

gemini[®]

MM-1000 Mixer

19" 3 CHANNEL STEREO MIXER
PROFESSIONELLER 3-KANAL STEREO-MIXER
MEZCLADOR ESTEREO DE 3 CANALES PROFESIONAL
MIXER STEREO 3 VOIES PROFESSIONNEL
OPERATIONS MANUAL
BEDIENUNGSHANDBUCH
MANUAL DEL OPERADOR
MANUEL D'INSTRUCTIONS



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MULTI LANGUAGE INSTRUCTIONS

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PLEASE READ BEFORE USING APPLIANCE, IMPORTANT WARNING & SAFETY INSTRUCTIONS!



CAUTION
RISK OF ELECTRICAL SHOCK DO NOT OPEN!



CAUTION: This product satisfies FCC regulations when shielded cables and connectors are used to connect the unit to other equipment. To prevent electromagnetic interference with electric appliances such as radios and televisions, use shielded cables and connectors for connections.

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 appliance.

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.

READ INSTRUCTIONS: All the safety and operating instructions should be read before the product is operated.

RETAIN INSTRUCTIONS: The safety and operating instructions should be retained for future reference.

HEED WARNINGS: All warnings on the product and in the operating instructions should be adhered to.

FOLLOW INSTRUCTIONS: All operating and use instructions should be followed.

CLEANING: The product should be cleaned only with a polishing cloth or a soft dry cloth. Never clean with furniture wax, benzene, insecticides or other volatile liquids since they may corrode the cabinet.

ATTACHMENTS: Do not use attachments not recommended by the product manufacturer as they may cause hazards.

WATER AND MOISTURE: Do not use this product near water, for example, near a bathtub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.

ACCESSORIES: Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

CART: A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn. See Figure A.

VENTILATION: Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

POWER SOURCES: This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company.

LOCATION: The appliance should be installed in a stable location.

NON-USE PERIODS: The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

GROUNDING OR POLARIZATION:

• If this product is equipped with a polarized alternating current line plug (a plug having one blade wider than the other), it will fit into the outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

• If this product is equipped with a three-wire grounding type plug, a plug having a third (grounding) pin, it will only fit into a grounding type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding type plug.

POWER-CORD PROTECTION: Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

OUTDOOR ANTENNA GROUNDING: If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with

regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure B.

LIGHTNING: For added protection for this product during a lightening storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightening and power-line surges.

POWER LINES: An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

OVERLOADING: Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

OBJECT AND LIQUID ENTRY: Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

SERVICING: Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

DAMAGE REQUIRING SERVICE: Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- When the power-supply cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into the product.
- If the product has been exposed to rain or water.
- If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
- If the product has been dropped or damaged in any way.
- When the product exhibits a distinct change in performance, this indicates a need for service.

REPLACEMENT PARTS: When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

SAFETY CHECK: Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

WALL OR CEILING MOUNTING: The product should not be mounted to a wall or ceiling.

HEAT: The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.



