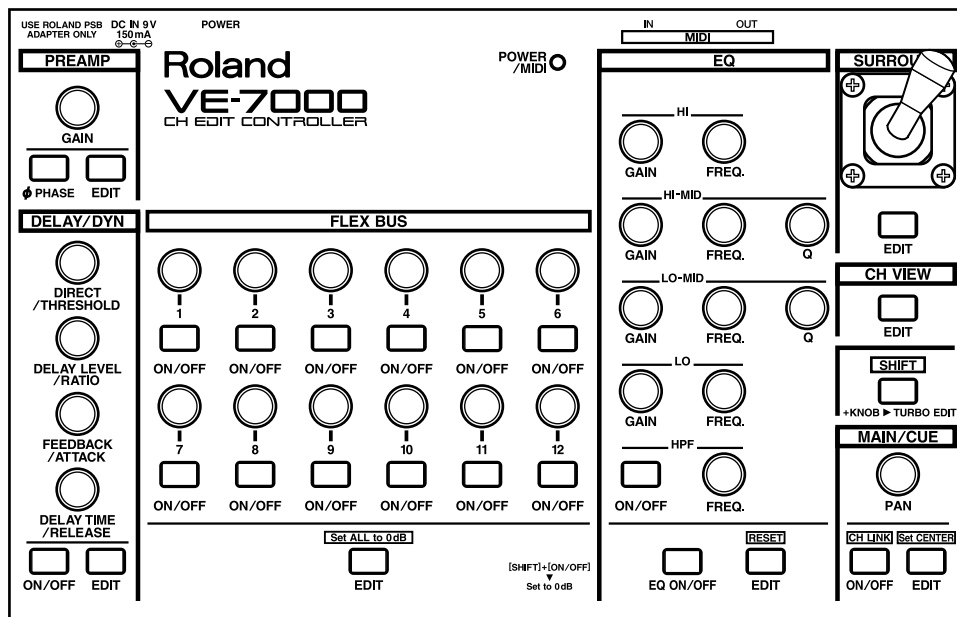# Roland®

CH EDIT CONTROLLER
VE-7000

Owner's Manual

Before using this unit, carefully read the sections entitled: "USING THE UNIT SAFELY" and "IMPORTANT NOTES" (Owner's Manual p. 2, 3; p. 5). These sections provide important information concerning the proper operation of the unit. Additionally, in order to feel assured that you have gained a good grasp of every feature provided by your new unit, Owner's Manual should be read in its entirety. The manual should be saved and kept on hand as a convenient reference.

USING THE UNIT SAFELY

INSTRUCTIONS FOR THE PREVENTION OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

About ⚠WARNING and ⚠CAUTION Notices

⚠WARNING	Used for instructions intended to alert the user to the risk of death or severe injury should the unit be used improperly.
⚠ CAUTION	Used for instructions intended to alert the user to the risk of injury or material damage should the unit be used improperly. * Material damage refers to damage or other adverse effects caused with respect to the home and all its furnishings, as well to domestic animals or pets.

About the Symbols

⚠	The △ symbol alerts the user to important instructions or warnings.The specific meaning of the symbol is determined by the design contained within the triangle. In the case of the symbol at left, it is used for general cautions, warnings, or alerts to danger.
🚫	The ○ symbol alerts the user to items that must never be carried out (are forbidden). The specific thing that must not be done is indicated by the design contained within the circle. In the case of the symbol at left, it means that the unit must never be disassembled.
⬤	The ● symbol alerts the user to things that must be carried out. The specific thing that must be done is indicated by the design contained within the circle. In the case of the symbol at left, it means that the power-cord plug must be unplugged from the outlet.

-------------------------------------- **ALWAYS OBSERVE THE FOLLOWING** --------------------------------------

⚠WARNING

• Before using this unit, make sure to read the instructions below, and the Owner's Manual.

• Do not open (or modify in any way) the unit or its AC adaptor.

• Do not attempt to repair the unit, or replace parts within it (except when this manual provides specific instructions directing you to do so). Refer all servicing to your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page.
....
• Never use or store the unit in places that are:
  • Subject to temperature extremes (e.g., direct sunlight in an enclosed vehicle, near a heating duct, on top of heat-generating equipment); or are
  • Damp (e.g., baths, washrooms, on wet floors); or are
  • Humid; or are
  • Exposed to rain; or are
  • Dusty; or are
  • Subject to high levels of vibration.
....
• Make sure you always have the unit placed so it is level and sure to remain stable. Never place it on stands that could wobble, or on inclined surfaces.
....
• Be sure to use only the AC adaptor supplied with the unit. Also, make sure the line voltage at the installation matches the input voltage specified on the AC adaptor's body. Other AC adaptors may use a different polarity, or be designed for a different voltage, so their use could result in damage, malfunction, or electric shock.
....

⚠WARNING

• Do not excessively twist or bend the power cord, nor place heavy objects on it. Doing so can damage the cord, producing severed elements and short circuits. Damaged cords are fire and shock hazards!
....
• Do not allow any objects (e.g., flammable material, coins, pins); or liquids of any kind (water, soft drinks, etc.) to penetrate the unit.

• Immediately turn the power off, remove the AC adaptor from the outlet, and request servicing by your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page when:
  • The AC adaptor, the power-supply cord, or the plug has been damaged; or
  • Objects have fallen into, or liquid has been spilled onto the unit; or
  • The unit has been exposed to rain (or otherwise has become wet); or
  • The unit does not appear to operate normally or exhibits a marked change in performance.
....
• In households with small children, an adult should provide supervision until the child is capable of following all the rules essential for the safe operation of the unit.
....
• Protect the unit from strong impact. (Do not drop it!)
....

⚠ **WARNING**

- Do not force the unit's power-supply cord to share an outlet with an unreasonable number of other devices. Be especially careful when using extension cords—the total power used by all devices you have connected to the extension cord's outlet must never exceed the power rating (watts/amperes) for the extension cord. Excessive loads can cause the insulation on the cord to heat up and eventually melt through.

....

- Before using the unit in a foreign country, consult with your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page.

....

⚠ **CAUTION**

- The unit and the AC adaptor should be located so their location or position does not interfere with their proper ventilation.

....

- Always grasp only the plug on the AC adaptor cord when plugging into, or unplugging from, an outlet or this unit.

....

- Whenever the unit is to remain unused for an extended period of time, disconnect the AC adaptor.

....

- Try to prevent cords and cables from becoming entangled. Also, all cords and cables should be placed so they are out of the reach of children.

....

- Never climb on top of, nor place heavy objects on the unit.

- Never handle the AC adaptor or its plugs with wet hands when plugging into, or unplugging from, an outlet or this unit.

....

- Before moving the unit, disconnect the AC adaptor and all cords coming from external devices.

....

- Before cleaning the unit, turn off the power and unplug the AC adaptor from the outlet (p. 5).

- Whenever you suspect the possibility of lightning in your area, disconnect the AC adaptor from the outlet.

....

Contents

IMPORTANT NOTES

In addition to the items listed under "USING THE UNIT SAFELY" on page 2, please read and observe the following:

Power Supply

- Do not use this unit on the same power circuit with any device that will generate line noise (such as an electric motor or variable lighting system).

- The AC adaptor will begin to generate heat after long hours of consecutive use. This is normal, and is not a cause for concern.

- Before connecting this unit to other devices, turn off the power to all units. This will help prevent malfunctions and/or damage to speakers or other devices.

Placement

- This device may interfere with radio and television reception. Do not use this device in the vicinity of such receivers.

- To avoid possible breakdown, do not use the unit in a wet area, such as an area exposed to rain or other moisture.

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 cloth impregnated with a mild, non-abrasive detergent. Afterwards, be sure to wipe the unit thoroughly with a soft, dry cloth.

