



# Instruction Kit

**GT 60C**  
**GT 125C**



## MIXER AMPLIFIER

**GROMMES-PRECISION**  
**1-800-SINCE-46**  
**[www.grommesprecision.com](http://www.grommesprecision.com)**

*Thank you for purchasing from Grommes~Precision!*

*Grommes~Precision and its commercial audio division, Precision Electronics, has been designing, engineering, and manufacturing quality sound equipment in the United States since it started operation in March of 1946. Over a half a century of quality, service, and flexibility as “Your Personal Manufacturer” have made us one of the last American audio manufacturers. If you have any questions with this or any one of our other fine products, give us a call. When you talk with a member of the Grommes~Precision team you’ll be speaking with someone who had a hand in concept, design, production, or testing of this very product.*

### **INSPECTION**

This unit was carefully checked and packed before leaving the factory. However, it is always a good idea to inspect the shipping container and unit for indication of improper handling. If the unit has been damaged, make an immediate claim to the dealer or distributor from whom it was purchased. If the unit was shipped to you, notify the transportation company without delay, saving all packing materials, in order to process the claim.

### **INITIAL PERFORMANCE CHECK**

Continue the inspection by running a performance check. Connect a test speaker to the 4-8 ohm direct output terminals (see page 6) and a tuner, tape deck, or CD player to the auxiliary input and set the controls for operation. CAUTION: TO PROTECT THE SPEAKER FROM DAMAGE, DO NOT TURN THE UNIT ON UNTIL ALL CONNECTIONS HAVE BEEN MADE. IN ADDITION, MAKE SURE THE UNIT IS GROUNDED BEFORE TESTING. If the unit should be inoperable and no damage is noted, please notify the factory at 1-847-599-1799 and ask for Technical Support.

### **RACK MOUNTING**

For best results use a 10-32 class UNF-2B or 12-24 class UNC-2B rack and 0.625 inch machine screws (metric: M5X8-6H or M6X1-6H, 15.88mm). It is recommended that the drive of these screws be phillips in order to protect the finish from unnecessary scratches. Also recommended are nylon or plastic washers which will not only help protect the finish but also aid in retaining the screws.

### **CONVECTION, FAN COOLING, AND VENTILATION**

This unit is cooled via convection and therefore designed for continuous operation. Do not block the unit’s heatsink fins or vent holes located in the cover. If the unit will be rack mounted, you must utilize a cooling fan that is capable of exhausting not less than 300CFM. The fan must be mounted to the inside top of the rack, above the amplifier.

## TECHNICAL SUPPORT

A troubleshooting chart is located at the end of this manual for your convenience. If you are in need of further assistance, you can reach our design engineers at 1-847-599-1799. Grommes-Precision is based in Gurnee, Illinois and is on Central Standard Time. Our hours of operation are Monday - Friday from 7:00am to 3:30pm. Troubleshooting information can also be found at our website [www.grommesprecision.com](http://www.grommesprecision.com).

