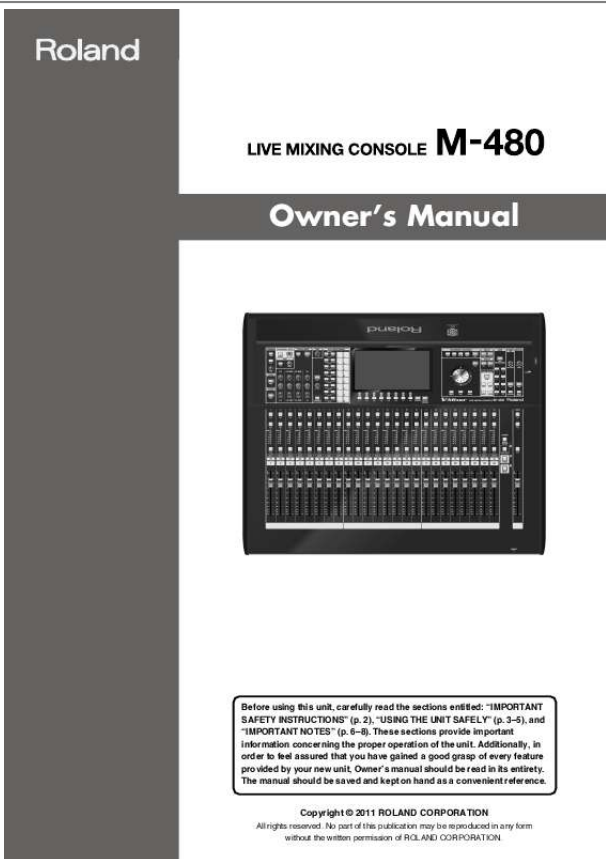




Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for ROLAND M-480. You'll find the answers to all your questions on the ROLAND M-480 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.


User manual ROLAND M-480
User guide ROLAND M-480
Operating instructions ROLAND M-480
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Instruction manual ROLAND M-480



Roland

LIVE MIXING CONSOLE **M-480**

Owner's Manual



Before using this unit, carefully read the sections entitled: "IMPORTANT SAFETY INSTRUCTIONS" (p. 2), "USING THE UNIT SAFELY" (p. 3-5), and "IMPORTANT NOTES" (p. 6-8). 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.

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Manual abstract:

35), and "IMPORTANT NOTES" (p. 68). @@@@No part of this publication may be reproduced in any form without the written permission of ROLAND CORPORATION. WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN ATTENTION : RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR 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. 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. 2. 3. 4. 5.

6. 7. 8. Read these instructions. Keep these instructions.

Heed all warnings. Follow all instructions. Do not use this apparatus near water. Clean only with a dry cloth. Do not block any of the ventilation openings. Install in accordance with the manufacturers instructions. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. @@A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety.

@@10. @@11. Only use attachments/accessories specified by the manufacturer. 12. @@13. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped. 9. 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. CAUTION: Danger of explosion if battery is incorrectly replaced.

Replace only with same or equivalent type. 2 USING THE UNIT SAFELY Used for instructions intended to alert the user to the risk of death or severe injury should the unit be used improperly. 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 other adverse effects respect to the home furnishings, as well animals or pets. to damage or caused with and all its to domestic 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 powercord plug must be unplugged from the outlet. Connect mains plug of this model to a mains socket outlet with a protective earthing connection. .

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..... Do not open or perform any internal modifications on the unit. .

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... 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.

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..... 004 003 002a 001-50 The unit should be connected to a power supply only of the type described in the operating instructions, or as marked on the rear side of unit.

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..... 008e 008a Use only the attached power-supply cord.
Also, the supplied power cord must not be used with any other device.

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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!

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. This unit, 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 immediately stop using the unit, and consult an audiologist.

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... 011 010 009 Never install the unit in any of the following locations. · 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 · Exposed to steam or smoke; or are · Subject to salt exposure; or are · Humid; or are · Exposed to rain; or are · Dusty or sandy; or are · Subject to high levels of vibration and shakiness. .

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..... Do not allow any objects (e.g.

, flammable material, coins, pins); or liquids of any kind (water, soft drinks, etc.) to penetrate the unit.

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.. 007 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. ..

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.. 3 Immediately turn the power off, remove the power cord 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 power-supply cord or the plug has been damaged; or · If smoke or unusual odor occurs · 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.



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.. *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.*

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.. *Protect the unit from strong impact. (Do not drop it!) ..*

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.. *015 014 013 012a 101a The unit should be located so that its location or position does not interfere with its proper ventilation.*

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.. 102b Always grasp only the plug on the power-supply cord when plugging into, or unplugging from, an outlet or this unit.

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.. At regular intervals, you should unplug the power plug and clean it by using a dry cloth to wipe all dust and other accumulations away from its prongs. Also, disconnect the power plug from the power outlet whenever the unit is to remain unused for an extended period of time. Any accumulation of dust between the power plug and the power outlet can result in poor insulation and lead to fire.

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... 104 103a 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.

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

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107b 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. ..