- Never use benzine, thinners, alcohol or solvents of any kind, to avoid the possibility of discoloration and/or deformation.

Additional Precautions

- Use a reasonable amount of care when using the unit's buttons, sliders, or other controls; and when using its jacks and connectors. Rough handling can lead to malfunctions.

- When connecting / disconnecting all cables, grasp the connector itself—never pull on the cable. This way you will avoid causing shorts, or damage to the cable's internal elements.

- To avoid disturbing your neighbors, try to keep the unit's volume at reasonable levels (especially when it is late at night).

- When you need to transport the unit, package it in the box (including padding) that it came in, if possible. Otherwise, you will need to use equivalent packaging materials.

Main features

The VE-7000 is a channel edit controller that enables a revolutionary leap in efficiency when operating the channel parameters of a VM-C7200/C7100 V-series mixing console (subsequently referred to as the VM Console) connected via MIDI.
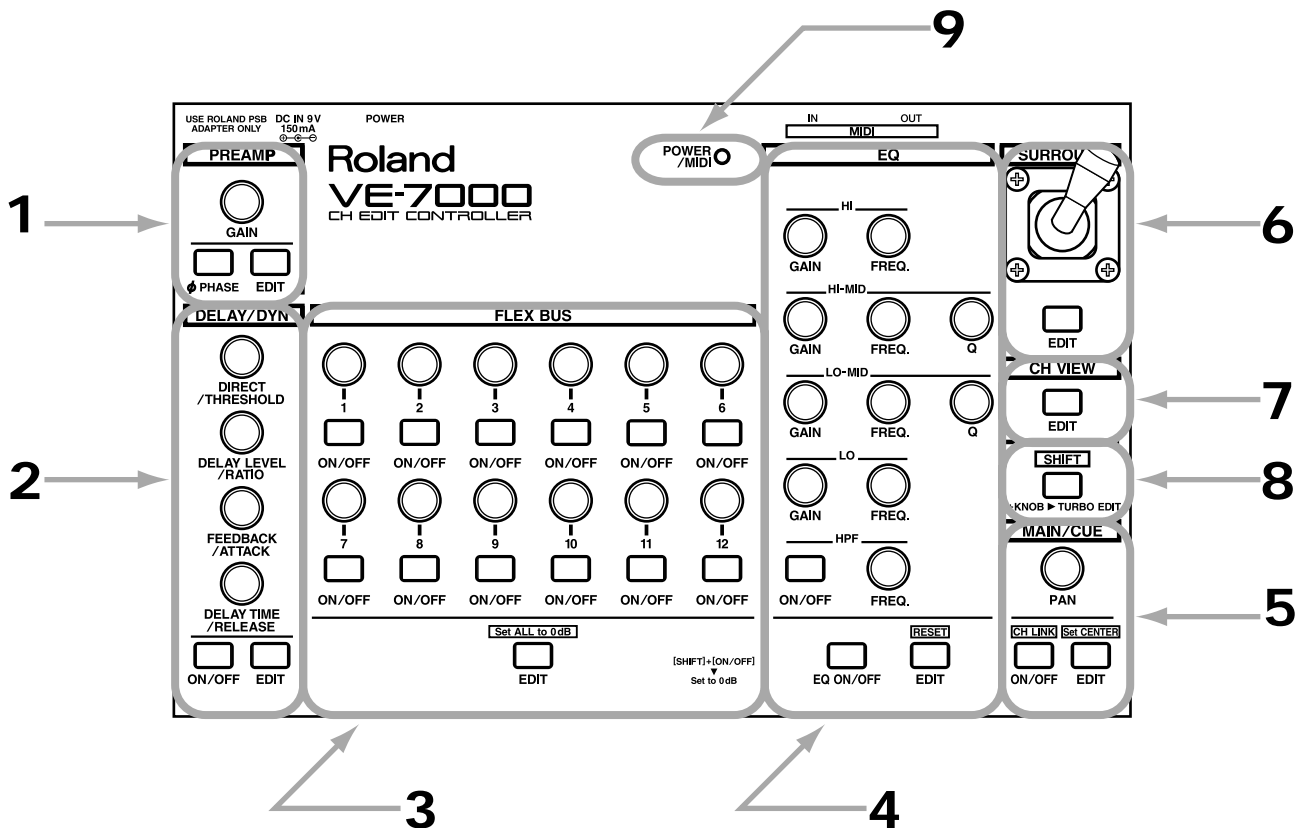The VE-7000 has the following features.

- Analog-feel operating panel for realtime control
  29 rotary encoders and 25 buttons are arranged in a space-saving configuration.
  Main parameters such as "GAIN," "DYNAMICS," "EQ," and "SEND" of the desired input channel can be controlled simultaneously in analog-like operation.

- Joystick
  A joystick can be used for surround panning.

- Compact
  The VE-7000 can be easily placed in a vacant area of the VM-C7200 (console) and held in place with a rubber magnet.

- Easy connection
  A single MIDI cable is all you need for basic connection.

Names of Things and What They Do

Front panel

The front panel is divided into the areas shown below.

1
PREAMP AREA

Control the parameters of the channel edit PREAMP page.

2
DELAY/DYN AREA

Control the parameters of the channel edit DELAY/DN page.

3
FLEX BUS AREA
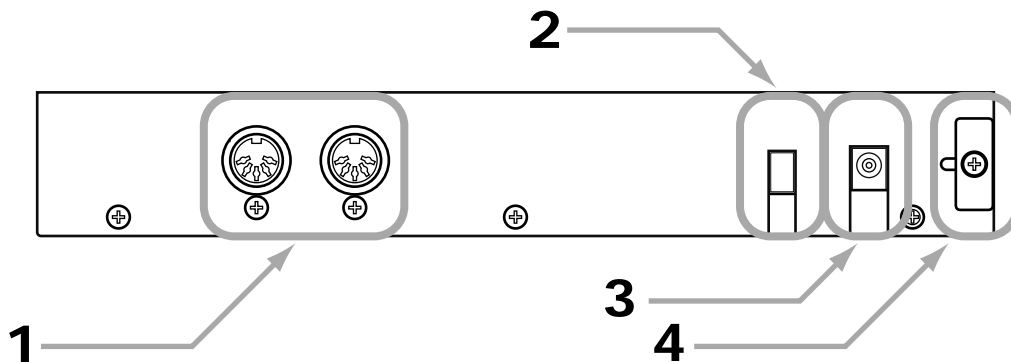
Control the parameters of the channel edit FLEX BUS page.

4
EQ AREA

Control the parameters of the channel edit EQ BAND
(or EQ GAIN) page.

5 MAIN/CUE AREA

Control the parameters of the channel edit MAIN/CUE page.

6 SURROUND AREA

Control the parameters of the channel edit SURROUND page.

7 CH VIEW AREA

Access the CH VIEW page and switch screens.

8 [SHIFT] button

Used when executing SHIFT functions.

9 POWER/MIDI Indicator

This will light when the power is on. This will blink when
MIDI messages are received at the MIDI IN connector.

Rear panel

1 MIDI connectors (MIDI IN/OUT)

These connectors are used to connect MIDI devices.
MIDI OUT is normally connected to the MIDI IN connector of the device being controlled by the VE-7000, such as the VM Console.
MIDI messages received at MIDI IN will be output ("thru'ed") without change from MIDI OUT. Use this when you wish to send MIDI messages such as MTC (MIDI Time Code) from an external MIDI device to the VM Console.
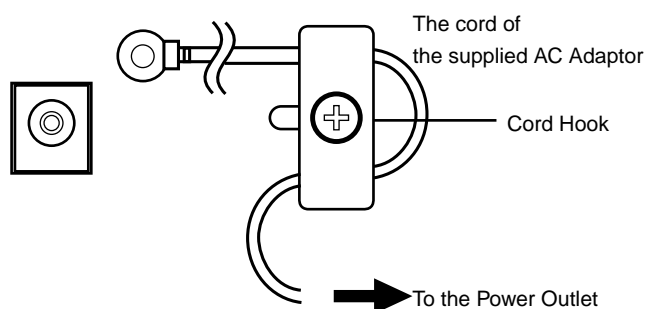
2 POWER

This turns the power of the VE-7000 on/off.

