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Pronomic M-602

Pronomic M-602 Live/Studio Mixer Instruction Manual

Model: M-602

1. INTRODUCTION

The Pronomic M-602 is a professional 6-channel mixer designed for versatile audio applications in both live performance and studio environments. It features robust construction, low-noise circuitry for clear audio, and a musical 3-band equalizer on each channel. This manual provides essential information for the safe and effective operation of your M-602 mixer.

2. SAFETY INSTRUCTIONS

Please read and understand these safety instructions before operating the device. Keep this manual for future reference.

- **Power Source:** Only use the provided external power supply. Ensure the voltage matches the requirements specified on the unit.
- **Water and Moisture:** Do not expose the unit to rain, moisture, or any liquids. Do not place objects filled with liquids on the unit.
- **Ventilation:** Ensure adequate ventilation. Do not block ventilation openings.
- **Heat:** Do not place the unit near heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- **Cleaning:** Clean only with a dry cloth.
- **Servicing:** Do not attempt to service this unit yourself. Refer all servicing to qualified service personnel.
- **Cables:** Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Pronomic M-602 Mixer Unit
- External Power Supply
- Instruction Manual (this document)

4. PRODUCT OVERVIEW

The Pronomic M-602 mixer features a compact design with intuitive controls. Below is an illustration of the mixer's layout and a description of its main components.



Figure 1: Top-down view of the Pronomic M-602 mixer, illustrating the layout of all controls and input/output jacks. This image displays the two mono channels with XLR/jack inputs, two stereo channels with jack inputs, the main section with CD/Tape I/O, and various output options.

4.1 Input/Output Panel (Top Rear)

- **MIC Inputs (XLR):** Balanced inputs for microphones.
- **LINE Inputs (1/4" Jack):** Balanced/unbalanced inputs for line-level instruments or devices.
- **STEREO AUX RETURN (1/4" Jack):** Inputs for external effects processors.
- **MAIN OUT (1/4" Jack):** Main stereo output to amplifiers or recording devices.

- **CTRL ROOM OUT (1/4" Jack):** Output for control room monitors.
- **FX SEND (1/4" Jack):** Output to send signal to external effects processors.
- **PHONES (1/4" Jack):** Headphone output.

4.2 Channel Controls

Each channel (2 mono, 2 stereo) features the following controls:

- **TRIM (Mono Channels):** Adjusts the input gain for microphones and line inputs (max. +60 dB).
- **EQ (High, Mid, Low):** 3-band equalizer for tone shaping (High: 12 kHz, Mid: 2.5 kHz, Low: 80 Hz).
- **FX:** Controls the amount of signal sent to the FX Send output (post-fader).
- **PAN (Mono Channels) / BAL (Stereo Channels):** Adjusts the stereo position of the channel.
- **CLIP LED:** Illuminates when the input signal is too high, indicating potential clipping.
- **LEVEL:** Adjusts the overall output level of the channel to the main mix.

4.3 Main Section Controls

- **CD/TAPE IN/OUT (RCA):** Stereo RCA inputs/outputs for connecting CD players, tape decks, or other stereo devices. Assignable to Mix and Phones/CTRL.
- **PHANTOM +48V Switch:** Activates +48V phantom power for condenser microphones. An LED indicates activation.
- **PHONES/CTRL Knob:** Adjusts the level for the headphone and control room outputs.
- **MAIN MIX Knob:** Adjusts the overall output level of the main stereo mix.
- **AUX RETURN Knob:** Adjusts the level of the signal returning from external effects processors.
- **LEVEL METER (LED):** 4-segment LED display showing the main mix output level.
- **POWER LED:** Indicates the unit is powered on.



Figure 2: Angled view of the Pronomic M-602 mixer, providing a clearer perspective of the control knobs and their ergonomic, color-coded design for intuitive operation.

5. SETUP

Follow these steps for initial setup:

1. **Power Connection:** Connect the external power supply to the mixer's power input and then to a suitable power outlet. Ensure the mixer is switched off before connecting.
2. **Output Connection:** Connect the MAIN OUT jacks to your amplifier, powered speakers, or recording interface. For monitoring, connect your headphones to the PHONES jack or control room monitors to the CTRL ROOM OUT jacks.
3. **Input Connection:**
 - For microphones, connect via the XLR inputs. If using condenser microphones, ensure the +48V PHANTOM power is activated (see Operating section).
 - For line-level instruments (keyboards, guitars with preamps) or other audio devices, connect via the 1/4" LINE inputs.
 - For stereo playback devices (CD player, smartphone), use the CD/TAPE IN RCA jacks.
4. **Initial Settings:** Before powering on, set all LEVEL, TRIM, EQ, FX, PAN/BAL, MAIN MIX, PHONES/CTRL, and AUX RETURN knobs to their minimum (fully counter-clockwise) positions.



