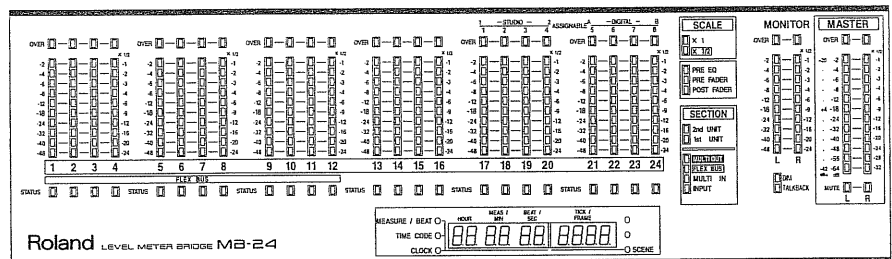


MB-24

OWNER'S MANUAL

Before using this unit, carefully read the sections entitled: "IMPORTANT SAFETY INSTRUCTIONS" (p. 2), "USING THE UNIT SAFELY" (p. 3), and "IMPORTANT NOTES" (p. 6). 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.





Main Features

- When connected with compatible devices, such as the Roland VM-C7100 or VM-C7200, the MB-24 provides input/output level metering, and the display of function data, allowing easy viewing even from a distance.
 - By attaching the included rack-mount adapters, the MB-24 can be installed into your system rack.
 - Eight-segment LED indicators are used to display time code, measures, time, and scene numbers.
- * All product names mentioned in this document are trademarks or registered trademarks of their respective owners.

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Roland international website: www.rolandcorp.com/
 Roland US website: www.rolandus.com/

	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	
ATTENTION: RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR		
<p>CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL</p>		



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS.

IMPORTANT SAFETY INSTRUCTIONS SAVE THESE INSTRUCTIONS

WARNING - When using electric products, basic precautions should always be followed, including the following:

1. Read all the instructions before using the product.
2. Do not use this product near water — for example, near a bathtub, washbowl, kitchen sink, in a wet basement, or near a swimming pool, or the like.
3. This product should be used only with a cart or stand that is recommended by the manufacturer.
4. This product, either alone or in combination with an amplifier and headphones or speakers, may be capable of producing sound levels that could cause permanent hearing loss. Do not operate for a long period of time at a high volume level or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should consult an audiologist.
5. The product should be located so that its location or position does not interfere with its proper ventilation.
6. The product should be located away from heat sources such as radiators, heat registers, or other products that produce heat.
7. The product should be connected to a power supply only of the type described in the operating instructions or as marked on the product.
8. The power-supply cord of the product should be unplugged from the outlet when left unused for a long period of time.
9. Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
10. The product should be serviced by qualified service personnel when:
 - A. The power-supply cord or the plug has been damaged; or
 - B. Objects have fallen, or liquid has been spilled into the product; or
 - C. The product has been exposed to rain; or
 - D. The product does not appear to operate normally or exhibits a marked change in performance; or
 - E. The product has been dropped, or the enclosure damaged.
11. Do not attempt to service the product beyond that described in the user-maintenance instructions. All other servicing should be referred to qualified service personnel.

For the USA

GROUNDING INSTRUCTIONS

This product must be grounded. If it should malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock.

This product is equipped with a cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.


DANGER: Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or serviceman if you are in doubt as to whether the product is properly grounded. Do not modify the plug provided with the product — if it will not fit the outlet, have a proper outlet installed by a qualified electrician.

For the U.K.

WARNING: THIS APPARATUS MUST BE EARTHED

IMPORTANT: THE WIRES IN THIS MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE.
GREEN-AND-YELLOW: EARTH, BLUE: NEUTRAL, BROWN: LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured GREEN-AND-YELLOW must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol  or coloured GREEN or GREEN-AND-YELLOW.

The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.




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 perform any internal modifications on the unit. 


- 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. 

- Avoid damaging the power cord. Do not bend it excessively, step on it, place heavy objects on it, etc. A damaged cord can easily become a shock or fire hazard. Never use a power cord after it has been damaged. 





- 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!) 

- 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/ampères) 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

- Always grasp only the plug on the power-supply cord when plugging into, or unplugging from, an outlet or this unit. 
- 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 power cord or its plugs with wet hands when plugging into, or unplugging from, an outlet or this unit. 

- Before moving the unit, disconnect the power plug from the outlet, and pull out all cords from external devices. 
- Before cleaning the unit, turn off the power and unplug the power cord from the outlet (p. 12). 
- Whenever you suspect the possibility of lightning in your area, pull the plug on the power cord out of the outlet. 