3 AC Adapter Jack (DC IN)

Connect the included "PSB-1U" AC adapter to this jack. Never use any other AC adapter.

4 Cable Hook

Hook the cable of the "PSB-1U" AC adapter around this hook to prevent accidental disconnection.

The cord of
the supplied AC Adaptor

Cord Hook

To the Power Outlet

NOTE
To prevent malfunction and/or damage to speakers or other devices, always turn down the volume, and turn off the power on all devices before making any connections.

NOTE
To prevent the inadvertent disruption of power to your unit (should the plug be pulled out accidentally), and to avoid applying undue stress to the AC adaptor jack, anchor the power cord using the cord hook, as shown in the illustration.

Before you begin

Update the VM Console

In order to connect the VE-7000 to a V-mixing console and use it as a controller, the VM Console must be using system version 1.520 or higher and VM processor must be using unit1 (and 2) version 1.500.
Use the following procedure to check the version of your VM Console. Then, if necessary, perform the update as described in the following section "Updating the VM Console system version."
The "VM-7000 update card" required for the update is included with the VE-7000.

Notes when updating

The update procedure will erase all data from the project, library, and system user areas, and will return the unit to the factory settings.
Before you perform the update, save any important data, and restore the data after the update is completed.

Basic work flow

Check the version → save your data → perform the update → check the version → restore your data

Update procedure

Check the version

1 Turn on the power of the VM Console and processor as usual.

2 Hold down [on Display], and press MEMORY/RECALL area [9].

3 The current version will be displayed. Verify that unit1 (and 2) in "System Version:" is 1.500 or higher.

4 When you press any button on the panel, the previous display will reappear.

5 Turn off the power of the VM System.

NOTE
Take the procedure of Update B if the current "System Version" is under 1.500.

Save your data

1 Insert the data memory card (2--16 MB) that you normally use.

2 Turn on the power of the console.

3 Hold down [SHIFT] and press [STORE (UNDO/REDO)].

4 Press [F4 (OK). The project will be stored.

Perform the update - Update A (in case that unit 1(and 2) in "System Version" is 1.500 and higher)

1 Insert the supplied update memory card.

2 Turn on the power of the console. The display will indicate "Welcome to SSFDC program update," and the update will begin automatically.

3 When the update is completed, the system will start up automatically.

4 Remove the update memory card and keep it in a safe place.

Perform the update - Update B (in case that unit 1(and 2) in "System Version" is under 1.500)

1 Insert the supplied update memory card.

2 Hold down [PROJECT] and [F5], and turn on the power of the console.

NOTE
Take the procedure of Update B if the current "System Version" is under 1.500.

NOTE
When the console has already newest system program, the system does not begin update.

NOTE
Never turn off the power or remove the memory card while the update is taking place. Doing so will damage the internal system program, making it impossible to start up correctly.

NOTE
Take the procedure of Update A if the current "System Version" is 1.500 and higher.

_3_ Release the buttons when "＊＊＊＊" is indicated in the display.

_4_ Turn off the power of the VM system when "VM-7000 updated. Reboot Please" is indicated in the display.

_5_ Remove the update memory card and keep it in a safe place.

Check the version

_1_ Take the procedure specified in "Check the version"(p. 10) in order to check the current version.

_2_ The current version will be displayed. Verify that "System Version" is 1.520 and higher and unit1 (and 2) in "System Version" is 1.500 and higher.

_3_ When you press any button on the panel, the previous display will reappear.

Restore your data

_1_ Insert the memory card (2--16 MB) that you used to save your data.

_2_ Press [PROJECT].

_3_ Choose "SELECT."

_4_ Use the V1 knob (SELECT NUMBER) to select the project that you stored.

_5_ Press [SELECT].

_6_ Press [F5 (OK)]. The project will be loaded.

NOTE

Never turn off the power or remove the memory card while the update is taking place. Doing so will damage the internal system program, making it impossible to start up correctly.
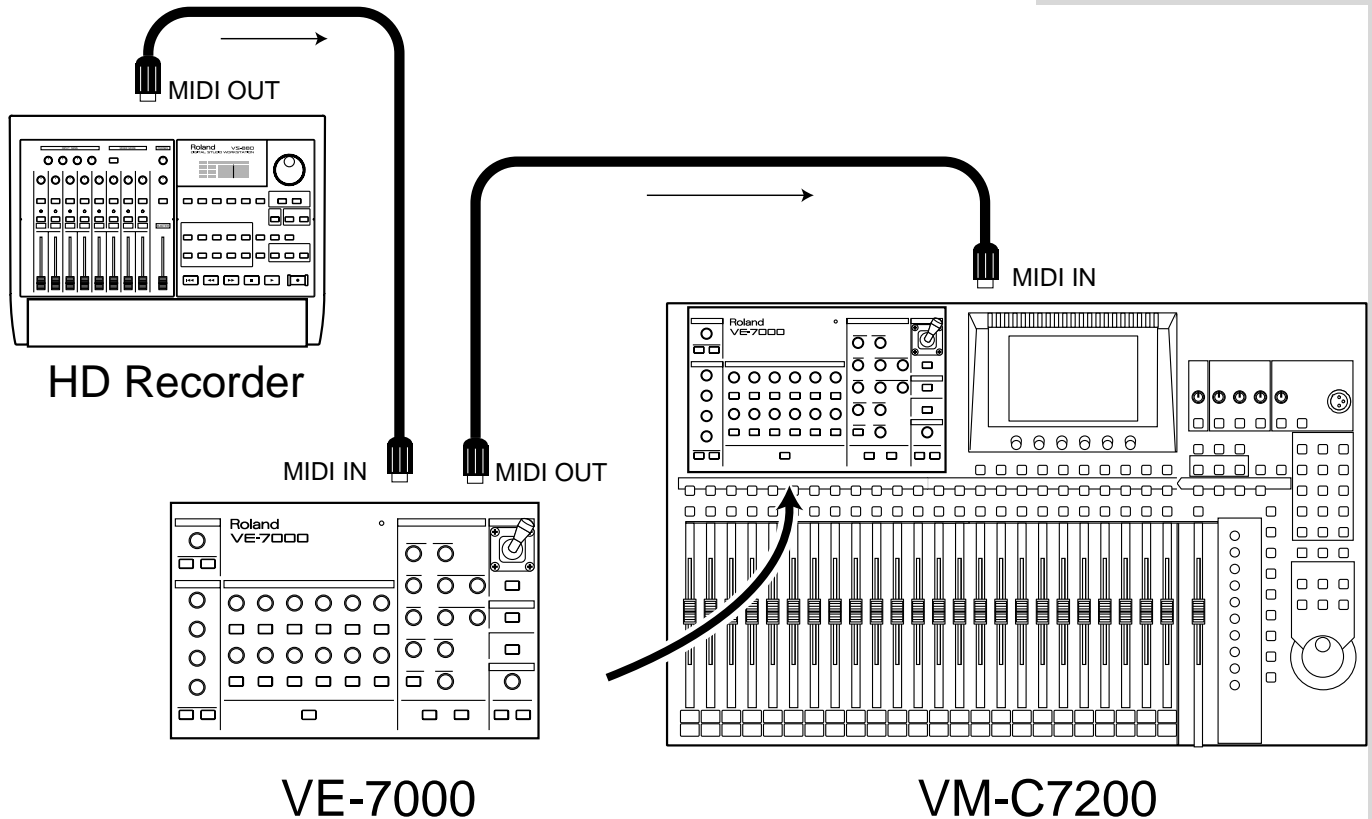
7 Hold down [SHIFT] and press [PROJECT]. The SYSTEM MENU will appear.