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

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..... 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. ..

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.. 020 016 Before moving the unit, disconnect the power plug from the outlet, and pull out all cords from external ay from the source of interference. 352a
This device may interfere with radio and television reception. Do not use this device in the vicinity of such receivers.

Noise may be produced if wireless communications devices, such as cell phones, are operated in the vicinity of this unit. Such noise could occur when receiving or initiating a call, or while conversing. Should you experience such problems, you should relocate such wireless devices so they are at a greater distance from this unit, or switch them irretrievably lost as a result of a malfunction, or the improper operation of the unit. To protect yourself against the risk of losing important data, we recommend that you periodically save a backup copy of important data you have stored in the unit's memory on a USB memory. Unfortunately, it may be impossible to restore the contents of data that was stored in the unit's memory, or on a USB memory once it has been lost. Roland Corporation assumes no liability concerning such loss of data. 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. 554 556 553 552 About USB memory Before using USB memory for the M-480, please format the memory on the M-480. For details, please refer to "Formatting USB memory"(p.

177). Some USB memory might not be able to be used on the M480. If an error message appears when formatting as described in "Formatting USB memory" (p.177), it is not possible to use this USB memory for the M-480. The M-480 supports only USB memory (USB flash Memory and USB flash drive). Hard Disk and Memory Card Reader via USB is not supported. USB memory does not work via USB hub. When the access lamp of USB memory is lit or blinking, please do not remove the USB memory. This might cause some damage to the data of the USB memory or deficit. We recommend to format USB memory before doing mixing operation on the M-480.

We recommend to use USB memory exclusively for the VMixer (M-300, M-380, M-400, or M-480) without storing any other files or programs. 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.

559a 557 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. Some connection cables contain resistors. Do not use cables that incorporate resistors for connecting to this unit. The use of such cables can cause the sound level to be extremely low, or impossible to hear.

For information on cable specifications, contact the manufacturer of the cable. 562 7 IMPORTANT NOTES Regarding the CAT5e cable In order to keep

superb digital transfer quality by REAC, please make sure to use following optional cables for 100m CAT5e cable: · SC-W100S 100M CAT5e cable · W100S-R 100M CAT5e cable with reel Copyright C-01-1 Recording, duplication, distribution, sale, lease, performance, or broadcast of copyrighted material (musical works, visual works, broadcasts, live performances, etc.) belonging to a third party in part or in whole without the permission of the copyright owner is forbidden by law. C-01-2 Channel Edit operation You might hear some noise when you control the following: · Preamp Gain · 4-band EQ · Gate · Compressor · Limiter · Channel Link · Library Recall However, this is not out of order. Do not use this product for purposes that could infringe on a copyright held by a third party. We assume no responsibility whatsoever with regard to any infringements of third-party copyrights arising through your use of this product. MMP (Moore Microprocessor Portfolio) refers to a patent portfolio concerned with microprocessor architecture, which was developed by Technology Properties Limited (TPL). Roland has licensed this technology from the TPL Group. Roland, REAC are either registered trademarks or trademarks of Roland Corporation in the United States and/or other countries. K-02 Cakewalk is a registered trademark of Cakewalk, Inc.

in the United States. T-01 Multiple connection of REAC products When multiple REAC products are connected to either REAC A or REAC B on the M-480 via REAC splitter or switching hub, please set the REAC mode on each product correctly. If you turn on the power of these products with REAC mode set incorrectly, there might be some digital noise generated from REAC products or M-480. If this happens, please turn off the power of all REAC products and set the REAC mode correctly. Company names and product names appearing in this document are registered trademarks or trademarks of their respective owners.



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..... 224 12 Introduction Check the included items The following items are included with the M-480. Make sure that all of them are present: · The M-480 itself · Power cord * Use only the power cord that was included with the M-480. Basic knowledge about REAC About REAC The REAC (Roland Ethernet Audio Communication) interface is the core of this system. It uses a proprietary protocol based on Ethernet technology, and allows 40 channels of digital audio to be sent in each direction via a single Cat5e Ethernet cable.

REAC can do the following: · Send 40 channels of digital audio in each direction · Send audio up to 100 meters on one Cat5e cable · A switching hub or the S-OPT option can be used to extend the cable. · Use a switching hub to easily split the signal · The transmission delay between REAC devices is extremely small (approximately 375 microseconds) Introduction · REAC connector covers (three) · Channel number sticker · Ferrite cores (four) · Owner's manual (the document you're reading) · Cover Conventions used in this manual 985 The explanations in this manual include illustrations that depict what should typically be shown by the display. Note, however, that your unit may incorporate a newer, enhanced version of the system, so what you actually see in the display may not always match what appears in the manual. When the signal passes through a switching hub, there will be approximately 200 microseconds of delay for each unit. Names The following input/output units can be connected to the M480's REAC ports: · S-1608 stage unit · S-0816 FOH unit · S-4000S 40-channel I/O modular rack (Ver.



