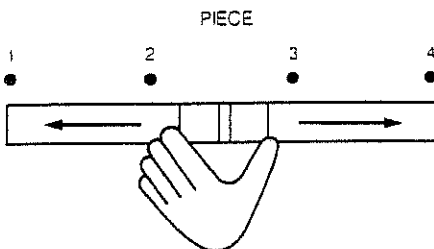
② Press the REC and PLAY buttons simultaneously: the piece will now be completely erased.

REC   PLAY
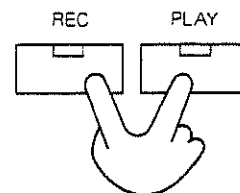
Roland ep·7 DIGITAL PIANO

MIDI GUIDEBOOK

Read This If You Intend To Use MIDI To Join Your Keyboard With Other Electronic Instruments or Computers

The term MIDI is an acronym for the "Musical Instrument Digital Interface." MIDI is a standard that was created to allow electronic musical instruments, computers and other devices to communicate with each other. The great majority of contemporary electronic instruments provide MIDI compatibility.

A device equipped with MIDI is easily identified by the fact that it has one or more MIDI Connectors. In order to share performance information with other units, cables need to be connected using these connectors.
The ep-7 has a MIDI IN connector, used to receive MIDI messages; and a MIDI OUT connector, from which it sends messages.

The MIDI feature makes possible applications such as below:
* **The notes you play on the ep-7 can be relayed and sounded simultaneously on other MIDI-equipped instruments or sound module (*1).**
* **The ep-7 can be sounded under the control of another MIDI-equipped keyboard, or a sequencer (*2).**
* **Everything you play on the ep-7 can be recorded into a sequencer (*2).**

(*1) A sound module is a device which generates sound as a result of whatever information it receives at its MIDI IN connector. In appearance it is often box-like. Among Roland products the MT-32 is probably the most well known.
(*2) A sequencer is a device which is capable of recording and playing back MIDI messages. The PR-100 Recorder is a representative example of a Roland sequencer. There is also the MT-100, which combines a sequencer and sound module in the same unit.

MIDI Connections

TUNE — MIDI OUT IN — DAMPER PEDAL — OUTPUT R L (MONO) — DC IN 12V 1700mA

From this connector MIDI messages are transmitted. If you wish to use the ep-7 to play the sounds of another MIDI compatible unit, such as a sound module; or want to send the information describing what you play to a sequencer for recording, connect a cable so it runs from here to the MIDI IN connector on the external device.

This connector is where MIDI messages are received. If you wish to have the ep-7 be played as a result of messages sent by a MIDI sequencer or other external unit, connect a cable so it runs from here to the MIDI OUT connector on the external device.

In order to make the connections between the connectors on two units, you will need to have at least one MIDI Cable. (MSC-15/25/50, sold separately.)
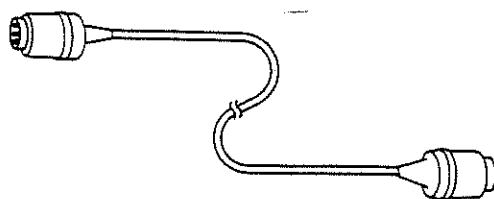
Example Setups

- Connecting a sound module, such as the MT-32

ep.7 — MIDI OUT IN   MT-32 — MIDI THRU OUT IN

- Connecting a sequencer

ep.7 — MIDI OUT IN   sequencer — IN OUT
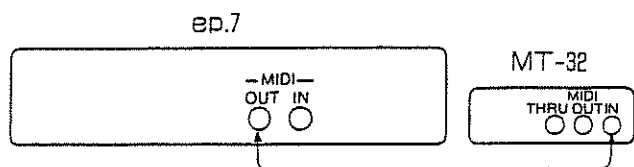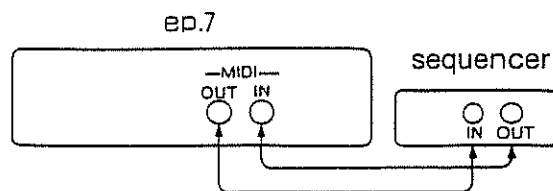
- Connecting the MT-100