8 Select "MEMORY CARD."

9 Select the "LIBRARY" page.

10 In LOAD/SAVE TARGET, turn EQ, DELAY, CHANNEL, EFFECTS, and EZ ROUTING TEMPLATE all ON (highlighted in black).

11 In COMMAND, press [LOAD (F5)].

12 Press [OK (F5)]. All libraries will be loaded.

This completes the update procedure.
If you are using two consoles, perform the update procedure for the second console in the same way.

Make connections

Connect the necessary devices as shown in the following diagram.

MIDI OUT

HD Recorder

MIDI IN   MIDI OUT   MIDI IN

VE-7000   **VM-C7200**

Use a MIDI cable to connect the VE-7000's MIDI OUT to the MIDI IN of the device (e.g., VM Console) that you wish to control from the VE-7000.
If you wish to use the VE-7000 to control another device, such as an additional VM Console, connect the device to the MIDI IN of the VE-7000.
MIDI messages that are input to the VE-7000's MIDI IN will be re-transmitted without change from MIDI OUT, and sent to the MIDI IN of the VM Console or other device being controlled by the VE-7000.

NOTE

To prevent malfunction and/or damage to speakers or other devices, always turn down the volume, and turn off the power on all devices before making any connections.

Placing the VE-7000 on the VM Console

If you are using the VE-7000 with a "VM-C7200" VM Console, place it at the left of the display area. The rubber magnet on the bottom of the unit will hold it in place.
Since you will need to view the display area of the VM Console (or other device) being controlled as you operate the VE-7000, we recommend that you place it as close to the display area as possible.
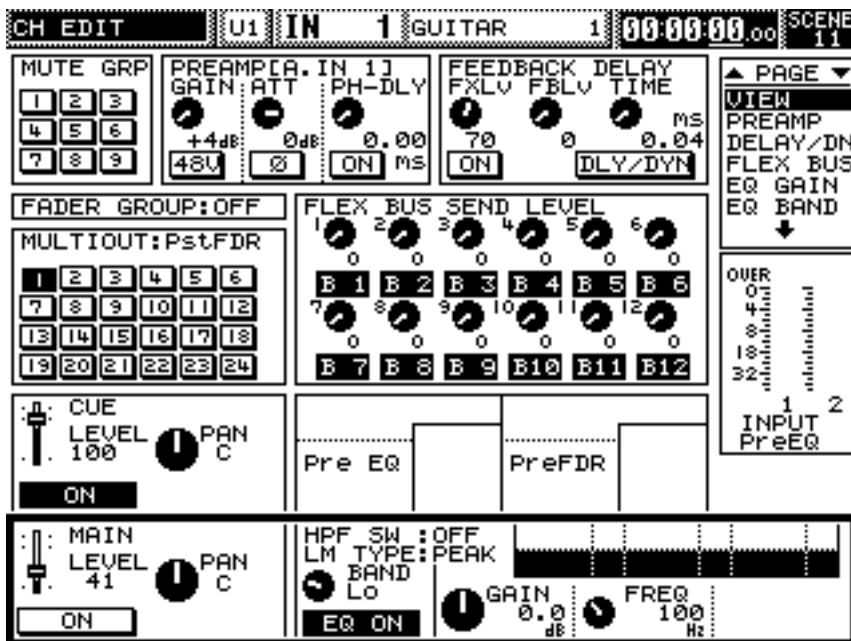
Turning on the power

1 Turn on the power of the peripherals.

2 Turn on the POWER of VE-7000. Make sure that the POWER/ MIDI indicator lights.

Basic operation (connected to the VM Console)

Screens in which the VE-7000 can be operated

Operations on the VE-7000 will be valid when the display of the VM Console is in the following states.

When either [INPUT CH1-24], [MULTI IN CH1-24], or [FLEX BUS MASTER 1-12] is selected and the channel edit screen is displayed.

△ NOTE
This unit is equipped with a protection circuit. A brief interval (a few seconds) after power up is required before the unit will operate normally.
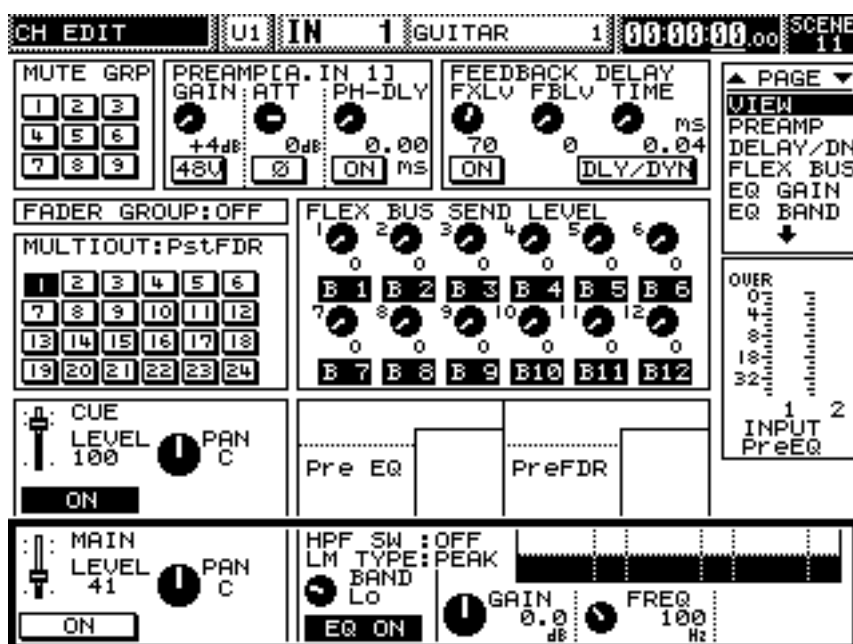

What is the channel edit screen?

This is a screen where the parameters of the desired channel are edited. Access it by pressing [CH EDIT] on the VM Console. The title area in the upper left of the display will indicate "CH EDIT."

△ NOTE
Joystick operations will be valid only when the channel edit "SURROUND" page is accessed.

Operations in the CH VIEW screen

You can edit the various parameters in the channel edit CH VIEW page.
Accessing the CH VIEW page

1 Press SECTION [INPUT] (or [MULTI IN] or [FLEX BUS MASTER]).

2 Press [CH EDIT] for the channel that you wish to edit. The unit will be in channel edit mode.

3 Use [PAGE UP][PAGE DOWN] to select VIEW.

In this state, you can use the knobs and buttons of the VE-7000 to edit the following parameters.

PREAMP AREA

GAIN	Preamp gain
ø PHASE	Preamp phase reversal

DELAY/DYN AREA

DIRECT/THRESHOLD	Direct sound level for DELAY
	Threshold level for DYN
DELAY LEVEL/RATIO	Delay sound level for DELAY
	Ratio for DYN
FEEDBACK/ATTACK	Feedback level for DELAY
	Attack time for DYN
DELAY TIME/RELEASE	Delay time for DELAY
	Release time for DYN
ON/OFF	ON/OFF for delay or dynamics

FLEX BUS AREA

1--12	Send levels to the corresponding flex buses
ON/OFF	ON/OFF setting for sends to each flex bus

EQ AREA

HI

GAIN	HI gain
FREQ	HI frequency

HI-MID

GAIN	HI-MID gain
FREQ	HI-MID frequency
Q	HI-MID Q

LO-MID

GAIN	LO-MID gain
FREQ	LO-MID frequency
Q	LO-MID Q

LO

GAIN	LO gain
FREQ	LO frequency

EQ ON/OFF	ON/OFF for entire EQ

MAIN/CUE AREA

PAN	MAIN pan
ON/OFF	MAIN send ON/OFF

MEMO

At the same time, you can use V1--V6, [F1]--[F6] and cursor [UP][DOWN] on the VM Console to operate the unit conventionally.