## GENERAL INSTALLATION

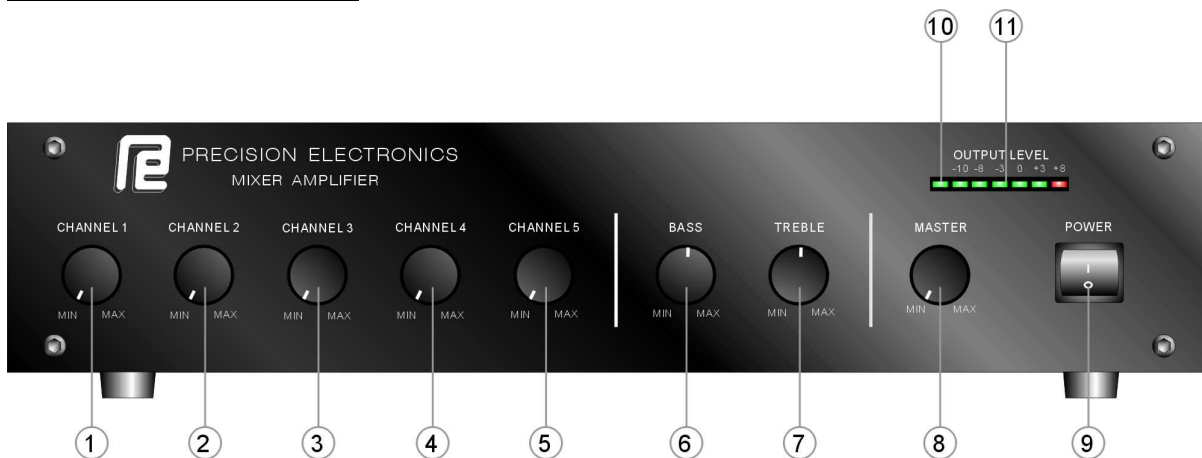
DO NOT run microphone cables near A/C lines, data, telephone or 70V line cables.

DO NOT run outputs line cable near data, telephone or other low voltage cables.

ENSURE that all loudspeakers are in-phase.

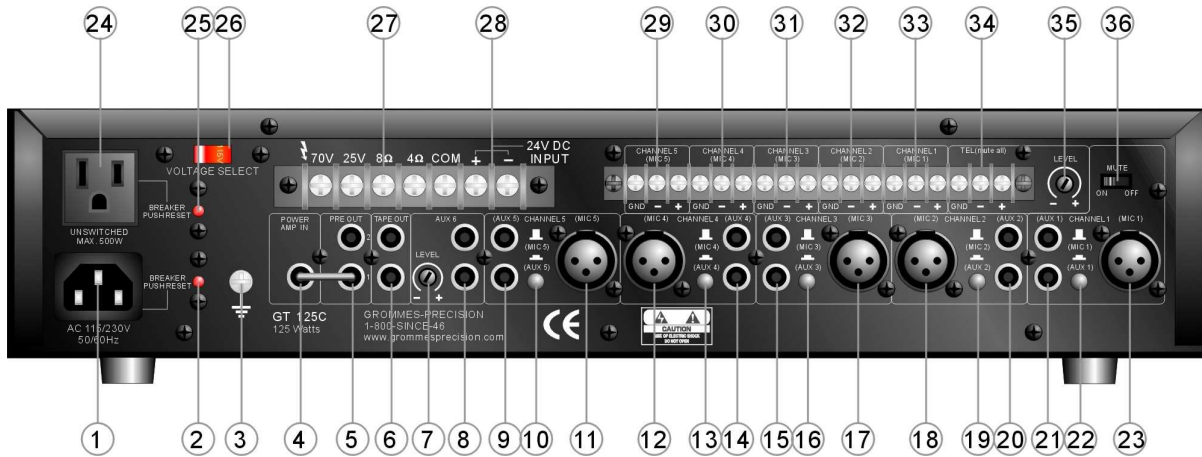
ENSURE that there are no short circuits on the loudspeaker line before connecting to the amplifier.

## FRONT PANEL DESCRIPTION



- |                             |   |
|-----------------------------|---|
| 1. Channel 1 Volume Control | 7. Treble Control   |
| 2. Channel 2 Volume Control | 8. Master Volume Control – Volume control for entire system |
| 3. Channel 3 Volume Control | 9. Power Switch   |
| 4. Channel 4 Volume Control | 10. Power Indicator - LED                                   |
| 5. Channel 5 Volume Control | 11. Output Level Indicator LED                              |
| 6. Bass Control             |   |