Fig. A

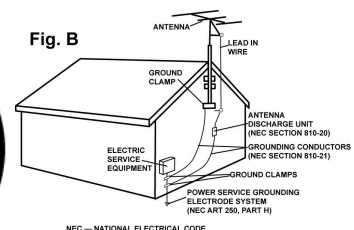
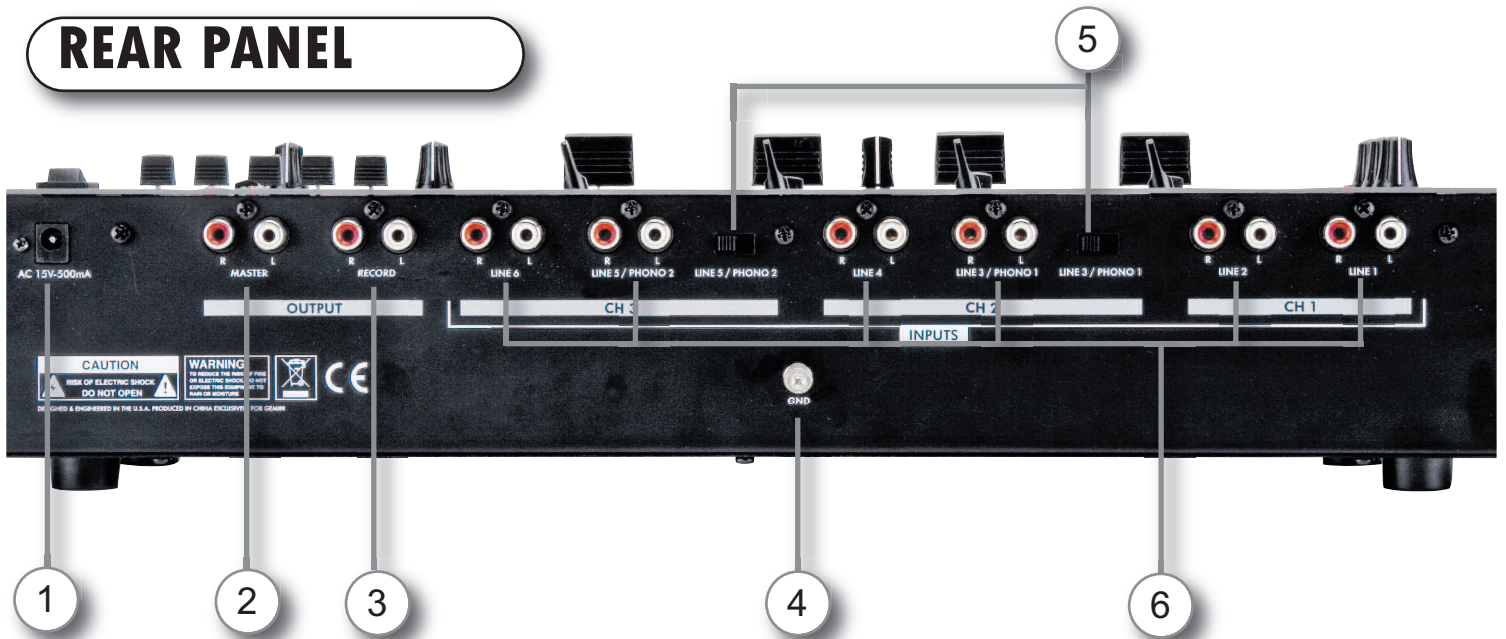