CH VIEW area functions

In the CH VIEW area you can access the CH VIEW page and switch between CH VIEW screens.
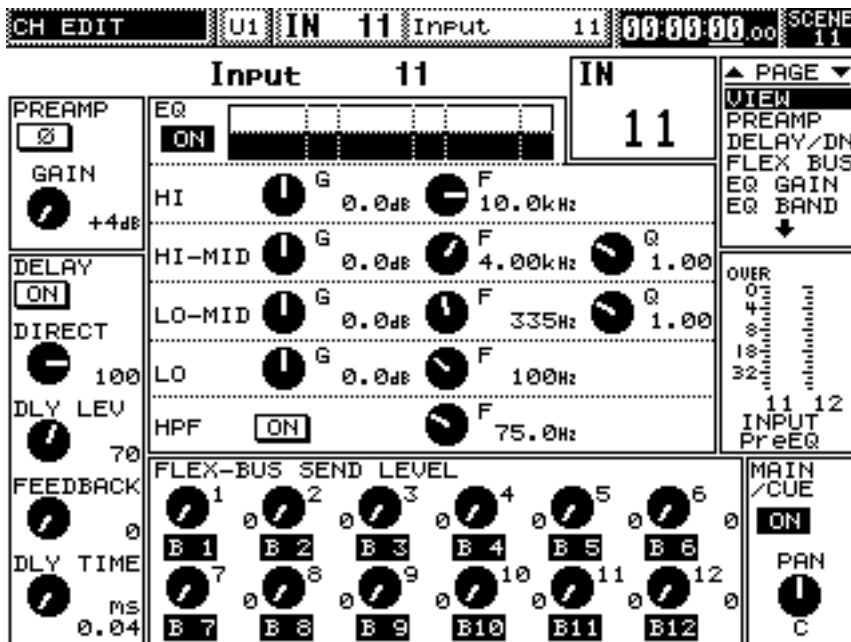
Accessing the CH VIEW page

When you press [CH EDIT] on the VM Console to access channel editing, there may be times when a page other than CH VIEW is displayed.
In such cases, you can press the CH VIEW area [EDIT] to immediately access the [CH VIEW] page.

Switching the CH VIEW screen

VM Console version 1.520 provides a special CH VIEW screen for the VE-7000 in addition to the existing CH VIEW page.
When the CH VIEW page is displayed, you can press the CH VIEW area [EDIT] to switch the existing CH VIEW screen to the special VE-7000 screen. Press it once again to return to the previous CH VIEW screen.

NOTE
In this screen, conventional operation using the V1--V6, [F1]--[F6] and cursor [UP][DOWN] of the VM Console is not possible.

In this screen, the various knobs and buttons are in one-to-one correspondence with the operating panel of the VE-7000, making operation easy to understand.

Convenient functions to remember

By holding down the [SHIFT] button of the VE-7000 and pressing the following buttons, you can use the following convenient functions.

FLEX BUS AREA

- [SHIFT]+[EDIT] (Set ALL to 0dB)
  Set the send levels to each FLEX BUS 1--12 to 100 (unity level).

- [SHIFT]+[ON/OFF]
  Set the send level to FLEX BUS to 100 (unity level).

EQ AREA

- [SHIFT]+[EDIT] (RESET)
  Return the EQ gain to a flat state.

MAIN/CUE AREA

- [SHIFT]+[ON/OFF](CH LINK)
  The selected channels will be channel-linked.
  If they are already channel-linked, channel link will be defeated.

- [SHIFT]+[EDIT] (Set CENTER)
  The pan value will be set to the center.

ALL AREAS

- [SHIFT]+knobs
  Skip values to change the setting rapidly.

Operations in the channel edit pages (connected to the VM Console)

By pressing [EDIT] in the various areas, you can access the pages corresponding to each area.

Press PRE AMP area [EDIT].   --> PREAMP page
Press DELAY/DYN area [EDIT].   --> DELAY/DN page
Press FLEX BUS area [EDIT].   --> FLEX BUS page
Press EQ area [EDIT].   --> EQ BAND page
Press MAIN/CUE area [EDIT].   --> MAIN/CUE page
Press SURROUND area [EDIT].   --> SURROUND page

MEMO

In each page, you can use the knobs and buttons of the VE-7000 to edit in conjunction with the V1--V6, [F1]--[F6] and cursor [UP][DOWN] of the VM Console itself.

MEMO

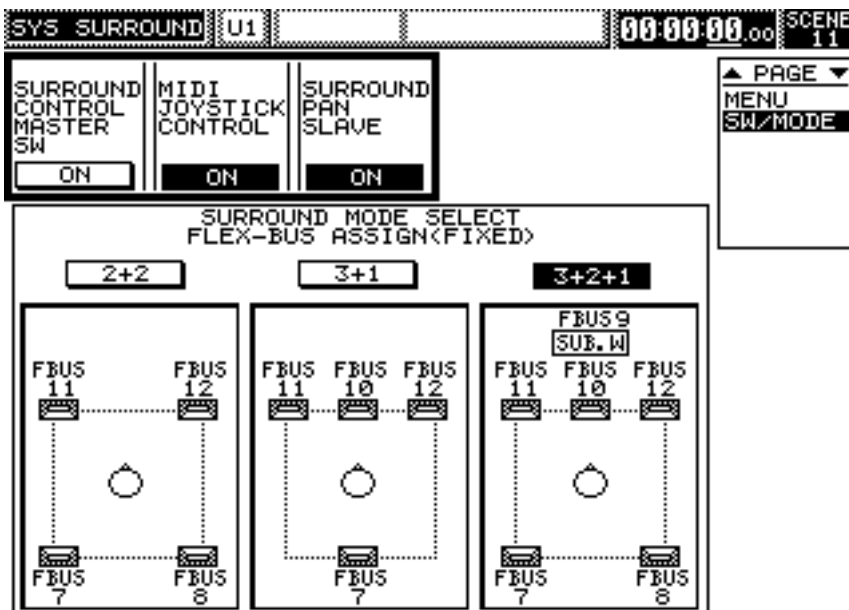If you operate the controllers of another area, the [CH VIEW] page will appear.

Using the joystick to control surround (connected to the VM Console)

You can use the joystick (located in the SURROUND area) to perform surround panning.

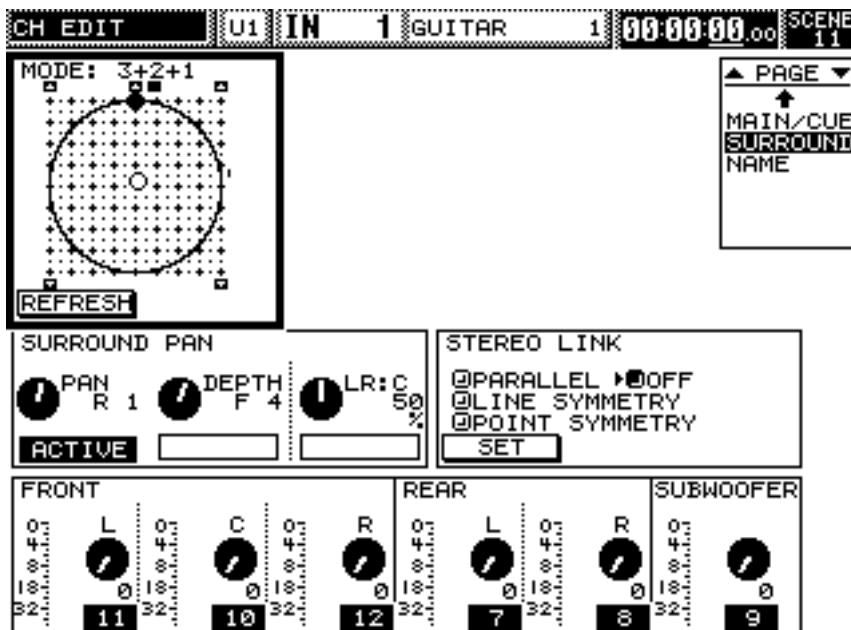## Preparations for surround panning

Perform the following steps on the VM Console to enable the Surround function.