CE For EU Countries
This product complies with the requirements of European Directives EMC 89/336/EEC and LVD 73/23/EEC.

For the USA
**FEDERAL COMMUNICATIONS COMMISSION
RADIO FREQUENCY INTERFERENCE STATEMENT**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Unauthorized changes or modification to this system can void the users authority to operate this equipment.
This equipment requires shielded interface cables in order to meet FCC class B Limit.

For Canada
NOTICE
This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

AVIS
Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

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IMPORTANT NOTES

In addition to the items listed under “IMPORTANT SAFETY INSTRUCTIONS” and “USING THE UNIT SAFELY” on pages 2 and 3, 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).
- 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.
- Do not expose the unit to direct sunlight, place it near devices that radiate heat, leave it inside an enclosed vehicle, or otherwise subject it to temperature extremes. Excessive heat can deform or discolor the unit.
- 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

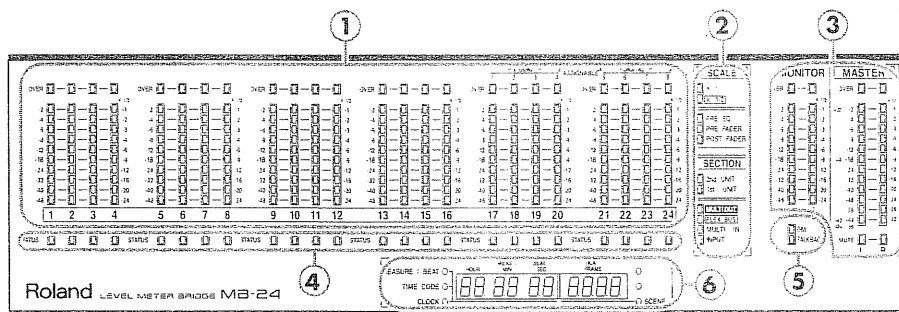
- Use a reasonable amount of care when using the unit’s buttons, sliders, or other controls; and when using its jacks and connectors. Rough handling can lead to malfunctions.
- Never strike or apply strong pressure to the display.
- When connecting / disconnecting all cables, grasp the connector itself—never pull on the cable. This way you will avoid causing shorts, or damage to the cable’s internal elements.
- A small amount of heat will radiate from the unit during normal operation.
- To avoid disturbing your neighbors, try to keep the unit’s volume at reasonable levels. You may prefer to use headphones, so you do not need to be concerned about those around you (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.

Caution on placement and transportation (Important!)

- Do not lift the MB-24 while it is placed on a mixer or similar device. Doing so can damage the MB-24 or mixer.

Front and Rear Panels

Front Panel



1 Level Meter Display (Channels 1–24)

This section indicates the INPUT/MULTI IN/FLEX BUS/MULTI OUT levels according to the settings of the mixing console. Level changes are displayed in real time.

- If the level exceeds the value specified by the mixing console's "Over Range" setting, the OVER indicator will light.
- You can have the indicator representing the maximum level remain lit (Peak Hold Time; p. 13).
- If you have selected FLEX BUS on the mixing console, the levels will be shown by the channel 1–12 level meters.
- If you have selected MULTI OUT on the mixing console, the level meters for channels 17–24 will show the output levels from the assignable outputs.

2 Function Display

This area indicates the SCALE/PRE EQ/PRE FADER/POST FADER/SECTION status of the mixing console. For an explanation of each item, refer to the owner's manual for your mixing console.

3 MONITOR/MASTER (Monitor Level/Master Level)

This area corresponds to the monitor and master level indicators of the mixing console.

4 STATUS Indicators

These indicators show the status of each channel as set on the mixing console.