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2.010 and later) · S-0808 8x8 I/O UNIT · S-4000M REAC MERGE UNIT About cables Since Cat5e Ethernet cables are used, it's very easy to connect REAC devices to each other. Cat5e Ethernet cables are commonly used for computer network connections, and have RJ45 plugs. Types of Ethernet cable There are two types of Ethernet cables. Although both types have the same exterior appearance, their RJ45 plugs are wired differently, as follows: · Crossover cable The REAC port on the M-480 does not support REAC EMBEDDED POWER.

When you connect an S-0808, install an external battery on the S-0808 to power via the DC IN port. Note, however, that when the connection on the M-480 is made via an S-4000M or S4000D, the S-0808 is powered by the S-4000M or S-4000D, and so no external battery is needed. The internal wiring of the cable is crossed at each RJ45 plug. This means that the connections of the RJ45 plugs will differ at each end of the cable. · Straight cable The internal wiring of the cable is the same at each end.

Crossover cables (such as Roland SC-W20F, Roland SC-W100S, or Roland W100S-R) should be used when connecting to the REAC ports on this product. In this manual, we may abbreviate these units as the S-1608, S0816, or S-4000S, or may refer to them collectively as input/output units. Text enclosed in square brackets [] indicates a button. For example, the direction to "press [METER]" means that you are to press the METER button. If a secondary name is shown for a button, such as [DISP (BUTTON ASSIGN)], the text in parentheses indicates the function that the button has when pressed while holding down [SHIFT]. In the case of function buttons, the function is given in parentheses, such as [F1 (LINK)]. Certain cautions apply if you're using a conventional switching hub with this system. For details, refer to "REAC applications" (p. 142). 13 Introduction Ethernet connectors Ethernet cables use RJ45 plugs. REAC equipment provides an RJ45 connector for each REAC port. fig.RJ45andREAC-j.eps fig.connect-REAC.

eps S-1608 S-1608 Introduction SLAVE Cat5e Cat5e SLAVE REAC A MASTER REAC B MASTER RJ45 plug REAC RJ45 connector For critically important communication, it is vital to protect the RJ45 plug and connector. For such situations, REAC RJ45 connectors use a sturdy Neutrik EtherCon plug. Using the EtherCon RJ45 plug allows a latched-type connector similar to an XLR plug. The Neutrik Corporation provides EtherCon RJ45 plugs, as well as EtherCon plugs that can be added to the RJ45 plug of commercially available Ethernet cable. M-480 The default input/output patching between the M-480 and input/output units connected to REAC ports A/B is as follows: Input jacks Input channel REAC A The RJ45 connectors of REAC ports can accept either RJ45 plugs or EtherCon plugs. IN116 IN116 CH116 CH1732 Outputs REAC B Output jacks Cautions for handling Cat5e cables · Do not apply excessive force to Cat5e cables. · Do not bundle (bend) a Cat5e cable to a radius less than 25 mm, or fold it in two. · Do not tightly bundle a Cat5e cable. · Do not place multiple Cat5e cables in parallel for an extended distance. · Do not place Cat5e cables near a source of electrical noise (power supply cord, motor, fluorescent lights, etc.

). REAC A OUT16 OUT78 OUT940 AUX16 MAIN L, R CH132 DIRECT OUTS AUX914 MAIN L, R CH132 DIRECT OUTS REAC B OUT16 OUT78 OUT940 You can change the input/output settings. For details, refer to "Input/output patchbay" (p. 86). REAC connections Here is a typical example of connections using the S-1608.

When connecting REAC devices to each other, the REAC mode of one device must be set to REAC master, and the REAC mode of the other must be set to REAC slave. In this system, the M-480 is normally set to be the master (FOH setting), while the input/output units are set to be slaves. Cautions when making REAC connections · REAC connections are designed so that noise will not be produced even if you hot-swap (plug or unplug a live connection). However in rare cases, noise may occur at the audio output of the system. To prevent hot-swapping from causing damage to your speakers or other equipment connected to the audio outputs, please observe the following points: · Make REAC connections while holding down the [MUTE ALL OUTPUTS] of the input/output unit. Before you make REAC connections, mute the outputs using [F6 (MUTE ALL OUT)] in the MUTE GROUP screen (p.

114). For a more detailed description of connections, refer to "REAC applications" (p. 142). Cat5e Ethernet cables up to 100 meters long are supported. If you need a longer connection, we recommend that you use the optional S-OPT. In some cases, the muted state will continue even after you release your finger from [MUTE ALL OUTPUTS] of the input/output unit. In this case, press [MUTE ALL OUTPUTS] once again to mute, and then release your finger to unmute the unit. 14 Introduction Placement Attaching the ferrite core Before using the M-480, you must attach the ferrite cores to the Ethernet cable or coaxial cable. This is for the purpose of preventing electromagnetic noise; do not remove it. About the REAC caps When the M-480 is shipped from the factory, REAC caps are attached to the REAC ports.