## REAR PANEL DESCRIPTION



- |  |   |
|--|---|
| <ol style="list-style-type: none"> <li>1. IEC Socket – Used for A/C Line Interconnect</li> <li>2. Circuit Breaker – For Amplifier</li> <li>3. Earth Ground Connection Screw</li> <li>4. Power Amplifier Input (RCA Jack)</li> <li>5. Pre Output (RCA Jack)</li> <li>6. Tape Output (RCA Jack)</li> <li>7. Aux 6 Level Control</li> <li>8. Aux 6 Input (RCA Jack)</li> <li>9. Aux 5 Input (RCA Jack)</li> <li>10. MIC 5/Aux 5 Selector Switch*</li> <li>11. MIC 5 Input (XLR Jack)</li> <li>12. MIC 4 Input (XLR Jack)</li> <li>13. MIC 4/Aux 4 Selector Switch*</li> <li>14. Aux 4 Input (RCA Jack)</li> <li>15. Aux 3 Input (RCA Jack)</li> <li>16. MIC 3/Aux 3 Selector Switch*</li> <li>17. MIC 3 Input (XLR Jack)</li> <li>18. MIC 2 Input (XLR Jack)</li> </ol> | <ol style="list-style-type: none"> <li>19. MIC 2/Aux 2 Selector Switch*</li> <li>20. Aux 2 Input (RCA Jack)</li> <li>21. Aux 1 Input (RCA Jack)</li> <li>22. MIC 1/Aux 1 Selector Switch*</li> <li>23. MIC 1 Input (XLR Jack)</li> <li>24. Convenience Outlet</li> <li>25. Circuit Breaker – For Convenience Outlet</li> <li>26. Supply Voltage (115V/230V) Selector Switch</li> <li>27. Speaker Output Terminals</li> <li>28. DC Power Supply Terminals</li> <li>29. MIC 5 Input (Screw Terminals)</li> <li>30. MIC 4 Input (Screw Terminals)</li> <li>31. MIC 3 Input (Screw Terminals)</li> <li>32. MIC 2 Input (Screw Terminals)</li> <li>33. MIC 1 Input (Screw Terminals)</li> <li>34. Tel Page Input (Screw Terminals)</li> <li>35. Tel Page Level Control</li> <li>36. MIC 1 Mute Switch – Mute On enables mute of Chl. 1 over Chls. 3-6</li> </ol> |
|--|---|

\* Switch selects between RCA Line inputs and Microphone level, either screw or XLR input.

## **POWER SOURCE**

### **VAC**

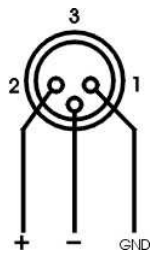
The supply transformer has been designed for use on either 115V or 230V, 50-60Hz, selected by slide a switch on rear panel. The amplifier is factory set at 115V.

### **Battery Connection (24Vdc)**

When using external DC source, ground the amplifier via the screw terminal. (Electrical stability of the system will be increased by providing a good earth ground.) NOTE: The connection to the unit must be fitted with an in-line fuse. [Quick blow type 8A.] Please ensure correct polarity.

## **MICROPHONE CONNECTION**

Mic1~5 inputs are balanced standard XLR Jack and screw terminal, rear panel.



## **MUTING**

The TEL input has voice activated (VOX priority) muting over, CH1~CH5 and AUX 6.

Microphone 1 input has VOX priority over CH 3~6 and Line input signals but does NOT mute Channel 2 input.

## **LINE (AUX) CONNECTION**

The equipment provides an auxiliary input which may be used for connecting other signal sources such as a Radio Tuner, CD, or Cassette player. A switch is located on the rear panel for selection of, Mic1→Aux1, Mic2→Aux2, etc. The Aux input is a dual RCA phono jack and has a stereo to mono converter for each channel.

RCA Phono plug connection



## **TAPE OUTPUT CONNECTION**

These RCA /phono jacks provide a mixed output suitable for connection to a tape or cassette recorder.

### **PRE OUT / AUX OUT**

This horseshoe jumper “U” connects the mixer-preamplifier stage to the power amplifier stage. The connecting link must be plugged in for normal operation as a mixer-amplifier. “PRE OUT” is after the tone controls and the master volume control.