5 DIM/TALKBACK

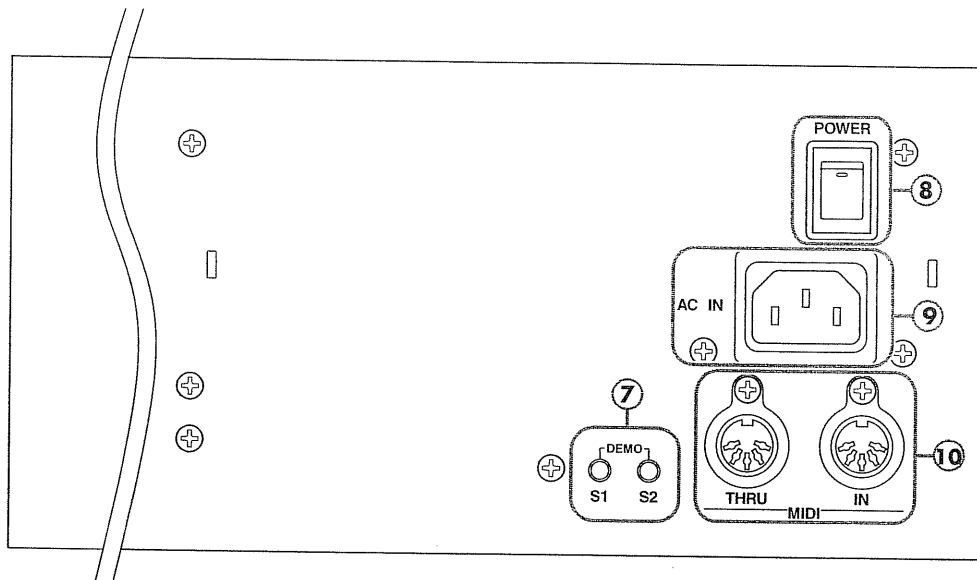
These indicators show the status of the DIM and TALKBACK settings on the mixing console.

Front and Rear Panels

6 Display

Shows the measure/beat/tick, time code, time, or scene number. The choice as to what to have displayed can be made from the mixing console.

Rear Panel



7 [S1]/[S2] button

These switches are used to set the peak hold time, to switch the MIDI receive channel, and to select the demo display.

8 POWER Switch

This turns the power of the MB-24 on/off.

9 AC IN jack

Connect the supplied power cord to this connector.

10 MIDI IN/THRU (MIDI Connectors)

Connect MIDI IN to an MB-24 compatible device such as the VM-C7100/VM-C7200.

MIDI messages received at MIDI IN will be re-transmitted without change from MIDI THRU. Use the MIDI THRU connector to transmit MIDI messages from the mixing console to other MIDI devices, such as a sound module or sequencer.

MEMO

When the power is turned on, channel 16 will be selected.

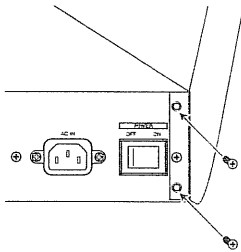
Making the Connections

Connecting the mixing console (VM-C7100/VM-C7200) to the MB-24

■ Connecting the VM-C7200 and the MB-24

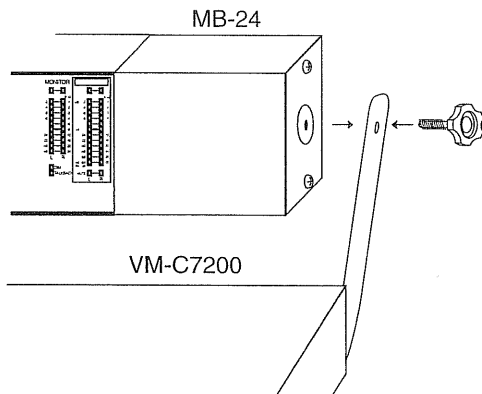
1

Attach the arms to the VM-C7200 using screws belong to the VM-C7200.



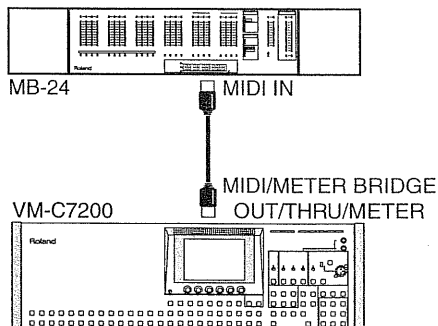
2

Attach the arms to both sides of the MB-24.



3

Connect the devices as shown in the diagram.

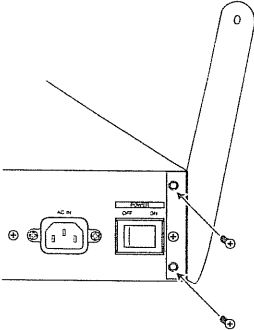


To prevent malfunction and/or damage to speakers or other devices, always turn down the volume, and turn off the power on all devices before making any connections.