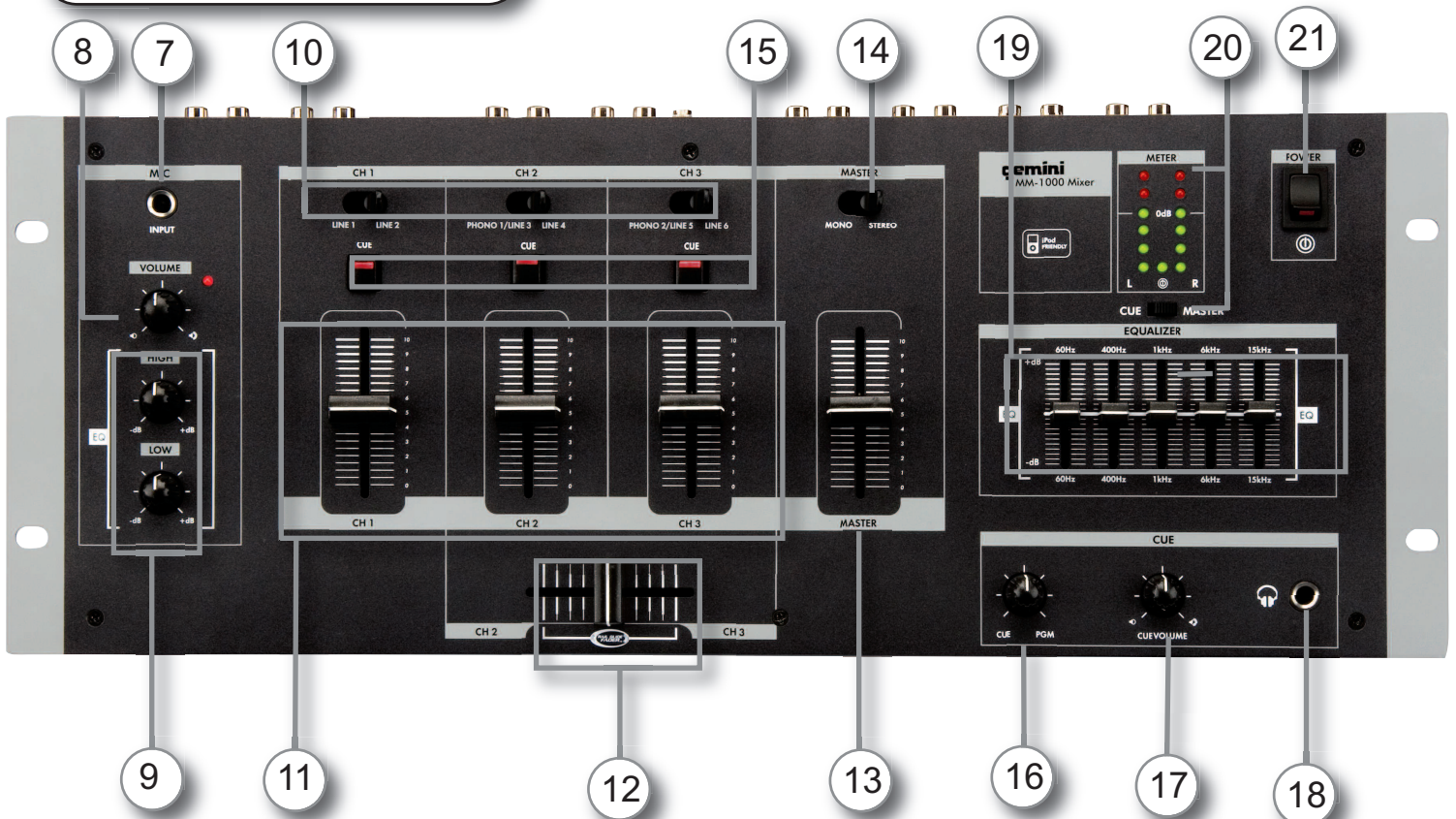
Fig. B

NEC — NATIONAL ELECTRICAL CODE

REAR PANEL



TOP PANEL



INTRODUCTION

Congratulations on your purchase of Gemini MM-1000 19" 3 channel stereo mixer. This-state-of-the-art mixer features the latest technological advances and is backed by a 1 year warranty, excluding the cross fader. The cross fader is backed by a separate 90 day warranty. Prior to use we suggest that you carefully read all the instructions.

FEATURES

- 19" 3 Stereo channel mixer
- 6 line, 2 convertible phono/line, RCA inputs
- Master & record RCA outputs
- Microphone Input
- 5 band graphic equalizer.
- Cue button switches for easy channel cue
- Rotary cue volume, CUE/PGM
- Dual VU display with mode switch
- Master fader with Mono/Stereo selector

PRECAUTIONS

1. All instructions should be read before using this equipment.
2. To reduce the risk of electrical shock, do not open the unit. Please refer all servicing needs to a **Gemini-qualified** service technician.

IN THE USA ~ IF YOU EXPERIENCE PROBLEMS WITH THIS UNIT CALL GEMINI CUSTOMER SERVICE AT: 1 (732) 346-0061. Do NOT ATTEMPT TO RETURN THIS EQUIPMENT TO YOUR DEALER.

3. Do not expose this unit to direct sunlight or a heat source such as a radiator or stove.
4. This unit should be cleaned only with a damp cloth. Avoid solvents or other cleaning detergents.
5. When moving this equipment it should be placed in its original carton and packaging. This will reduce the risk of damage during transit.
6. **DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.**
7. **DO NOT USE SPRAY CLEANERS OR LUBRICANTS ON CONTROLS, SURFACES OR SWITCHES.**

CONNECTIONS

Ensure that the **POWER SWITCH** is in the **OFF** position prior to making any connections.

POWER CORD
This unit comes with a **POWER CORD**. Plug in to the rear panel **POWER CORD** socket before plugging it in to a proper power source.

The **MM-1000** has 2 stereo outputs located on the rear panel:

The **MASTER RCA OUTPUT** connects the mixer to your main amplifier using standard audio cables with RCA-type connectors.

The **RECORD RCA OUTPUT**
The **RECORD** output jacks can be used to connect the mixer to the record input of your recording unit, thus enabling you to record your mix with **RCA** cables.