### **POWER AMP IN**

The power amp input is not controlled by the master volume and tone controls, when the RCA plug “U” jumper has been taken out.

### ***Connecting the Mixer Amplifier to a Power Amplifier or other Accessory equipment:***

This amplifier can be connected to accessory equipment by using phono to phono leads from the mixer amplifier “PRE OUT (1)” to the accessory gear and back to the “POWER AMP IN” RCA jack. Further, more power amplifier can be obtained by connecting from the “PRE OUT (2)” output to another power amplifier. Under normal conditions, up to three power amplifier can be connected in this way.

### **LOUDSPEAKER CONNECTION**

Use only 70V or 25V Line Loudspeakers and connect to the appropriately marked screw terminal on the output strip.

### **LOW IMPEDANCE 8Ω or (4Ω):**

This output allows connection of standard low impedance loudspeakers, the minimum load impedance must be 8Ω or (4Ω), when two or more loudspeakers are in use ensure that they are wired in such a way that the load impedance is between 4Ω and 16Ω.

### **Series GT 60 and GT125 Technical Specifications**

Type	Mixer Amplifier	
Model	GT 60C	GT 125C
Supply	Mains Voltage	AC 115V/ 230V, 50 / 60Hz ± 10% Switchable
	Battery Voltage	DC 24V (MAX 10% deviation)
Output power Rated:	60W	125W
Output	Speaker outputs: 4Ω, 8Ω, 25V, 70V Tape output: 1V, 4.7KΩ Pre output: 1V, 600Ω Power outline, 5A/115V (comply with IEC input)	
Inputs	Mic 1~5: 1mV, 600Ω balanced Aux 1~6: 150mV, dual RCA – stereo to mono converted 22K TEL 150mV, 600Ω balanced Power amp in: 1V	

Frequency response	Mic 1~Mic 5: 60Hz ~ 15KHz ± 3dB Aux 1~ 6: 50Hz ~ 20KHz ± 3dB TEL: 50Hz ~ 15KHz ± 3Db Power amp in: 50Hz~15KHz± 3Db	
Total harmonic distortion	Less than 1% at 1KHz, rated power	
Signal to noise ratio	Mic 1~ 5: 60dB below rated power Aux 1-5: 60dB below rated power Aux 6: 80dB below rated power	
Tone Controls	Bass: ± 10dB at 100Hz Treble: ± 10dB at 10KHz	
Controls	Channel1~5 volume control Aux 6 volume control Master volume control Tone controls (Bass, Treble) TEL volume control Mute slide switch Mic 1/Aux 1 push switch Mic 2/Aux 2 push switch Mic 3/Aux 3 push switch Mic 4/Aux 4 push switch Mic 5/Aux 5 push switch AC 115V / 230V voltage Selector switch	
Indicators	Power indicator (LED), output level indicators (3 LEDS)	
AC power consumption	150W	300W
DC power consumption	5A	8A
Phantom power	Factory set 16V Defeat-able via internal jumpers.	
Priority	Priority level (Using for Mic1 ~ 4, the 5 pole PHONE connector) TEL can mute all channel Channel 1 can mute Channel 3 ~5, Aux 3~6	
Dimensions ( H x W x D )mm	17"W x 3.5"H x 13.5"D	
Weight	17LBS	19LBS
Color	Black	
Mounting options	Table top or 19" rack mountable / Rack Mount Ears Included	

**IMPORTANT**

The wires in the mains lead are colored  
In accordance with the following code:

Green and Yellow: Earth (E)

Blue: Neutral (N)

Brown: Live (L)

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

The wire which is colored green and yellow must be connected to the terminal which is marked with the letter N or colored black. The wire which is marked with the letter L or colored red.

If a 13 Amp (B.S.1363) plug or any other type of plug is used, a 5 Amp fuse must be fitted either in the plug or at the distribution board.

**WARNING: THIS UNIT MUST BE EARTH GROUNDED**

