Roland®

CH EDIT CONTROLLER
VE-7000

Owner's Manual

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 **, 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.
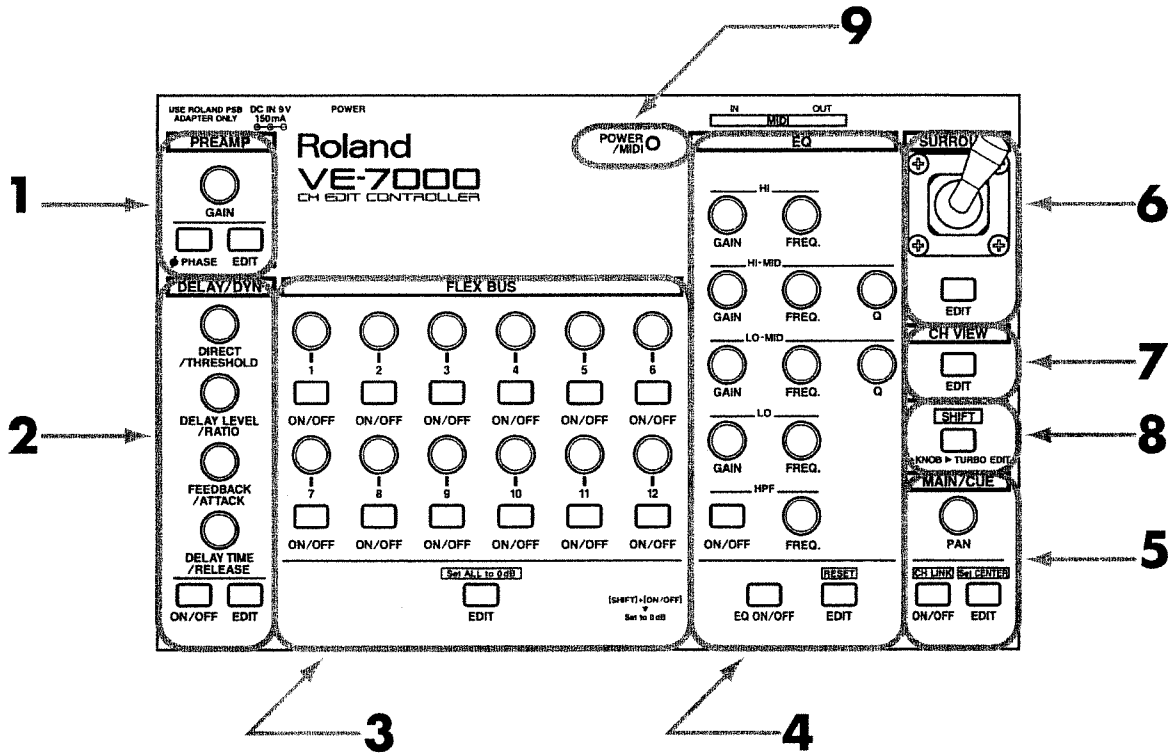
1

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
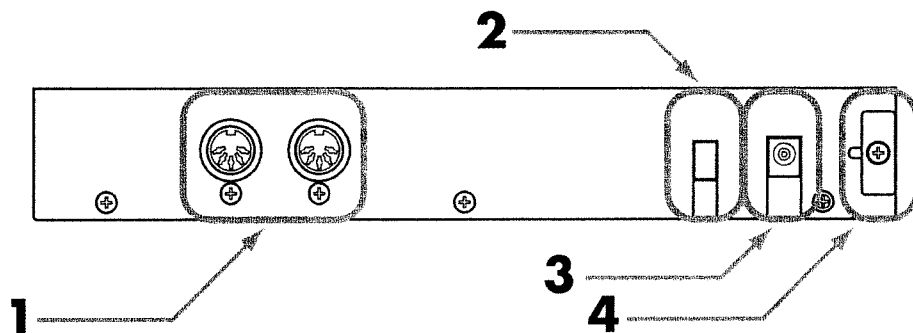
1

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.
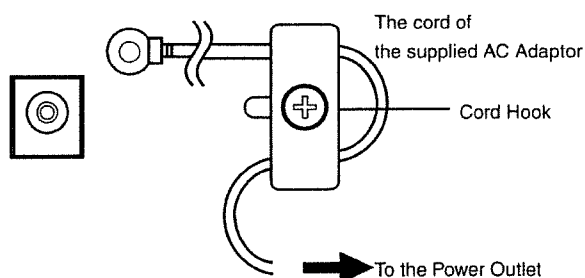
The cord of the supplied AC Adaptor

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.