In order to use REAC port, you'll need to remove the REAC cap. Take care not to lose the REAC caps you remove. fig.connection.eps Introduction 1. Spread the tabs, and open the ferrite core. fig.core1.eps 2. Attach a ferrite core near the RJ45 plug on the Ethernet cable or near the RCA plug on the coaxial cable. fig.core2.eps About the REAC connector covers When using an Ethernet cable with standard RJ45 plugs, fit the included REAC connector covers on the REAC ports as shown. fig.REAC-cover-inst3.

eps 3. Close the ferrite core until you hear it snap shut. fig.core3.eps 4.

Connect the plug with the ferrite core to the M-480's REAC port or DIGITAL OUT jack. Remove the REAC connector cover if you're using an EtherCon type REAC cable (SC-W20F/SC-W100S/W100S-R). Take care not to lose the REAC connector covers you removed. 15 Introduction AC power connections Attaching the power cord hook 1. As shown in the illustration, fix the power cord hook over the AC power cord. fig.cord-hook1.eps Introduction Connect one end of the supplied AC power cord to a grounded AC outlet, and the other end to the AC INPUT connector to provide power for the M-480's internal power supply. Use only the supplied power cords to prevent damage to the units. 16 Introduction Turning the power on/off 5.

Turn on the power of your input/output units. Turning the power on 941 Introduction For information on how to turn on the power of the input/output unit, refer to the owner's manual of the unit.



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Once the connections have been completed, 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. fig.PowerOnOrder.eps 6. Turn on the power of the equipment connected to the audio outputs of the M-480 and your input/output units. 942 3 INPUT 5 OUTPUT 6 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.

943 Cat5e 4 Always make sure to have the volume level turned down before switching on power. Even with the volume all the way down, you may still hear some sound when the power is switched on, but this is normal, and does not indicate a malfunction. Turning the power off M-480 1. Mute the outputs using [F6 (MUTE ALL OUT)] in the MUTE GROUP screen (p. 114).

1. Connect your input/output units (S-1608, S-0816, S4000S, etc.) to the M-480's REAC port. 2. Turn off the power of the equipment connected to the audio outputs of the M-480 and your input/output units.
2. Connect your audio equipment to the audio inputs and audio outputs of the M-480 and your input/output units. 983 3. Turn off the power using the POWER switch located on the M-480's rear panel. Audio feedback could be produced depending on the location of microphones relative to speakers. This can be remedied by: 1. Changing the orientation of the microphone(s). 2. Relocating microphone(s) at a greater distance from speakers. 3.

Lowering volume levels. Before you turn off the power of the M-480, make sure that it is not reading/writing USB memory or reading/writing scene memory or library data. The data may be destroyed if you turn off the power during such operations. 4. Turn off the power of your input/output units. For information about how to turn the power of S-1608/S-0816 off, refer to the owner's manual of the S-1608/S-0816. 3. Turn on the power of the equipment connected to the audio inputs of the M-480 and your input/output units. 4. Turn on the power using the POWER switch located on the M-480's rear panel.

When the power supply has started up, a screen like the following will appear: fig.ScrMeter.eps For information about how to turn the power of S-0808 off, refer to the owner's manual of the S-0808. 5. Turn off the power of the equipment connected to the audio inputs of the M-480 and your input/output units. 921 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. 945 If you need to turn off the power completely, first turn off the POWER switch, then unplug the power cord from the power outlet. Refer to Power Supply (p. 6). 17 Introduction About the internal lithium battery Introduction The M-480 has an internal lithium battery that backs up the clock function and the mixer settings.

If this battery runs down, the clock function and the feature that provides for the reinstatement of the mixer settings that existed prior to switching off the power will no longer operate correctly. If a popup message recommending that you replace the battery appears when you turn on the power, replace the battery as described in the following procedure. Replace the old battery with a CR2032 type lithium battery. Ask your consumer electronics dealer for a "CR2032 type lithium battery." À propos de la pile interne au lithium Le M-480 est équipé d'une pile au lithium qui fait fonctionner l'horloge et préserve les réglages du mélangeur. Si la pile est faible, l'horloge et la restauration des réglages du mélangeur ne fonctionnent pas correctement. Si un message contextuel recommandant de remplacer la pile s'affiche lorsque l'appareil est mis sous tension, il faut la remplacer comme suit. Remplacement de la pile usée par une pile au lithium de type CR2032. Il faut s'assurer d'obtenir pile au lithium de type CR2032 du détaillant d'appareils électroniques. 1.

Faire une copie de sauvegarde des réglages du mélangeur interne dans la mémoire USB (p. 160). 1. Back up the M-480's mixer settings to USB memory (p. 160). 2. Couper l'alimentation du M-480 et débrancher le câble d'alimentation de la prise de courant. 2. Switch off the M-480's power, and disconnect the power cord from the AC outlet. 3.

Comme le montre l'illustration, retirer les deux vis qui retiennent le couvercle du compartiment de la pile et retirer le couvercle. fig.battery-panel1.eps 3. Remove the two screws that fasten the battery cover as shown in the illustration, and detach the battery cover. fig.battery-panel1.eps 4. Remove the old battery, and insert the new battery. Be careful not you cut your hand.