GROUNDING SCREW
When using (a) turntable(s), you will need to ground the **RCA** cable(s) by screwing in the grounding fork(s) to the **GROUNDING SCREW** located on the rear panel of the **MM-1000** mixer. Attach a **PHONO** (Turntable) ground line to the silver **GROUND THUMB SCREW** that is situated at the bottom middle of the rear panel.

CONVERTIBLE PHONO/LINE INPUTS
The **MM-1000** has **2 CONVERTIBLE PHONO/LINE (PH/LN) RCA INPUTS** These small switches which are located to the right of the **RCA** inputs for channels 2 and 3 allow you to choose between a **PHONO** (Turntable) input or a **LINE** level (Mp3, CD, Tape player etc..)and require the proper switching.

When switched to the **PH** position you may use any Turntable with a magnetic cartridge, remember to connect your ground wire (see **GROUNDING SCREW**) or there may be a system hum

And when the switch is in the **LN** position you may connect any line level device as described before (Mp3, CD, Tape etc).

NOTE: CONNECTING A LINE LEVEL DEVICE TO A PH INPUT MAY CAUSE THAT MIXER CHANNEL TO OVERLOAD AND OR DISTORT.

Now you may plug the **RCA's** from your playable medium into each input to be connected to their respective **CHANNELS (CH)**.

Then when all of your connections have been made turn on the mixer by pressing the **POWER SWITCH**.

MIC (MICROPHONE) INPUT
The **MIC** or Microphone input is located at the top left hand corner of the front of the **MM-1000** and will accept any standard balanced and unbalanced 1/4" connector. You can control the gain and even set the low's and the high's for the mic (See **CONTROLS**) below.

HEADPHONE OUTPUT
The **HEADPHONE OUTPUT** located at the bottom right hand corner of the **MM-1000** will accept any headphone with a standard 1/4" connector and or adaptor and will allow you to **CUE** your music program before you play it, you can adjust the volume and **PGM** mix of the **HEADPHONE** (see **CONTROLS**) below.

CONTROLS

MICROPHONE CONTROL
Under the microphone input jack are the microphone controls, which consist of:

MICROPHONE VOLUME
Which allows you to adjust the volume of the microphone signal.

MICROPHONE EQ
Which allows you to control the low frequency and the high frequency of the microphone signal.

CHANNEL INPUT SELECTOR
The **CHANNEL INPUT SELECTOR** switches allow you to choose which input will be controlled by that channels corresponding volume **FADER**.

For example on **CHANNEL (1)** the **INPUT SELECTOR** allows you to choose between **LINE 1** in or **LINE 2** in, and on **CHANNEL (2)** The **INPUT SELECTOR** allows you to choose between **PHONO 1/LINE 3** and **LINE 4** , and also on **CHANNEL (3)** the **INPUT SELECTOR SWITCH** will let you choose between **PHONO 2/LINE 5** and **LINE 6**. (see **CONVERTIBLE LINE INPUT**) for **PHONO 1/ LINE 3** and **PHONO 2/ LINE 5** switching.

CHANNEL VOLUME FADER
After you have chosen which input you will use with the **INPUT SELECTOR** the corresponding **CHANNEL FADER** will allow you to adjust the volume for that particular **CHANNEL**.

CROSS FADER
The **CROSS FADER** allows you to mix evenly from one source to another. On the **MM-1000** The **CROSS FADER** controls the mix between **CHANNEL 2** and **CHANNEL 3**. The **CROSS FADER** on the **MM-1000** is removable and if the need arises can be replaced. The **RG-45 (RAILGLIDE™) DUAL-RAIL CROSS FADER**, which has internal dual stainless steel rails that allow the slider to ride smoothly and accurately from end to end can be purchased from your local **GEMINI** dealer.

SEE REPLACEMENT INSTRUCTION ON THE NEXT PAGE.

FADER REPLACEMENT

Before replacing the **FADER** you must first remove the main faceplate of the **MM-1000**. Start by removing all the **FADER** type knobs like the **CHANNEL** fader the **GRAPHIC EQ** and of course the **CROSSFADER** itself. After you have completed that, you must remove the six screws located on the front of the faceplate. Then gently lift the plate to uncover the the old **CROSS FADER**.