ep.7 — MIDI OUT IN   MT-100 — MIDI THRU OUT IN
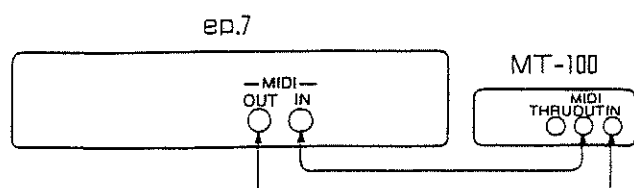
In a setup where the ep-7 is combined with a sequencer, the sequencer would usually be set at "Soft Thru ON." In this case, as explained below, the ep-7 should be set at "Local OFF."

With the cable connections between the ep-7 and the sequencer made as illustrated below, what you play can be recorded into the sequencer; and the sequencer can be played back to hear a reproduction of of what you played.
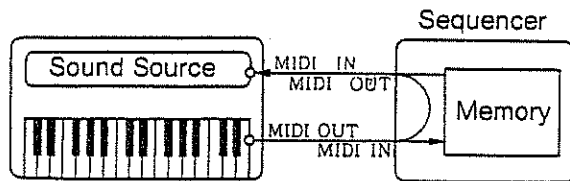
Sequencer

Take for example that "Soft Thru" on the sequencer is "ON", and Local is left at "ON" on the ep-7 — each note played will then sound twice. This may cause the music to sound somewhat strange, and can result in some notes being omitted.

Sequencer

Key pressed once,
yet note sounds twice.
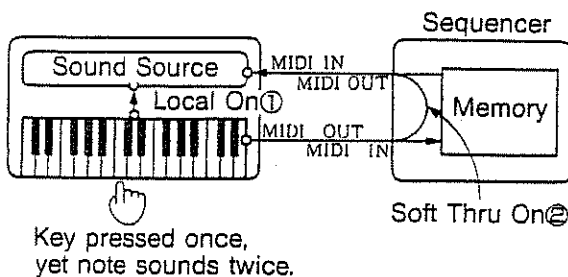
The reason the above occurs is because the keyboard's performance information reaches the sound source by means of two paths:
① The ep-7's internal circuitry.
② The "Soft Thru" feature on the sequencer, which when ON, wends from MIDI OUT a copy of everything received.
Since this situation is undesirable, path ① can be disabled. To do this the unit is set to "Local OFF". The ordinary condition — where path ① remains operative — is referred to as "Local ON".

LOCAL ON
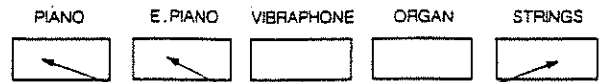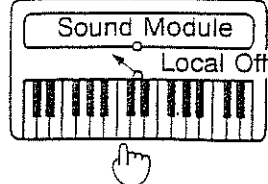Ordinary condition — the keyboard and the internal sound module are connected.
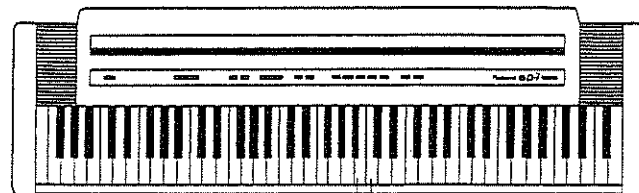
Sound is produced
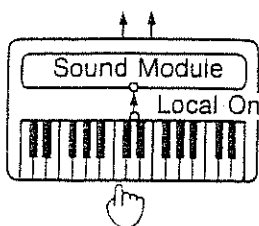
LOCAL OFF
Since there is no longer a connection between the keyboard and the internal sound module, when the keyboard is played no sound is produced.

No sound is produced

PIANO   E.PIANO   VIBRAPHONE   ORGAN   STRINGS

While holding these down, press the key for either "On" or "Off."