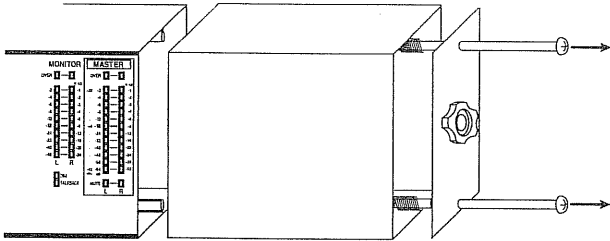
Making the Connections

■ Connecting the VM-C7100 and the MB-24

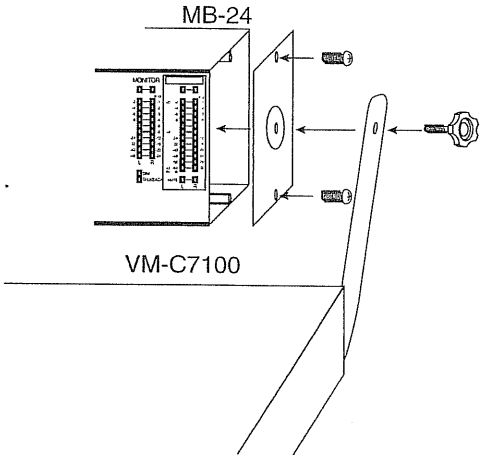
- 1 Attach the arms to the VM-C7100 using screws belong to the VM-C7100.



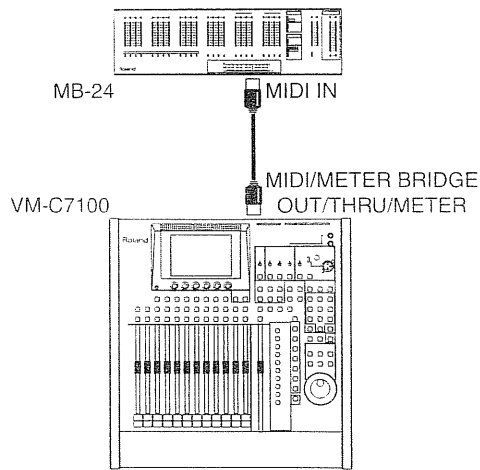
- 2 Remove the cases from both sides of the MB-24.



- 3 Attach the arms to both sides of the MB-24 as shown in the diagram.



- 4 Connect the devices as shown in the diagram.

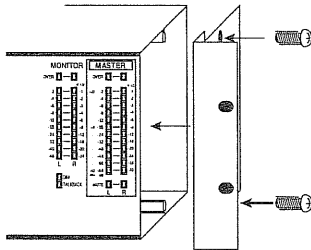


To prevent malfunction and/or damage to speakers or other devices, always turn down the volume, and turn off the power on all devices before making any connections.

Connecting the mixing processor (VM-7100/VM-7200) and the MB-24

1

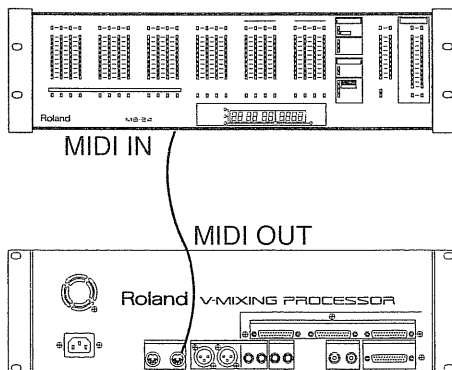
If you wish to install the MB-24 in your system rack, detach the case from the two sides of the MB-24, and attach the rack-mount hardware.



If you will not be installing the MB-24 in a system rack, this step is not necessary.

2

Connect the devices as shown in the diagram.



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.

Turning the Power On/Off

Turning the power on

Before turning on the power, make sure that all devices are connected correctly.

1

Turn on the power of the MB-24.

After all LED indicators light, only the "." in the display will light. The function area will show the settings that have been made by the mixing console.

2

Turn on the power of the mixing console and mixing processor.



Once the connections have been completed (p. 9), turn on power to your various devices in the order specified. By turning on devices in the wrong order, you risk causing malfunction and/or damage to speakers and other devices.



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.

Turning off the power

1

Turn off the power of the mixing console and mixing processor.

2

Turn off the power of the MB-24.

Operation

Setting [S1]/[S2]

■ Setting the peak hold time

Peak hold time is a function that makes it easier for you to check the maximum values (peaks) of the level. The indicator at the peak position will remain lit for the length of time that you specify. This is convenient when you are adjusting the levels.