4. Retirer la pile usée et insérer la pile neuve. Faites attention de ne pas vous couper. 5. Attach the battery cover as shown in the illustration, and fasten it using the two screws you removed in step 3. fig.battery-panel2.eps 5. Remettre en place le couvercle du compartiment de la pile et le fixer à l'aide des deux vis retirées à l'étape 3. fig.

battery-panel2.eps 6. Turn on the power of the M-480, and set the date and time (p. 162). 6. Mettre le M-480 sous tension et régler la date et l'heure (p. 162).

7. Load the previously saved settings (MIXER PARAMETER, SYSTEM SETTING) from the USB memory to which you backed up the data in step 1. (p. 160) 7. Charger les réglages enregistrés (PARAMÈTRE DU MÉLANGEUR, RÉGLAGE DU SYSTÈME) dans la mémoire USB où la copie de sauvegarde a été faite à l'étape 1. (p. 160) 18 Introduction About USB memory The M-480 can use USB memory to store and read a variety of data. · Record and play WAV files using the USB Memory Recorder · Save and load user settings files · Back up and recover internal mixer data 931 Introduction Carefully insert the USB memory all the way in--until it is firmly in place.

USB memory used with the USB Memory Recorder must support USB 2.0 (Hi-speed). About the USB memory cover When the M-480 is shipped, a USB memory cover is attached to the USB MEMORY connector. Remove the USB memory cover when using USB memory. Take care not to lose the USB memory cover so it can be returned to the USB MEMORY connector protecting it from loose debris.

fig.USBCap.eps 19 Explanation of the panels Top panel/Front panel fig.TopPanelGuide.eps 5 7 8 10 9 11 12 13 Explanation of the panels 6 4 17 16 15 14 1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 23 p. 21 p. 21 p. 22 p. 22 p. 25 p.

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28 p. 28 Fader module section Layer section MAIN fader module CHANNEL EDIT section Display Function button section [EFFECTS] button [METER] button Screen controller section USB MEMORY RECORDER section SETUP section GROUP section SCENE MEMORY section USER Section TALKBACK/OSC Section MONITOR Section USB MEMORY connector 20 Explanation of the panels 1 Fader module section fig.FaderModSectGuide.eps 2 LAYER section fig.LayerSectGuide.

eps 1 2 1 Explanation of the panels 2 3 3 4 4 This section lets you select the channel layer that will be assigned to the fader module section. The button of the currently assigned channel layer will be lit. 5 1 [USER] layer button This switches the USER layer mode on/off. It also calls up user faders to the fader module section. Button User Fader Layer [AUX/MTX] [CH 2548] [CH 124] Layer 3 Layer 2 Layer 1 "Editing the user fader layers" (p.

139) This section lets you control the 24 channels you selected in the Layer section. 1 [SEL] buttons 2 [AUX/MTX] layer button This assigns AUX116 and MTX18 to the fader module section. 3 [CH 2548] layer button Use these buttons to select the channel that you want to control in the CHANNEL EDIT section or in the screen. The [SEL] button of the currently selected channel will light. 2 [SOLO] buttons This assigns CH2548 to the fader module section 4 [CH 124] layer button These buttons turn solo on/off for each channel. The button will be lit when solo is on. This assigns CH124 to the fader module section. "Using Solo" (p. 119) 3 Meters These indicate the signal level of each channel. "Editing the meter settings" (p.

96) 4 [MUTE] buttons These turn muting on/off for each channel. The button will be lit if mute is active. 5 Faders These adjust the signal level of each channel. 21 Explanation of the panels 3 MAIN fader module fig.MainFaderModGuide.eps 4 CHANNEL EDIT section fig.ChEditSectGuide.eps 6 7 8 9 1 1 3 2 Explanation of the panels 2 3 4 5 4 In this section you can operate the main parameters of the currently selected channel. 1 [TOUCH SELECT] button This button turns the Touch Select function on/off. It will light if the Touch Select function is on.

The Touch Select function lets you select a channel by touching its fader. 1 [SEL] button 2 [CH DISP] button This button selects the MAIN channel so that it can be controlled from the CHANNEL EDIT section or in the screen. It will light if the MAIN channel is selected. This button accesses the CHANNEL DISPLAY screen. It will light red when the screen is shown.

fig.ChEdtBtm.eps By repeatedly pressing [SEL] you can alternately select the MAIN L, MAIN R, or MAIN C channels. 2 [SOLO] button This button turns solo on/off for the MAIN L/R/C channels. It will be lit if solo is on.

3 [MUTE] button This turns muting on/off for the MAIN L/R/C channel. The button will be lit if mute is active. 4 Fader This adjusts the signal level of the MAIN L/R/C channels. 22 Explanation of the panels 3 PREAMP area fig.ChEditPreamp.eps This control is invalid for the following channels: ·AUX116 ·MTX18 ·MAIN L/R/C Explanation of the panels 5 COMP area fig.ChEditComp.eps · [+48V] button This turns the +48V phantom power on/off. · [PAD] button This switches the pad on/off. Turning this on will lower the input sensitivity of the preamp by 20 dB.