1 Hold down [SHIFT] and press [SYSTEM (PROJECT)] to access the system menu.

2 Press cursor [UP] and then [F2] to select "SURROUND."

3 Use cursor [UP] to select the top parameter, and press [F1(ON)] to turn "SURROUND CONTROL MASTER SW" ON (highlighted in black).

4 Press [F2 (ON)] to turn "MIDI JOYSTICK CONTROL" ON (highlighted in black).

Using the joystick to control surround panning

1 Press SECTION [INPUT] (or [MULTI IN] or [FLEX BUS MASTER]) to select it.

2 Press [CH EDIT] for the channel you wish to edit. You will be in channel edit mode.

3 Press SURROUND [EDIT]. The SURROUND page will appear.

4 Now you can operate the joystick of the VE-7000.

Troubleshooting

If the VE-7000 does not operate as you expect, please check the following points first.

- None of the controls work
  - ● The power is not turned on
  - ● The various devices are not connected correctly
  - ● The VM Console system version is older than 1.520
  - ● The channel edit screen is not selected on the VM Console

- Joystick does not function
  - ● In the SYSTEM menu SURROUND settings,
    "SURROUND CONTROL MASTER SW" is not turned on
  - ● In the SYSTEM menu SURROUND settings,
    "MIDI JOYSTICK CONTROL" is not turned on

MIDI Implementation

1. THRU'ed data

All data received at MIDI IN will be transmitted from MIDI OUT. This is called "Thru." The data that is "thru'ed" will be mixed with the output data of the VE-7000 itself, and sent from MIDI OUT. For this reason, status bytes that were abbreviated by running status from the data received via MIDI will be added as necessary.

2. Control data transmission

When you operate the panel buttons, dials, or joystick, the following exclusive messages will be transmitted.

Status	Data bytes	Status
F0H	41H,7FH,00H,36H,12H,adh,adm,adl,dat,sum	F7H

Byte	Description
F0H	Status of System Exclusive Message
41H	Manufacturer ID (Roland)
7FH	Device ID
00H 36H	Model ID (VE-7000)
12H	Command ID (DT1)
adh	Address MSB
adm	Address MID
adl	Address LSB
dat	Data
sum	Checksum
F7H	EOX (End of Exclusive)

DEVICE ID

The device ID is used to distinguish between devices, in a way similar to MIDI channels. On the VE-7000, this is fixed at 7FH. This is the "broadcast" device ID, and its messages will apply to all connected devices.

MODEL ID

The model ID of the VE-7000 is 00H 36H.

3. Control data transmission address map

The exclusive messages transmitted when you operate the panel buttons,
dials, or joystick use the following addresses and data to indicate the
parameter that is to be controlled.

Address

Upper byte	Middle byte	Lower byte	Controller type	Controller
00H	00H	00H	BUTTON	PREAMP PHASE
00H	00H	01H	BUTTON	PREAMP EDIT
00H	00H	02H	BUTTON	DELAY/DYN ON/OFF
00H	00H	03H	BUTTON	DELAY/DYN EDIT
00H	00H	04H	BUTTON	FLEX BUS 1 ON/OFF
00H	00H	05H	BUTTON	FLEX BUS 2 ON/OFF
00H	00H	06H	BUTTON	FLEX BUS 3 ON/OFF
00H	00H	07H	BUTTON	FLEX BUS 4 ON/OFF
00H	00H	08H	BUTTON	FLEX BUS 5 ON/OFF
00H	00H	09H	BUTTON	FLEX BUS 6 ON/OFF
00H	00H	0AH	BUTTON	FLEX BUS 7 ON/OFF
00H	00H	0BH	BUTTON	FLEX BUS 8 ON/OFF
00H	00H	0CH	BUTTON	FLEX BUS 9 ON/OFF
00H	00H	0DH	BUTTON	FLEX BUS 10 ON/OFF
00H	00H	0EH	BUTTON	FLEX BUS 11 ON/OFF
00H	00H	0FH	BUTTON	FLEX BUS 21 ON/OFF
00H	00H	10H	BUTTON	FLEX BUS EDIT
00H	00H	11H	BUTTON	EQ HPF ON/OFF
00H	00H	12H	BUTTON	EQ ON/OFF
00H	00H	13H	BUTTON	EQ EDIT
00H	00H	14H	BUTTON	SURROUND EDIT
00H	00H	15H	BUTTON	CH VIEW EDIT
00H	00H	16H	BUTTON	SHIFT
00H	00H	17H	BUTTON	MAIN/CUE ON/OFF
00H	00H	18H	BUTTON	MAIN/CUE EDIT
00H	01H	00H	KNOB	PREAMP GAIN
00H	01H	01H	KNOB	DELAY/DYN DIRECT/THRESHOLD
00H	01H	02H	KNOB	DELAY/DYN DELAY LEVEL/RATIO
00H	01H	03H	KNOB	DELAY/DYN FEEDBACK/ATTACK
00H	01H	04H	KNOB	DELAY/DYN DELAY TIME/RELEASE
00H	01H	05H	KNOB	FLEX BUS 1 SEND LEVEL
00H	01H	06H	KNOB	FLEX BUS 2 SEND LEVEL
00H	01H	07H	KNOB	FLEX BUS 3 SEND LEVEL
00H	01H	08H	KNOB	FLEX BUS 4 SEND LEVEL
00H	01H	09H	KNOB	FLEX BUS 5 SEND LEVEL
00H	01H	0AH	KNOB	FLEX BUS 6 SEND LEVEL
00H	01H	0BH	KNOB	FLEX BUS 7 SEND LEVEL
00H	01H	0CH	KNOB	FLEX BUS 8 SEND LEVEL
00H	01H	0DH	KNOB	FLEX BUS 9 SEND LEVEL
00H	01H	0EH	KNOB	FLEX BUS 10 SEND LEVEL
00H	01H	0FH	KNOB	FLEX BUS 11 SEND LEVEL
00H	01H	10H	KNOB	FLEX BUS 12 SEND LEVEL
00H	01H	11H	KNOB	EQ HI Gain
00H	01H	12H	KNOB	EQ HI Freq.
00H	01H	13H	KNOB	EQ HI-MID Gain
00H	01H	14H	KNOB	EQ HI-MID Freq.
00H	01H	15H	KNOB	EQ HI-MID Q
00H	01H	16H	KNOB	EQ LO-MID Gain
00H	01H	17H	KNOB	EQ LO-MID Freq.
00H	01H	18H	KNOB	EQ LO-MID Q
00H	01H	19H	KNOB	EQ LO Gain
00H	01H	1AH	KNOB	EQ LO Freq.
00H	01H	1BH	KNOB	EQ HPF Freq.
00H	01H	1CH	KNOB	MAIN/CUE PAN
00H	02H	00H	JOYSTICK	SURROUND VERTICAL
00H	02H	01H	JOYSTICK	SURROUND HORIZONTAL

4. Control data transmission data

The following data is transmitted by each type of controller.