On Off

ON: Local On
OFF: Local Off
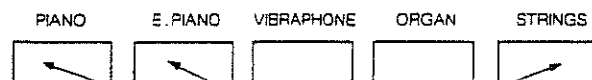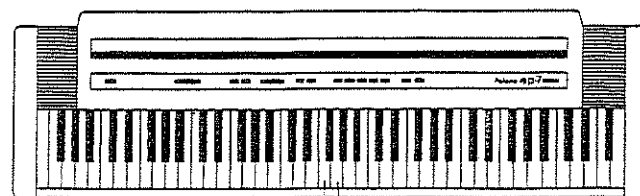
*Each time power is turned on this setting will always be at "ON."

When set to "Omni On", MIDI messages received on any of the channels will result in sound being produced.

With the ep-7 set to Omni On, when data is received from a sequencer or other device you will be able to hear all the performance data for all the channels played at the same time. This makes it convenient for times when you wish to check how a complete arrangement sounds.

PIANO   E.PIANO   VIBRAPHONE   ORGAN   STRINGS

While holding these down, press the key for either "On" or "Off."

On Off

ON: Omni On
OFF: Omni Off

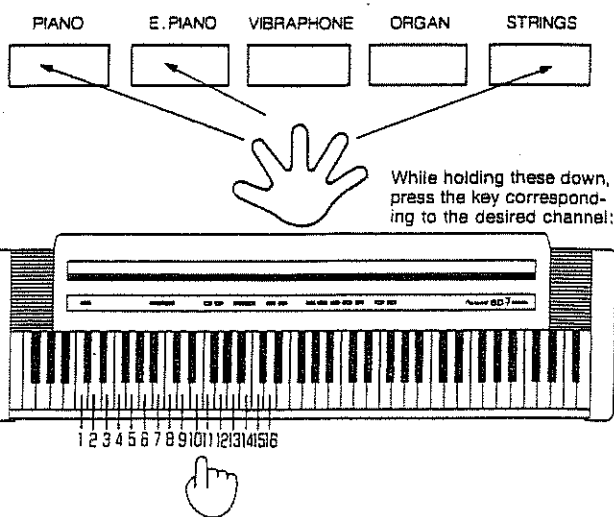*Each time power is turned on, the instrument will be at "Off."
*This setting switches to Omni Off whenever selection of a particular Receive channel is made.
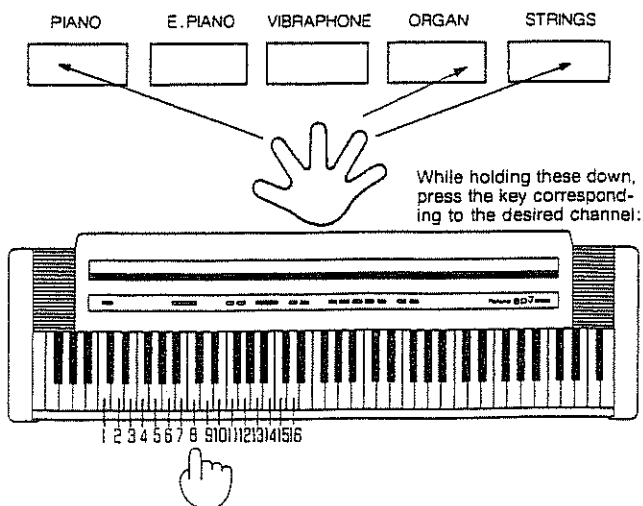
Setting the MIDI Channel

MIDI communication takes place on separate channels (MIDI Channels), numbered from 1 through 16. The channel used by the transmitting unit must be matched with that used by the receiving unit. Only then will sound be produced as expected.

- In a setup where you wish to play the ep-7 and also have another MIDI-equipped instrument or sound module play the same notes, you first should set the channel used for reception on your external device to the same channel that you have the ep-7 set to use for transmission.

- If using another MIDI keyboard as a master instrument, and you wish to have the ep-7 played by it, you would need to set the channel used for reception on the ep-7 to the same channel that the master keyboard will be transmitting on.