HD Recorder

VE-7000

VM-C7200
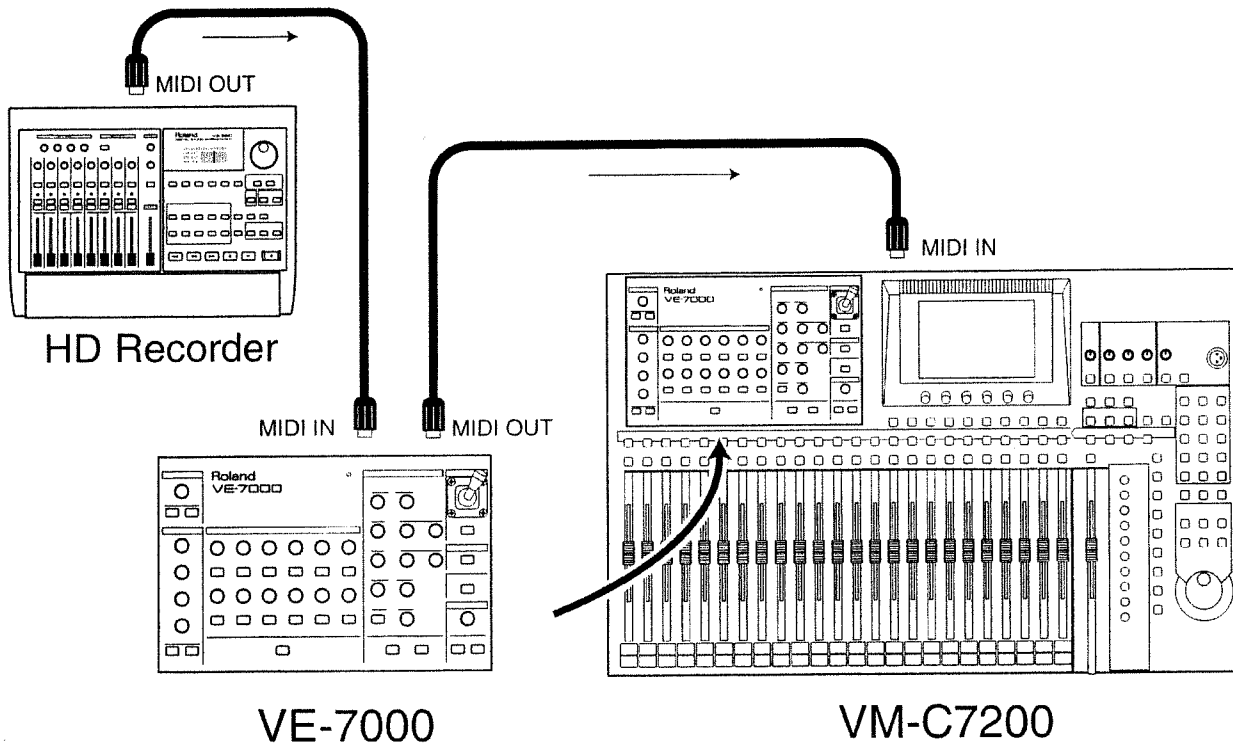
Use a MIDI cable to connect the VE-7000's MIDI OUT to the MIDI IN of the device (e.g., VM Console) that you wish to control from the VE-7000.
If you wish to use the VE-7000 to control another device, such as an additional VM Console, connect the device to the MIDI IN of the VE-7000. MIDI messages that 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.
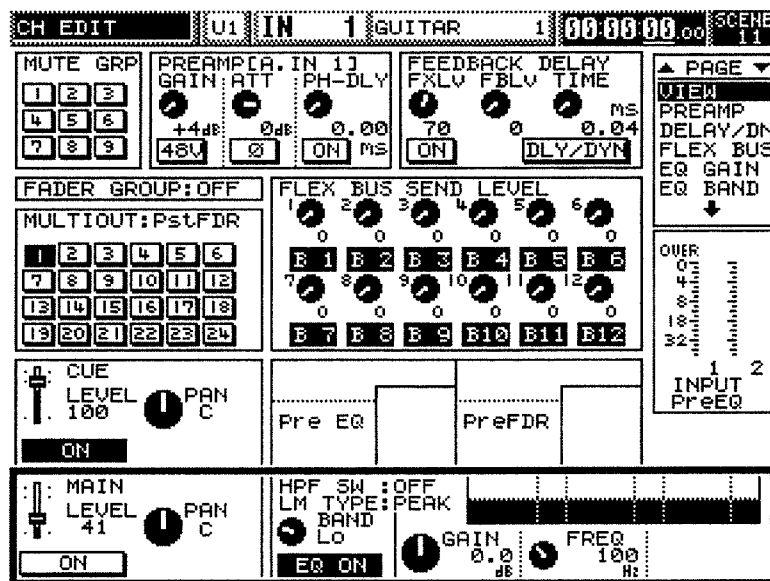
What is the channel edit screen?