01H   Transmitted when pressed
02H   Transmitted when released
03H   Transmitted 0.3 seconds after pressed.
          Successively transmitted every 0.1 seconds until released.

Dial controllers

Dial rotation expressed as a 7-bit binary complement. Positive values (1--63) indicate clockwise rotation, and negative values (-1 to -64) indicate counterclockwise rotation. The units are the number of clicks. One complete turn is 24 clicks. An interval of at least 0.1 second is maintained between transmitting changes in the dial position.

Joystick controller

Horizontal position is expressed as data of 0 for the left edge and 127 as the right edge.
Vertical position is expressed as data of 0 as bottom (toward yourself) and 127 as top (away from yourself).
An interval of at least 0.1 second is maintained between each transmission of changes.

MIDI Implementation Chart

CH EDIT Controller

Model VE-7000

Date : Jul. 28 2000

Version : 1.0.0

27

MIDI Implementation Chart

Function...		Transmitted	Recognized	Remarks
Basic Channel	Default	x	x	Not defined
	Changed	x	**************	
Mode	Default	x	x	Not defined
	Messages	x	x	
	Altered	**************	x	
Note Number:	True Voice	*1 **************	*1 x	THRU'ed
Velocity	Note On	*1	*1	THRU'ed
	Note Off	*1	*1	
After Touch	Key's	*1	*1	THRU'ed
	Channel's	*1	*1	
Pitch Bender		*1	*1	THRU'ed
Control Change		*1	*1	THRU'ed
Program Change:	True Number	*1 **************	*1	THRU'ed
System Exclusive		o *2	*2	
Common	:Quarter Frame	*1	*1	THRU'ed
	:Song Position	*1	*1	
	:Song Select	*1	*1	
	:Tune	*1	*1	
Real Time	:Clock	*1	*1	THRU'ed
	:Command	*1	*1	
Others:		*1	*1	THRU'ed
Notes:		*1 All received data is transmitted. Status bytes are added when necessary. *2 Panel operations will be transmitted. Received exclusive data will be transmitted without change.		

Mode 1 : OMNI ON, POLY   Mode 2 : OMNI ON, MONO   o : Yes
Mode 3 : OMNI OFF, POLY   Mode 4 : OMNI OFF, MONO   x : No

Model VE-7000

Specifications

VE-7000:
CH EDIT CONTROLLER

- Connectors
  MIDI Connectors (IN, OUT)
  AC Adaptor Jack (DC IN)

- Dimensions
  253.5 (W) x 169.5 (D) x 67.0 (H) mm

- Weight
  1.2 kg
  2 lbs 10 oz

- Power Supply
  DC 9 V (AC Adaptor PSB-1U)

- Current Draw
  150 mA

- Accessories
  AC Adaptor (PSB-1U)
  MIDI Cable (1 m)
  VM-C7200/C7100 update memory card
  Owner's Manual

In the interest of product improvement, the specifications and/or appearance of this unit are subject to change without prior notice.

MEMO

MEMO

Information

When you need repair service, call your nearest Roland Service Center or authorized Roland distributor in your country as shown below.

AFRICA

EGYPT
Al Fanny Trading Office
P.O. Box 2904,
El Horrieh Heliopolos, Cairo,
EGYPT
TEL: (02) 4185531

REUNION
Maison FO - YAM Marcel
25 Rue Jules Hermann,
Chaudron - BP79 97 491
Ste Clotilde Cedex,
REUNION ISLAND
TEL: 28 29 16

SOUTH AFRICA
That Other Music Shop (PTY) Ltd.
11 Melle St., Braamfontein,
Johannesbourg
Republic of SOUTH AFRICA

P.O.Box 32918, Braamfontein 2017
Republic of SOUTH AFRICA
TEL: (011) 403 4105

Paul Bothner (PTY) Ltd.
17 Werdmuller Centre Claremont
7700
Republic of SOUTH AFRICA

P.O. Box 23032
Claremont, Cape Town
SOUTH AFRICA, 7735
TEL: (021) 674 4030

ASIA

CHINA
Beijing Xinghai Musical Instruments Co., Ltd.
6 Huangmuchang Chao Yang
District, Beijing, CHINA
TEL: (010) 6774 7491

HONG KONG
Tom Lee Music Co., Ltd. Service Division
22-32 Pun Shan Street, Tsuen
Wan, New Territories,
HONG KONG
TEL: 2415 0911

INDIA
Rivera Digitec (India) Pvt. Ltd.
409, Nirman Kendra Mahalaxmi
Flats Compound Off. Dr. Edwin
Moses Road, Mumbai-400011,
INDIA
TEL: (022) 498 3079

INDONESIA
PT Citra IntiRama
J1. Cideng Timur No. 15J-150
Jakarta Pusat
INDONESIA
TEL: (021) 6324170

KOREA
Cosmos Corporation
1461-9, Seocho-Dong,
Seocho Ku, Seoul, KOREA
TEL: (02) 3486-8855

MALAYSIA
Bentley Music SDN BHD
140 & 142, Jalan Bukit Bintang
55100 Kuala Lumpur,MALAYSIA
TEL: (03) 2443333

PHILIPPINES
G.A. Yupangco & Co. Inc.
339 Gil J. Puyat Avenue
Makati, Metro Manila 1200,
PHILIPPINES
TEL: (02) 899 9801

SINGAPORE
Swee Lee Company
150 Sims Drive,
SINGAPORE 387381
TEL: 748-1669

CRISTOFORI MUSIC PTE LTD
Blk 3014, Bedok Industrial Park E,
#02-2148, SINGAPORE 489980
TEL: 243 9555

TAIWAN
ROLAND TAIWAN ENTERPRISE CO., LTD.
Room 5, 9fl. No. 112 Chung Shan
N.Road Sec.2, Taipei, TAIWAN,
R.O.C.
TEL: (02) 2561 3339

THAILAND
Theera Music Co. , Ltd.
330 Verng NakornKasem, Soi 2,
Bangkok 10100, THAILAND
TEL: (02) 2248821

VIETNAM
Saigon Music
138 Tran Quang Khai St.,
District 1
Ho Chi Minh City
VIETNAM
TEL: (08) 844-4068

AUSTRALIA/ NEW ZEALAND

AUSTRALIA
Roland Corporation Australia Pty., Ltd.
38 Campbell Avenue
Dee Why West. NSW 2099
AUSTRALIA
TEL: (02) 9982 8266

NEW ZEALAND
Roland Corporation (NZ) Ltd.
97 Mt. Eden Road, Mt. Eden,
Auckland 3, NEW ZEALAND
TEL: (09) 3098 715

CENTRAL/LATIN AMERICA

ARGENTINA
Instrumentos Musicales S.A.
Florida 656 2nd Floor
Office Number 206A
Buenos Aires
ARGENTINA, CP1005
TEL: (54-11) 4- 393-6057

BRAZIL
Roland Brasil Ltda
Rua San Jose, 780 Sala B
Parque Industrial San Jose
Cotia - Sao Paulo - SP, BRAZIL
TEL: (011) 4615 5666

COSTA RICA
JUAN Bansbach Instrumentos Musicales
Ave.1. Calle 11, Apartado 10237,
San Jose, COSTA RICA
TEL: (506)258-0211

CHILE
Comercial Fancy II S.A.
Avenida Rancagua #0330
Providencia Santiago, CHILE
TEL: 56-2-373-9100

EL SALVADOR
OMNI MUSIC
75 Avenida Notre YY Alameda,
Juan Pablo 2, No. 4010
San Salvador, EL SALVADOR
TEL: (503) 262-0788