- When wishing to have a sequencer play the ep-7, you need to set the channel used for reception on the ep-7 to the same channel that the recorded MIDI data is set to use.

Setting the Channel Used for Transmission

PIANO   E.PIANO   VIBRAPHONE   ORGAN   STRINGS

While holding these down, press the key corresponding to the desired channel:

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Setting the Channel Used for Reception

PIANO   E.PIANO   VIBRAPHONE   ORGAN   STRINGS

While holding these down, press the key corresponding to the desired channel:

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

* Each time power is turned on, the unit defaults to "1" as the channel used for both transmission and reception.

Turning Transmission/Reception of Program Changes On and Off

Program Change messages basically state something to this effect: "A change has been made to the number such-and-such voice." They do not convey any further specifics about the voice, such as "The voice to which a change has been made is named Piano."
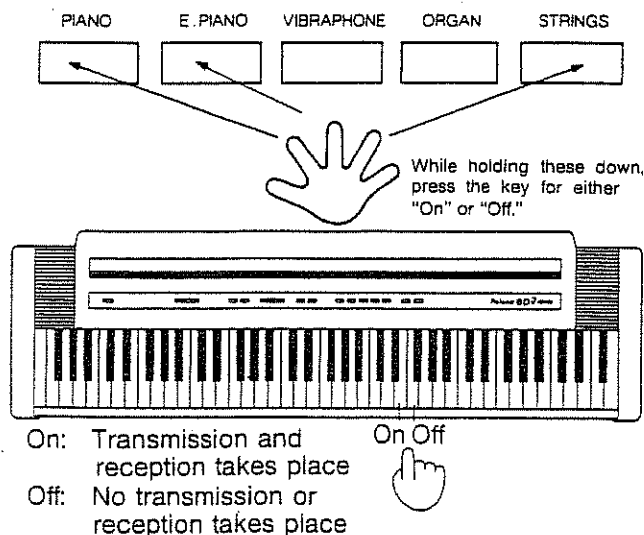
An instrument sends out a Program Change whenever a change in the voice being used is made. The Program Change is sent as a number which has been assigned to a certain voice. Such numbers and what they mean in terms of specific voices can vary from instrument to instrument. When another device receives a Program Change message, it will respond based on the number and what it means on that instrument — it changes to the voice that it uses for that particular number.

For this reason, it is entirely possible that on the master keyboard you could change to "Piano" and yet another instrument would begin sounding using "Vibraphone."
Correspondence charts can be referred to beforehand to avoid such surprises.

The setting shown here allows you to turn off Program Change communication. When off, the ep-7 no longer will transmit Program Change messages when its Voices are changed. Also, if the ep-7 should receive Program Changes sent from another unit, no change is made in its voices.

It should be so to "Off" if, for example, you want a connected unit to always use a particular voice while you play using a variety of voices on the ep-7.

PIANO   E.PIANO   VIBRAPHONE   ORGAN   STRINGS

While holding these down, press the key for either "On" or "Off."

On Off

On: Transmission and reception takes place
Off: No transmission or reception takes place

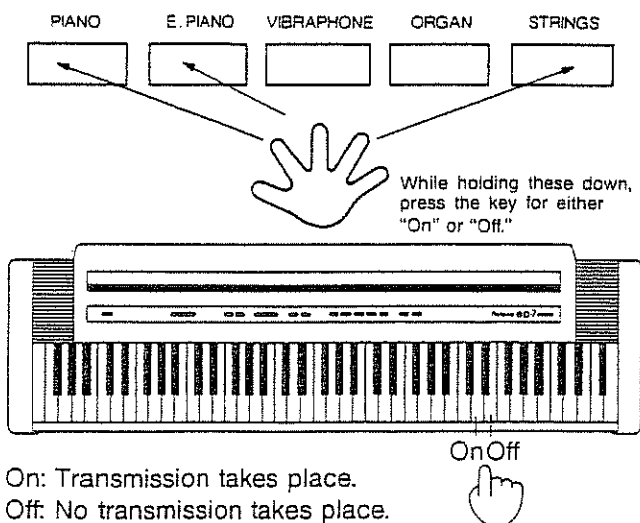* Each time power is turned on the instrument will always be at "On."