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

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.

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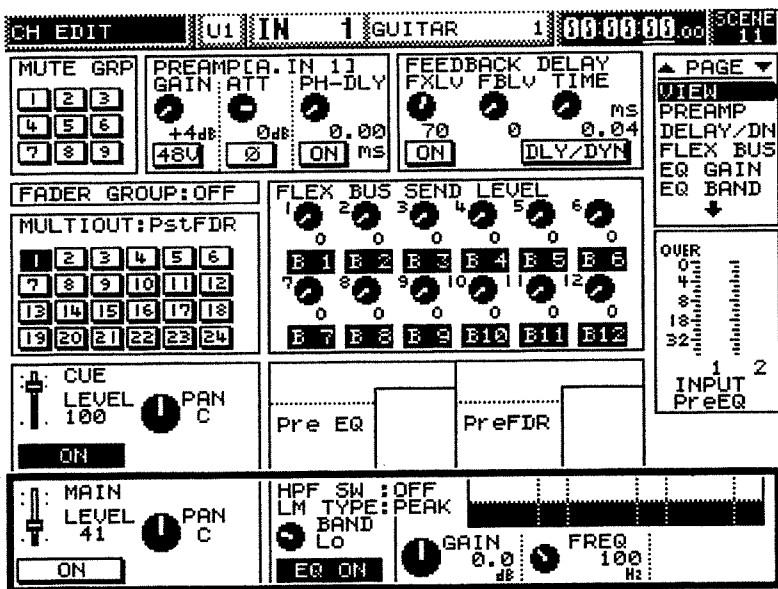
In this state, you can use the knobs and buttons of the VE-7000 to edit the
following parameters.

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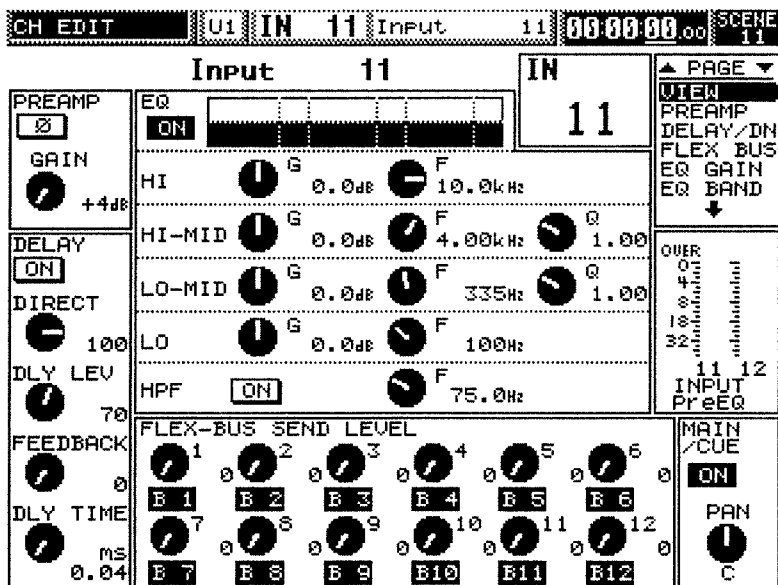
NOTE
In this screen, conventional operation using the V1--V6, [F1]--[F6] and cursor [UP][DOWN] of the VM Console is not possible.