MEXICO
Casa Veerkamp, s.a. de c.v.
Av. Toluca No. 323, Col. Olivar
de los Padres 01780 Mexico D.F.
MEXICO
TEL: (525) 668 04 80

La Casa Wagner de Guadalajara s.a. de c.v.
Av. Corona No. 202 S.J.
Guadalajara, Jalisco Mexico
C.P.44100 MEXICO
TEL: (3) 613 1414

PANAMA
SUPRO MUNDIAL, S.A.
Boulevard Andrews, Albrook,
Panama City,
REP. DE PANAMA
TEL: (507) 315-0101

PARAGUAY
Distribuidora De Instrumentos Musicales
J.E. Olear y ESQ. Manduvira
Edeficio, El Dorado Planta Baja
Asuncion PARAGUAY
TEL: 595-21-492147

PERU
VIDEO Broadcast S.A.
Portinari 199 (ESQ. HALS),
San Borja, Lima 41,
REP. OF PERU
TEL: 51-14-758226

URUGUAY
Todo Musica S.A.
Cuareim 1844, Montevideo,
URUGUAY, CP11200
TEL: 5982-924-2335

VENEZUELA
Musicland Digital C.A.
Av. Francisco de Miranda,
Centro Parque de Cristal, Nivel
C2 Local 20 Caracas
VENEZUELA
TEL: (02) 285 9218

EUROPE

AUSTRIA
Roland Austria GES.M.B.H.
Siemensstrasse 4, P.O. Box 74,
A-6063 RUM, AUSTRIA
TEL: (0512) 26 44 260

BELGIUM/HOLLAND/ LUXEMBOURG
Roland Benelux N. V.
Houtstraat 3, B-2260, Oevel
(Westerlo) BELGIUM
TEL: (014) 575811

DENMARK
Roland Scandinavia A/S
Nordhavnsvej 7, Postbox 880,
DK-2100 Copenhagen
DENMARK
TEL: (039)16 6200

FRANCE
Roland France SA
4, Rue Paul Henri SPAAK,
Parc de l'Esplanade, F 77 462 St.
Thibault, Lagny Cedex FRANCE
TEL: 01 600 73 500

FINLAND
Roland Scandinavia As, Filial Finland
Lauttasaarentie 54 B
Fin-00201 Helsinki, FINLAND
TEL: (9) 682 4020

GERMANY
Roland Elektronische Musikinstrumente HmbH.
Oststrasse 96, 22844 Norderstedt,
GERMANY
TEL: (040) 52 60090

GREECE
STOLLAS S.A.
Music Sound Light
155, New National Road
26422 Patras, GREECE
TEL: 061-435400

HUNGARY
Intermusica Ltd.
Warehouse Area 'DEPO' Pf.83
H-2046 Torokbalint, HUNGARY
TEL: (23) 511011

IRELAND
Roland Ireland
Audio House, Belmont Court,
Donnybrook, Dublin 4.
Republic of IRELAND
TEL: (01) 2603501

ITALY
Roland Italy S. p. A.
Viale delle Industrie 8,
20020 Arese, Milano, ITALY
TEL: (02) 937-78300

NORWAY
Roland Scandinavia Avd. Kontor Norge
Lilleakerveien 2 Postboks 95
Lilleaker N-0216 Oslo
NORWAY
TEL: 273 0074

POLAND
P. P. H. Brzostowicz
UL. Gibraltarska 4.
PL-03664 Warszawa POLAND
TEL: (022) 679 44 19

PORTUGAL
Tecnologias Musica e Audio, Roland Portugal, S.A.
Cais Das Pedras, 8/9-1 Dto
4050-465 PORTO
PORTUGAL
TEL: (022) 608 00 60

ROMANIA
FBS LINES
Piata Libertatii 1,
RO-4200 Gheorghehi
TEL: (066) 164-609

RUSSIA
Slami Music Company
Sadojava-Triumfalnaja st., 16
103006 Moscow, RUSSIA
TEL: 095 209 2193

SPAIN
Roland Electronics de España, S. A.
Calle Bolivia 239, 08020
Barcelona, SPAIN
TEL: (93) 308 1000

SWEDEN
Roland Scandinavia A/S SWEDISH SALES OFFICE
Danvik Center 28, 2 tr.
S-131 30 Nacka SWEDEN
TEL: (08) 702 0020

SWITZERLAND
Roland (Switzerland) AG Musitronic AG
Gerberstrasse 5, Postfach,
CH-4410 Liestal, SWITZERLAND
TEL: (061) 921 1615

UKRAINE
TIC-TAC
Mira Str. 19/108
P.O. Box 180
295400 Munkachevo, UKRAINE
TEL: (03131) 414-40

UNITED KINGDOM
Roland (U.K.) Ltd.
Atlantic Close, Swansea
Enterprise Park, SWANSEA
SA7 9FJ,
UNITED KINGDOM
TEL: (01792) 700139

MIDDLE EAST

BAHRAIN
Moon Stores
Bab Al Bahrain Road,
P.O. Box 20077
State of BAHRAIN
TEL: 211 005

CYPRUS
Radex Sound Equipment Ltd.
17 Diagorou St., P.O. Box 2046,
Nicosia CYPRUS
TEL: (02) 453 426

IRAN
MOCO, INC.
No.41 Nike St.Dr.Shariyati Ave.
Roberoye Cerahe Mirdamad
Tehran, IRAN
TEL: 285 4169

ISRAEL
Halilit P. Greenspoon & Sons Ltd.
8 Retzif Ha'aliya Hashnya St.
Tel-Aviv-Yafo ISRAEL
TEL: (03) 6823666

JORDAN
AMMAN Trading Agency
Prince Mohammed St. P.O. Box
825 Amman 11118 JORDAN
TEL: (06) 4641200

KUWAIT
Easa Husain Al-Yousifi
Abdullah Salem Street,
Safat KUWAIT
TEL: 5719499

LEBANON
A. Chahine & Fils
P.O. Box 16-5857 Gergi Zeidan St.
Chahine Building, Achrafieh
Beirut, LEBANON
TEL: (01) 335799

QATAR
Al Emadi Co. (Badie Studio & Stores)
P.O. Box 62,
DOHA QATAR
TEL: 4423-554

SAUDI ARABIA
aDawliah Universal Electronics APL
Corniche Road, Aldossary Bldg.,
1st Floor
SAUDI ARABIA

P.O.Box 2154, Alkhobar 31952
SAUDI ARABIA
TEL: (03) 898 2081

SYRIA
Technical Light & Sound Center
Khaled Ibn Al Walid St.
P.O. Box 13520
Damascus - SYRIA
TEL: (011) 2235 384

TURKEY
Barkat muzik aletleri ithalat ve ihracat Ltd Sti
Siraselviler cad.Guney is hani 84-
86/6, Taksim. Istanbul. TURKEY
TEL: (0212) 2499324

U.A.E.
Zak Electronics & Musical Instruments Co. L.L.C.
Zabeel Road, Al Sherooq Bldg.,
No. 14, Grand Floor DUBAI
U.A.E.
TEL: (04) 3360715

NORTH AMERICA

CANADA
Roland Canada Music Ltd. (Head Office)
5480 Parkwood Way Richmond
B. C., V6V 2M4 CANADA
TEL: (0604) 270 6626

Roland Canada Music Ltd. (Toronto Office)
Unit 2, 109 Woodbine Downs
Blvd, Etobicoke, ON
M9W 6Y1 CANADA
TEL: (0416) 213 9707

U. S. A.
Roland Corporation U.S.
5100 S. Eastern Avenue
Los Angeles, CA 90040-2938,
U. S. A.
TEL: (323) 890 3700

As of February 5, 2001 (Roland)

MEMO

Roland Corporation