* The ep-7 considers a combination of two Voices selected together as a separate Voice with a unique Program Change number. Moreover, it assigns individual numbers to every possible combination of a Voice plus Chorus, Reverb or both. (Please see the "Program Change Number Chart.")

Prog. Chg. No.	VOICE	EFFECT	Prog. Chg. No.	VOICE	EFFECT
01	Piano	(No Effect)	31	Piano+Organ	(Reverb)
02	Piano	(Chorus)	32	Piano+Organ	(Chorus+Reverb)
03	Piano	(Reverb)	33	Piano+Strings	(No Effect)
04	Piano	(Chorus+Reverb)	34	Piano+Strings	(Chorus)
05	E. Piano	(No Effect)	35	Piano+Strings	(Reverb)
06	E. Piano	(Chorus)	36	Piano+Strings	(Chorus+Reverb)
07	E. Piano	(Reverb)	37	E. Piano+Vibraphone	(No Effect)
08	E. Piano	(Chorus+Reverb)	38	E. Piano+Vibraphone	(Chorus)
09	Vibraphone	(No Effect)	39	E. Piano+Vibraphone	(Reverb)
10	Vibraphone	(Chorus)	40	E. Piano+Vibraphone	(Chorus+Reverb)
11	Vibraphone	(Reverb)	41	E. Piano+Organ	(No Effect)
12	Vibraphone	(Chorus+Reverb)	42	E. Piano+Organ	(Chorus)
13	Organ	(No Effect)	43	E. Piano+Organ	(Reverb)
14	Organ	(Chorus)	44	E. Piano+Organ	(Chorus+Reverb)
15	Organ	(Reverb)	45	E. Piano+Strings	(No Effect)
16	Organ	(Chorus+Reverb)	46	E. Piano+Strings	(Chorus)
17	Strings	(No Effect)	47	E. Piano+Strings	(Reverb)
18	Strings	(Chorus)	48	E. Piano+Strings	(Chorus+Reverb)
19	Strings	(Reverb)	49	Vibraphone+Organ	(No Effect)
20	Strings	(Chorus+Reverb)	50	Vibraphone+Organ	(Chorus)
21	Piano+E. Piano	(No Effect)	51	Vibraphone+Organ	(Reverb)
22	Piano+E. Piano	(Chorus)	52	Vibraphone+Organ	(Chorus+Reverb)
23	Piano+E. Piano	(Reverb)	53	Vibraphone+Strings	(No Effect)
24	Piano+E. Piano	(Chorus+Reverb)	54	Vibraphone+Strings	(Chorus)
25	Piano+Vibraphone	(No Effect)	55	Vibraphone+Strings	(Reverb)
26	Piano+Vibraphone	(Chorus)	56	Vibraphone+Strings	(Chorus+Reverb)
27	Piano+Vibraphone	(Reverb)	57	Organ+Strings	(No Effect)
28	Piano+Vibraphone	(Chorus+Reverb)	58	Organ+Strings	(Chorus)
29	Piano+Organ	(No Effect)	59	Organ+Strings	(Reverb)
30	Piano+Organ	(Chorus)	60	Organ+Strings	(Chorus+Reverb)

# Turning On/Off Transmission of MIDI During Recorder Playback

When the setting shown below is turned "On," you get the performance information for your recordings to be transmitted from MIDI OUT while playback takes place. This conveniently allows you to have any connected sound generating units also play a piece you have recorded.

On: Transmission takes place.
Off: No transmission takes place.

*Each time power is turned on this setting will always be at "Off."

Turning Transmission/Reception of Damper Messages On and Off

When the setting shown below is switched to "Off," Damper messages (Hold 1: Control Change No. 64) will no longer be transmitted when a pedal connected to the ep-7 is depressed. Also, should any external device send Damper messages, they will have no effect: sounds playing on the ep-7 will not be sustained.