Figure 3: The external power supply unit for the Pronomic M-602 mixer, featuring the power brick and its attached cables, essential for powering the device.

6. OPERATING

6.1 Powering On/Off

After all connections are made and initial settings are at minimum, power on your amplifier/speakers first, then the M-602 mixer. To power off, reverse the order: mixer first, then amplifier/speakers.

6.2 Adjusting Input Levels

1. **TRIM (Mono Channels):** For mono channels, gradually increase the TRIM knob until the CLIP LED flashes only occasionally during the loudest parts of the input signal. Then, slightly reduce TRIM until the LED no longer flashes.
2. **Channel LEVEL:** Slowly raise the LEVEL knob for the active channel to send its signal to the main mix.
3. **MAIN MIX:** Gradually increase the MAIN MIX knob to set the overall output volume. Monitor the LED level meter to avoid clipping (red LEDs).

6.3 Using the Equalizer (EQ)

Each channel has a 3-band EQ (High, Mid, Low). The center position is flat (no boost or cut). Turn clockwise to boost frequencies, counter-clockwise to cut them. Experiment to achieve the desired tone for each input.

6.4 Phantom Power (+48V)

If using condenser microphones, press the +48V PHANTOM switch. The corresponding LED will illuminate. Ensure dynamic microphones are not connected when phantom power is active, as this can cause damage to some dynamic microphones.

6.5 FX Send/Return

To use an external effects processor:

1. Connect the FX SEND jack to the input of your effects processor.
2. Connect the output of your effects processor to the STEREO AUX RETURN jacks.
3. Use the FX knob on each channel to send signal to the processor.
4. Use the AUX RETURN knob in the main section to control the overall level of the returned effect signal in the mix.

6.6 Monitoring

Adjust the PHONES/CTRL knob to set the listening volume for your headphones or control room monitors.

7. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your mixer.

- **Cleaning:** Disconnect the power supply before cleaning. Use a soft, dry cloth to wipe the surface of the mixer. Do not use liquid cleaners, solvents, or abrasive materials.
- **Storage:** When not in use for extended periods, store the mixer in a dry, dust-free environment.
- **Cable Care:** Avoid bending or kinking cables excessively. Store cables neatly to prevent damage.

8. TROUBLESHOOTING

If you encounter issues, consult this section before contacting support.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No sound output	<ul style="list-style-type: none"> Power not connected or switched off. MAIN MIX knob is at minimum. Channel LEVEL knob is at minimum. Output cables are faulty or incorrectly connected. Amplifier/speakers are off or muted. 	<ul style="list-style-type: none"> Check power connection and switch. Increase MAIN MIX knob. Increase relevant channel LEVEL knob. Verify all output cable connections and test cables. Ensure amplifier/speakers are on and unmuted.
Distorted sound	<ul style="list-style-type: none"> Input signal too high (clipping). MAIN MIX or channel LEVEL too high. Connected amplifier/speakers are clipping. 	<ul style="list-style-type: none"> Reduce TRIM for mono channels until CLIP LED no longer flashes. Reduce channel LEVEL and/or MAIN MIX. Check input levels on connected amplifier/speakers.
Hum or noise	<ul style="list-style-type: none"> Ground loop issue. Faulty cables. Interference from other electronic devices. 	<ul style="list-style-type: none"> Try connecting all audio equipment to the same power outlet. Test with different cables. Move the mixer away from power supplies, computers, or other noise-emitting devices.
Phantom power not working	<ul style="list-style-type: none"> +48V PHANTOM switch not engaged. Faulty microphone or cable. 	<ul style="list-style-type: none"> Ensure the +48V PHANTOM switch is pressed and its LED is lit. Test with a different condenser microphone and XLR cable.

9. SPECIFICATIONS

Feature	Detail
Model	M-602
Channels	6 (2 Mono XLR/Jack, 2 Stereo Jack)
EQ	3-band (Low 80 Hz, Mid 2.5 kHz, High 12 kHz) per channel
Phantom Power	+48V, switchable
Input Gain (Mono)	Trim control (max. +60 dB)

Feature	Detail
Connectivity	XLR, 1/4" Jack, RCA (CD/Tape In/Out)
Outputs	Main Out (1/4" Jack), Ctrl Room Out (1/4" Jack), FX Send (1/4" Jack), Phones (1/4" Jack)
Dimensions (L x W x H)	24 x 19 x 24 cm (approx. 9.4 x 7.5 x 9.4 inches)
Weight	1.3 kg (approx. 2.87 lbs)
Power Supply	External AC adapter

10. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided at the time of purchase or contact your retailer. For technical support or service inquiries, please contact Pronomic customer service through their official website or your local distributor.