· GAIN knob This adjusts the preamp gain of CH148. When ATT Ctrl (p. 50) on the CHANNEL DISPLAY screen is active, this also adjusts the attenuator. This adjusts the attenuator of AUX116, MTX18, or MAIN L/R/C. In this area you can operate the compressor that is provided on CH148 and the limiter that is provided on AUX116, MTX 18, and MAIN L/R/C. · [DISP] button This accesses a popup where you can make detailed settings. This will access the COMPRESSOR popup for CH148, or the LIMITER popup for AUX116, MTX 18, and MAIN L/R/C. The button will light red when the popup is shown. These controls are invalid for the following channels: · Input channels to which you have not patched an input port · Input channels to which you've patched a port that has no preamp gain, such as an internal port You can turn the compressor or limiter on or off by holding down [SHIFT] and pressing [DISP]. 6 HPF (High-pass filter) area fig.

ChEdtFilter.eps 4 GATE area fig.ChEdtGate.eps In this area you can operate the HPF that is provided for CH148. · [ON] button This button turns the filter on/off.

It will light if the filter is on. · FREQ knob This adjusts the frequency of the filter. In this area you can operate the gate/expander that is provided for CH148. · [DISP] button This accesses the GATE/EXPANDER popup where you can make detailed settings. The button will light red when the popup is shown.

These controls are invalid for the following channels: ·AUX116 ·MTX18 ·MAIN L/R/C You can turn the gate/expander on or off by holding down [SHIFT] and pressing [DISP]. 23 Explanation of the panels 7 EQUALIZER area fig.ChEditEQ.eps 8 AUX/MTX SENDS area fig.ChEdtAux.eps Explanation of the panels In this area you can operate the 4-band EQ that is provided on CH148, AUX116, MTX 18, and MAIN L/R/C. · [ON] button This button turns the EQ on/off. It will light if the EQ is on. · [DISP] button This accesses the EQUALIZER popup where you can make detailed settings. The button will light red when the popup is shown.

· Q knob This adjusts the Q of each band. · FREQ knob This adjusts the frequency of each band. · GAIN knob This adjusts the gain of each band. You can turn the corresponding send switch on/off by holding down [SHIFT] and pressing [AUX1][AUX16]. In this area you can adjust the send level to the AUX/MTX buses. · [AUX1][AUX16] buttons These buttons select the send-destination bus. AUX or MTX can be selected on CH and RTN, MTX can be selected on AUX and MAIN. To select an MTX as the send-destination, hold down one of the [AUX1][AUX8], and press its right side [AUX9][AUX16]. · [DISP] button This button accesses the AUX (MTX) SENDS popup. It will light red when the popup is shown.

· LEVEL knob This adjusts the send level to the selected AUX/MTX bus. When the GATE/EXPANDER popup (p. 71), COMPRESSOR popup (p. 76), or LIMITER popup (p. 80) is displayed, the parameters of the gate/expander, compressor, or limiter can be adjusted using the Q knobs, FREQ knobs, or GAIN knobs.

8 PAN area fig.ChEdtPan.eps If a MTX channel is selected, this will adjust the send levels from AUX116 to MTX. If AUX/MTX buses are stereo-linked, selecting the oddnumbered AUX/MTX bus will let you adjust the send pan, and selecting the even-numbered AUX/MTX bus will let you adjust the send level.



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· PAN knob For CH 148 and RTN 1L6R, this adjusts the pan.

For AUX 1 16, MTX 18, MAIN L/R, it adjusts the balance. · [SENDS ON FADER] button This button turns SENDS ON FADER mode on/off. It will blink if SENDS ON FADER mode is on. "Using the SENDS ON FADER" (p. 45) 24 Explanation of the panels 5 Display fig.DisplayGuide.eps 9 Screen controller section fig.GenCtrlSectGuide.eps 1 5 Explanation of the panels This area shows mixer parameters, system settings, and meters. You can use the CHANNEL EDIT section, the function button section, and the screen controller section to perform operations in the display.

2 1 3 4 6 Function button section fig.FunctionSectGuide.eps Cursor buttons / Value dial These buttons move the cursor up/down/left/right in the screen. · Cursor buttons · Value dial Use these buttons to operate the function buttons shown at the bottom of the display, and to operate the tabs that switch between display screens. This adjusts the value of the parameter at which the cursor is located. 2 [SHIFT] button This button has the following two functions: 7 [EFFECTS] button fig.EffectsBtn.eps · Some buttons change their function while [SHIFT] is held down. · You can hold down [SHIFT] to modify the range by which a value will change when you operate the CHANNEL EDIT section's knob or the value dial, allowing you to adjust the setting in finer detail. This button accesses the EFFECTS screen where you can control the FX, GEQ, and external inserts.

It will light red when the screen is shown. You can use the user preference SHIFT LOCK (p. 141) to change the behavior of the SHIFT button. 3 [EXIT] button 8 [METER] button fig.MeterBtn.

eps If you press this button while another screen is shown, you will return to the HOME screen. If you press this button while a popup is shown, the popup will close. 4 [ENTER] button Use this button to turn an on-screen button on/off, or to confirm a change you've made to the settings. 5 [HELP] button This button accesses the METER screen where you can view the meters. It will light red when the screen is shown.