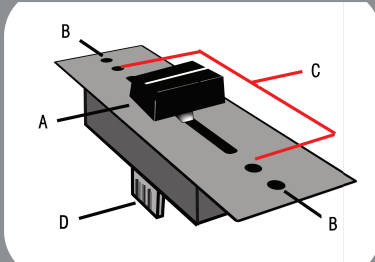
Then follow the next four steps to replace the actual fader.

1. UNSCREW THE FADER (B) SCREWS. DO NOT TOUCH INSIDE SCREWS (C) CAREFULLY REMOVE OLD CROSS FADER AND UNPLUG CABLE (D)

2. PLUG IN THE NEW CROSS FADER INTO CABLE (D) AND PLACE BACK INTO MIXER.

3. SCREW THE CROSS FADER TO MIXER WITH THE FADER PLATE SCREWS (B)

4. REPLACE THE FACE OF THE MIXER AND SCREW THE FOUR SCREWS BACK IN AND REPLACE THE FADER KNOBS.



NOTE: WHEN USING THE CROSS FADER LIGHTLY GLIDE THE FADER BACK AND FORTH. PRESSING DOWN ON THE CONTROLS CAN BEND CONTACTS AND CAUSE A LOSS OF SOUND.



“iPod Friendly” Cable: To connect your iPod or other Digital Media Player, use the included iPod cable. Connect the 1/8” end of the cable to the headphone or line out jack of your player, and connect the RCA to the line input of your mixer.

SPECIFICATIONS

INPUTS:

Phono.....3mV,47 KOhm
Line.....150 mV, 27 KOhm
MIC.....1.5 mV, 1 KOhm Balanced

OUTPUTS:

Max.....20V Peak-to-Peak
Rec.....225 mV, 5 KOhm

GENERAL:

Frequency Response.....20Hz - 20KHz +/- 2dB
Distortion.....< 0.02%
S/N Ratio.....Better than 85 dB
Headphone impedance.....16 Ohm
Power Source (external).....AC 15V, 500mA
Unit Dimensions.....19” x 3.3” x 7”
.....(482.6 x 83.82 x 177.8 mm)
Weight.....6.35 lbs (2.88 kg)

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTIFICATION FOR IMPROVEMENT

CONTROLS CONTINUED

MASTER FADER 13

The **MASTER FADER** adjusts the volume of the main music program.

MONO/STEREO SWITCH 14

The **MONO/ STEREO SWITCH** allows you to set the main output to mono which is a combination of both **LEFT** and **RIGHT** inputs . And **STEREO** which is a standard **LEFT** pan **RIGHT** pan stereo setup.

CHANNEL CUE BUTTONS 15

The **CHANNEL CUE BUTTONS** allow you to individually choose which channel you wish to monitor in your headphones, you can monitor one at a time or any combination of the three.

CUE/PGM ROTARY KNOB 16

The **CUE/PGM ROTARY KNOB** determines the mix between the chosen **CHANNEL CUE BUTTON**(s) and the **MAIN OUTPUT** mix.

CUE VOLUME ROTARY KNOB 17

The **CUE VOLUME ROTARY KNOB** adjusts your **HEADPHONE MONITOR OUTPUT'S** volume.

HEADPHONE MONITOR OUTPUT 18

The **HEADPHONE MONITOR OUTPUT** will accept any standard 1/4” connector and can be used for **CUE MONITORING** as described above.

5 BAND GRAPHIC EQUALIZER 19

The **5 BAND GRAPHIC EQUALIZER** adjust the tone of the **MAIN OUTPUTS** by giving you a choice **5** frequencies (**BANDS**) to adjust , from lows **60Hz** and **400Hz** to midrange **1KHz** to highs **6KHz** and **15KHz** you can use the adjustment sliders to higher or lower the 5 separate frequencies till the sound of the **MAIN OUTPUT'S** is appropriate to your listening environment.

VU METER AND VU MODE SWITCH 20

The **MM-1000** has a dual mode **VU METER** that allows you to monitor the decible levels of the **CUE** and **PGM** or **LEFT** and **RIGHT** stereo levels of the **MASTER** output. When the **VU MODE SWITCH** is set to **CUE** the **VU METER** will display the **CUE/PGM** level or if set to **MASTER** the **VU METER** will display the level of the **MASTER** output.

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