On: Transmission and reception takes place
Off: No transmission or reception takes place
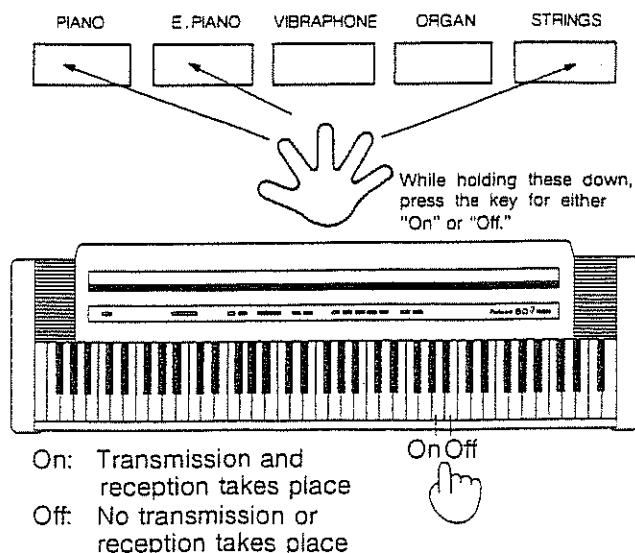
*Each time power is turned on this setting will always be at "On."

MIDI Implementation Chart

Function ···		Transmitted	Recognized	Remarks
Basic Channel	Default	1	1	
	Changed	1 − 16	1 − 16	
Mode	Default	Mode 3	Mode 3	
	Messages	×	Omni Off, Poly	
	Altered	✽ ✽ ✽ ✽ ✽ ✽ ✽ ✽		
Note Number		28 − 103	21 − 108 ∗2	
	True Voice	✽ ✽ ✽ ✽ ✽ ✽ ✽ ✽	21 − 108 ∗2	
Velocity	Note ON	○ v = 1 − 127	○ v = 1 − 127	
	Note OFF	○ v = 1 − 127	×	
After Touch	Key's	×	×	
	Ch's	×	×	
Pitch Bender		×	×	
Control Change	64	∗1	∗1	Hold 1
	121	×	○	Reset All Controllers
Prog Change		∗1 (0 − 59)	∗1 (0 − 59)	
	True #	✽ ✽ ✽ ✽ ✽ ✽ ✽ ✽	0 − 59	
System Exclusive		×	×	
System Common	Song Pos	×	×	
	Song Sel	×	×	
	Tune	×	×	
System Real Time	Clock	×	×	
	Commands	×	×	
Aux Messages	Local ON/OFF	×	○	
	All Notes OFF	×	○	
	Active Sense	○	○	
	Reset	×	×	
Notes		∗1 Can be set to ○ or × manually. ∗2 21 − 107 (Strings is selected).		

Mode 1 : OMNI ON, POLY   Mode 2 : OMNI ON, MONO   ○ : Yes

Mode 3 : OMNI OFF, POLY   Mode 4 : OMNI OFF, MONO   × : No

Information

●When you need repair service, call your local Roland Service Station or the authorized Roland distributor in your country as shown below.

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Service Rd. N.,
St Laurent, Quebec H4S 1V3
CANADA
☎ (514)335 - 2009

Roland Canada Music Ltd.
346 Watline Avenue,
Mississauga, Ontario L4Z 1X2
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Roland Corporation
(Australia)Pty. Ltd.
(Head Office)
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Dee Why West. NSW 2099
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☎ (02)982 - 8266

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50 Garden Street
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West Cross Centre, Brentford,
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Handelsgesellschaft mbH.
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Roland Benelux N. V.
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S - 131 30 Nacka,
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SWITZERLAND
☎ 061/98 60 55
Repair Service by Musitronic AG

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102, Avenue Jean - Jaures
69007 Lyon Cedex 07
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☎ (7)858 - 54 60

Musikengro
(Paris Office)
Centre Region Parisienne
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