This button accesses the HELP CONTENTS popup. If you hold down [HELP] and press another button, an explanation of that button will appear in the HELP popup. This button will light red while the popup is shown. You can clear the level meter's peak hold or over indications by holding down [SHIFT] and pressing [METER]. For more about using HELP, refer to the "Help function" (p. 167). 25 Explanation of the panels 10 USB MEMORY RECORDER section fig.RecorderSectGuide.eps 11 SETUP section fig.SetupSectGuide.

eps 1 2 3 4 1 2 Explanation of the panels 1 [PATCHBAY] button 1 []/[] button Here you can select the song to play, and rewind or fastforward the playback. · Selecting a song By pressing these buttons, you can jump to the beginning of the preceding or following song. During playback, [] takes you back to the beginning of the playing song. · Rewinding or fast-forwarding during playback By pressing and holding these buttons while a song is playing, you can rewind or fast-forward. Normal playback will resume when you release the button. 2 [] This button accesses the PATCHBAY screen where you can make settings for the input/output patchbay. It will light red while the screen is shown. 2 [SYSTEM] button This button accesses the SYSTEM screen where you can make various system settings. It will light red when the screen is shown. 12 GROUP section fig.

GroupSectGuide.eps 1 2] button Use this button to start or stop playback, or to start recording. · Playing a song When you press this button while the recorder is stopped, the currently selected song will play. · Stopping a song When you press this button while the song is playing, playback will stop. · Starting recording When you press this button in recording-standby mode, recording will start.

· Stopping recording When you press this button while recording a song, recording will stop. 3 REC button 1 2 1 [DCA] button This button accesses the DCA GROUP screen where you can control the DCA groups and make settings for them. It will light red when the screen is shown. 2 [MUTE] button This button accesses the MUTE GROUP screen where you can control the mute groups and make settings for them. It will light red when the screen is shown.

Use this button to put the recorder in recording-standby mode, or to divide the song currently being recorded. · Recording-standby mode When you press this button while the recorder is stopped, the recorder will enter recording-standby mode. Press [] to start recording. · Dividing the song currently being recorded When you press this button while a song is being recorded, recording of the song currently being recorded will be completed, and recording of a new song will begin. 4 [DISP] button This button accesses the RECORDER screen where you can make recorder settings and manage the song list. It will light red when the screen is shown. 26 Explanation of the panels 13 SCENE MEMORY section fig.SceneMemSectGuide.eps 14 USER section fig.UserSectGuide.

eps 1 2 Explanation of the panels 1 3 4 1 [DISP] button This button accesses the SCENE screen where you can manage the scene list and make scene settings. It will light red when the screen is shown. 2 Holding down [SHIFT] and pressing [DISP] displays the SCENE QUICKVIEW popup (p. 123). 2 [RECALL] button This recalls the mixer parameters from the currently selected scene number. 3 [PREV] / [NEXT] buttons 1 [DISP] button These buttons move to the preceding or following scene number. 4 [STORE] button This button accesses the USER screen where you can change or edit the user settings. It will light red when the screen is shown. This stores the current mixer parameters into the currently selected scene number. If you hold down [SHIFT] and press this button, the USER BUTTON tab of the USER PREFERENCE popup will appear.

This is a convenient way to check the user button settings. 2 USER [1][8] buttons These access the function that is assigned to each button. You can make function assignments in the USER PREFERENCE popup. For details, refer to "Editing the user button assignments" (p. 140).

By holding down [SHIFT] and pressing a USER18 button, you can access the functions assigned to user buttons 916. 27 Explanation of the panels 15 TALKBACK/OSC (talkback/oscillator) section fig.TalkbackOscSectGuide.eps 16 MONITOR section fig.MonitorSectGuide.

eps Explanation of the panels 1 1 2 2 3 3 1 MIC LEVEL knob 1 LEVEL knob This adjusts the preamp gain of the TALKBACK MIC input over a range of -10 dBu -50 dBu. This adjusts the monitor output level in a range of -Inf dB +10.



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Refer to Power Supply (p. 6). 13 Grounding terminal Use this to connect the M-480 to an electrical ground. 927 17 Security slot 988 You can attach a commercially available security lock here. For details, refer to the following website: <http://www.kensington.com/> Do not ground the M-480 to locations such as the following: · Water pipe (doing so may cause electrical shock) · Gas pipes (doing so may cause fire or explosion) · Telephone ground or lightning rod (hazardous if lightning occurs) 927 18 BATTERY slot fig.BatterySlotGuide.eps Depending on the circumstances of a particular setup, you may experience a discomforting sensation, or perceive that the surface feels gritty to the touch when you touch this device, microphones connected to it, or the metal portions of other objects, such as guitars.