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).
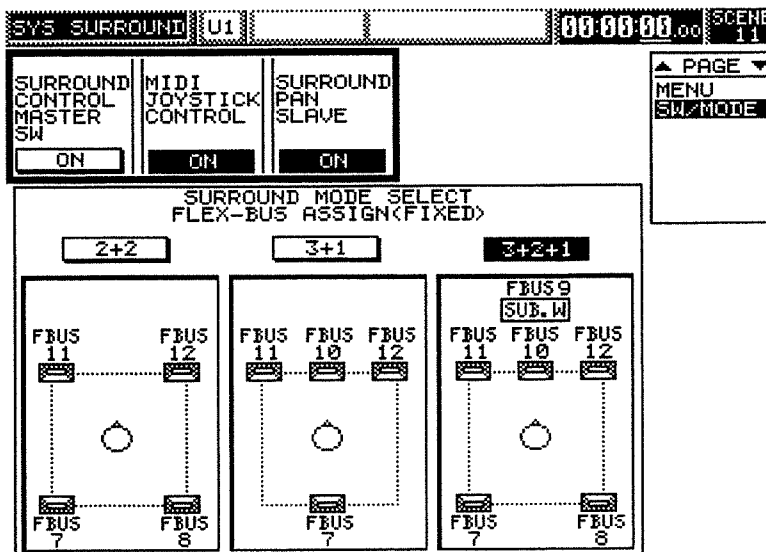
Using the joystick to control surround panning

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.
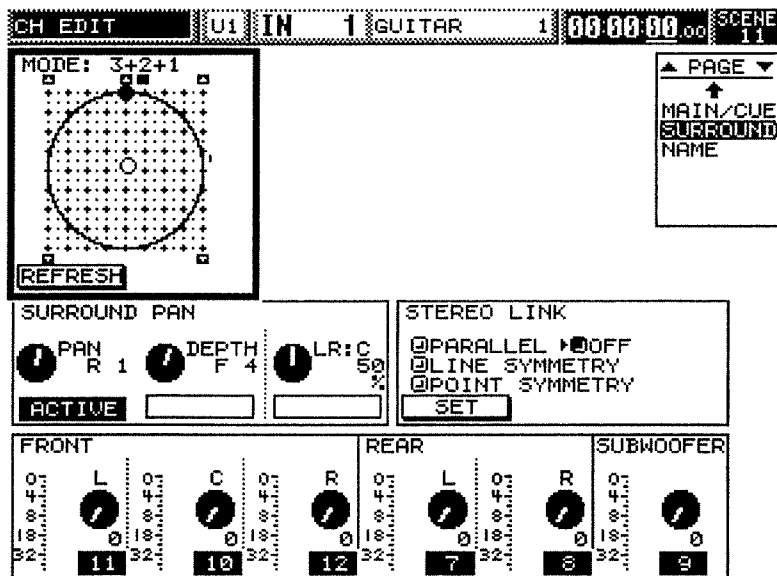
Troubleshooting

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 HORIZONTAL
00H	02H	01H	JOYSTICK	SURROUND VERTICAL

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

MIDI Implementation Chart

Function...		Transmitted	Recognized	Remarks
Basic Channel	Default Changed	x x	x **************	Not defined
Mode	Default Messages Altered	x x **************	x x x	Not defined
Note Number:	True Voice	*1 **************	*1 x	THRU'ed
Velocity	Note On Note Off	*1 *1	*1 *1	THRU'ed
After Touch	Key's Channel's	*1 *1	*1 *1	THRU'ed
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 :Song Position :Song Select :Tune	*1 *1 *1 *1	*1 *1 *1 *1	THRU'ed
Real Time	:Clock :Command	*1 *1	*1 *1	THRU'ed
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

Specifications

VE-7000
CH EDIT CONTROLLER

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

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

- Weight
  1.2kg
  2lbs 10oz

- Power Supply
  DC 9V / 150mA (AC Adapter PSB-1U)

- Power Consumption
  1W

- Accessories
  AC Adapter (PSB-1U)
  MIDI Cable (1m)
  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

Information

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

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Chaudron - BP79 97491
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17 Werdmuller Centre Claremont 7700
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