- 1** Turn on the power.
- 2** Press [S1] once.
The level meters will indicate "PEAK," and the display will show the peak hold time (0 – 7, Cont).
- 3** Continue pressing [S2] until the desired peak hold time appears. This can be set in the range of 1 – 7 seconds. If you want the indicator to remain lit at the peak position, select "Cont." If you do not need to see the peak location, select "0."
- 4** Press [S1] once again to finalize the peak hold time.

MEMO

If the peak hold time has been set to "Cont," you can turn off the peak location indicator by selecting a setting other than "Cont," or by turning the power off and on again.

NOTE

When the power is turned off, the peak hold time setting will return to the default setting of "3." Make this setting if you want to temporarily change the peak hold time.

■ Changing the MIDI receive channel

- 1** Turn on the power.
- 2** Press [S1] twice. The level meter will indicate "MIDIch," and the display will show the MIDI channel number (1 – 16).
- 3** Continue pressing [S2] until the desired channel number appears.
- 4** Press [S1] once again to finalize the channel number.

NOTE

The MIDI channel setting will return to the default value of "16" when the power is turned off. You can make this setting when you wish to temporarily change the MIDI receive channel.

■ Using the demo display

- 1** Simultaneously press [S1] and [S2] to put the MB-24 in demo display mode.
- 2** To exit demo display mode, simultaneously press [S1] and [S2] once again.

Specifications

MB-24:Level Meter Bridge

Jacks and Connectors

MIDI Connectors (IN/THRU)

AC IN Jack

Power Supply

AC 117 V, AC 230 V or AC 240 V

Power Consumption

8.8 W

Dimensions

700 (W) x 50 (D) x 110 (H) mm

27-9/16 (W) x 2 (D) x 4-3/8 (H) inches

Weight

2.0 kg

4 lbs 7 oz

Accessories

MIDI cable (1m)

Arms (Attachment for Roland VM-C7200/VM-C7100)

Rack Mount Angles

Owner's Manual



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

MIDI Implementation Chart

Function...	Transmitted	Recognized	Remarks
Basic Default Channel Changed	X X	X X	
Mode Default Messages Altered	Mode 3 X *****	Mode 3 X	
Note Number : True Voice	X *****	X X	
Velocity Note On Note Off	X X	O X	*1
After Key's Touch Channel's	X X	X X	
Pitch Bend	X	X	
Control Change	X	X	
Program Change : True Number	X *****	X	
System Exclusive	X	X	
System : Song Position Common : Song Select : Tune Request	X X X	X X X	
System : Clock Real Time : Commands	X X	X X	
Aux : All Sound Off Messages : Reset All Controllers : Local On/Off : All Notes Off : Active Sensing : System Reset	X X X X O X	X X X X O X	*2
Notes	* 1 Receives the information from the units which are compatible with the MB-24. * 2 Display will be reset if the interval of the signals exceed 500 ms.		

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

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

O : Yes
X : No

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 Heliopolis, Cairo,
EGYPT
TEL: (02) 4185531

REUNION

Maison FO - YAM Marcel
25 Rue Jules Merman ZI
Chaudron - BP 79 - 97491
Ste. Clotilde REUNION
TEL: 28 29 16

SOUTH AFRICA

That Other Music Shop
(PTY) Ltd.
11 Melle Street (Cnr Melle and
Juta Street)
Braamfontein 2001
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) 64 4030

ASIA

CHINA

Beijing Xinghai Musical
Instruments Co., Ltd.
6 Huangmuchiang 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 Galestra Inti
Kompleks Perkantoran
Duta Merlin Blok E No.6-7
Jl. Gajah Mada No.3-5,
Jakarta 10130,
INDONESIA
TEL: (021) 6335416

KOREA

Cosmos Corporation
Service Station
261 2nd Floor Nak-Won Arcade
Jong-Ro ku, Seoul, KOREA
TEL: (02) 742 8844

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: 243 9559

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, 9th. No. 112 Chung Shan
N.Road Sec.2, Taipei, TAIWAN.
R.O.C.
TEL: (02) 2561 3339

THAILAND

Theera Music Co., Ltd.
330 Verg 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: (8) 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.
R. Coronel Octaviano da Silveira
203 05522-010
Sao Paulo BRAZIL
TEL: (011) 843 9377

CHILE

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

EL SALVADOR

OMNI MUSIC
75 Avenida Notre y 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. 325 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: (03) 613 1414

PANAMA

Productos Superiores, S.A.
Apartado 635 - Panama 1
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