This is due to an infinitesimal electrical charge, which is absolutely harmless. However, if you are concerned about this, connect the ground terminal (see figure) with an external ground. When the unit is grounded, a slight hum may occur, depending on the particulars of your installation. If you are unsure of the connection method, contact the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page. This slot contains a lithium battery that maintains the M-480's clock function and preserves the mixer settings. If the battery runs down, you'll need to replace it. For details on replacing the battery, refer to "About the internal lithium battery" (p. 18). 14 AC INPUT connector fig.ACInletGuide.

eps Connect the included power cord to the AC INPUT connector. Do not connect any power cord to the M-480 other than the included one. 32 Explanation of the panels Front Panel PHONES jack You can connect a set of headphones to this jack, and use it to monitor the MONITOR L/R audio signal. Explanation of the panels PHONES LEVEL knob This adjusts the output level to the headphones connected to the PHONES jack. 33 Basic operation Basic panel operations fig.

PanelOperationGuide.eps CHANNEL EDIT section Basic operation [SEL] LAYER section Fader module section Selecting the channel layer 1. Use the Layer section buttons to select the channel layer that will be controlled by the fader module section. You can make adjustments in finer increments by holding down [SHIFT] while you operate the CHANNEL EDIT section's knobs or the value dial. Operating channel 1.

Use a fader in the fader module section to adjust channel levels. If you want to edit channel parameters that are not shown in the CHANNEL DISPLAY screen, you can press the [DISP] button in each area of the CHANNEL EDIT section to access a screen that lets you make settings in greater detail. 2. Press a [SEL] button to select the channel that you want to edit. fig.ScrChDisp.eps If you clear the check mark for the CHANNEL SELECT item "CHANNEL DISPLAY follows CH SELECT button" in User Preference (p. 141), pressing a [SEL] will select the channel without showing the CHANNEL DISPLAY screen. In this case, you can access the CHANNEL DISPLAY screen by pressing the [CH DISP] in the CHANNEL EDIT section. The CHANNEL DISPLAY screen will appear.

3. Use a controller in the CHANNEL EDIT section to adjust the values. 34 Basic operation Accessing a screen When you press a screen select button that's lit in green, or a screen select button that has a blue border, the corresponding screen or popup will appear, and the button will light in red. The following illustration shows the name of the screen or popup that appears for each button: fig.DispBtnGuide.eps RECORDER screen 4-BAND EQ popup CHANNEL DISPLAY screen GATE/EXPANDER popup HELP CONTENTS popup PATCHBAY screen SYSTEM screen USER screen Basic operation MUTE GROUP screen DCA GROUP screen TALKBACK/ OSCILLATOR screen MONITOR screen SCENE screen COMPRESSOR/ LIMITER popup AUX/MTX SENDS popup METER screen EFFECTS screen Popups are displayed on top of the screen. You can close the popup by pressing the button that turned red when you accessed that popup. Home screen To return to the Home screen, press the button that turned red when you pressed it to access a screen. (Buttons that access a popup are excepted.) A user setting lets you choose either the CHANNEL DISPLAY screen or the METER screen as the Home screen.

For details on how to choose the Home screen, refer to "Editing other user preferences" (p. 141). 35 Basic operation Screen operations About the screen display fig.ScrGuide.eps 1 Basic operation 3 2 4 1 Top display area 1 2 3 4 5 6 3 REAC indications fig.

ScrTBScrDisp.eps These indicate the status of the REAC A/B: Display Unlighted Description No REAC device connected Establishing connection with REAC device. Normal connection with REAC device This area is always shown in the upper part of the screen. 1 Screen name Flashing Lighted This shows the name of the screen currently shown in the main display area. 3 Date&time indication This shows the current date and time.

5 User setting indication The background color of the Screen name will change depending on the channel layer selected: Layer CH 124 CH 2548 AUX/MTX USER Layer 1 USER Layer 2 USER Layer 3 Color Yellow Orange Blue Yellow with red line Orange with red line Blue with red line This shows the current user settings. 6 Scene indication This shows the number and name of the currently selected scene. 2 Main display area fig.ScrMainArea.eps 2 Channel indicator This indicates the currently selected channel's number, name, and port name. A port name such as "A: IN 1" blinks when the corresponding input/output unit is not connected correctly, or a non-existent port is patched to the channel. Most screen operations are performed in this area. The name of the current screen is shown in the screen name indication of the top display area. You can use the cursor and function buttons to perform operations in this area. 36 Basic operation 3 Main level indication fig.

ScrMainMeter.eps Popup Indication These are popups that are shown overlaid on the main display area. They provide a cursor and function buttons for performing operations in the screen. fig.Popups.eps Basic operation While a popup is displayed, cursor and function button operations are valid only for the popup. This shows the output level of the MAIN L/R/C. Function button operations fig.FuncBtnGuide.eps 4 Sub-display area The function buttons are assigned to the main display area of the screen or the popup, and are operated using [F1][F8].

There are three types of function buttons, as follows: Command function buttons fig.FuncBtnCmd.eps This area shows supplementary information. The following information is shown: Indication of the currently edited parameter value fig.



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