

Planet Audio TT2200

Planet Audio TT2200 2-Channel Mosfet Power Amplifier User Manual

Model: TT2200

INTRODUCTION

This manual provides comprehensive instructions for the proper installation, operation, and maintenance of your Planet Audio TT2200 2-Channel Mosfet Power Amplifier. To ensure optimal performance and safety, please read this manual thoroughly before using the product and retain it for future reference.

IMPORTANT SAFETY INFORMATION

- Always disconnect the vehicle's battery negative terminal before making any electrical connections.
- Ensure all wiring is properly routed and secured to prevent damage or short circuits.
- Use appropriate gauge power and ground wires as specified in the installation section.
- Install the amplifier in a location that allows for adequate ventilation to prevent overheating.
- Avoid installing the amplifier in areas exposed to moisture or direct sunlight.
- Do not attempt to open or modify the amplifier. Refer all servicing to qualified personnel.

PRODUCT OVERVIEW

The Planet Audio TT2200 is a 2-channel Mosfet power amplifier designed to deliver robust audio performance. It features variable low-pass and high-pass crossovers, bass boost, and phase shift controls for precise sound tuning. Its robust design ensures reliable operation in various audio setups.



An image showing the top view of the Planet Audio TT2200 amplifier, featuring its silver casing and ventilation grilles, indicating a design focused on heat dissipation.

SETUP AND INSTALLATION

Unpacking

- Carefully remove the amplifier from its packaging.
- Inspect the amplifier for any signs of damage that may have occurred during shipping. If damage is found, contact your dealer immediately.
- Ensure all accessories (if any) are present.

Wiring Connections

Proper wiring is crucial for the amplifier's performance and safety. Always use high-quality wiring and connectors.

- **Power (BATT+):** Connect a heavy-gauge wire (e.g., 8-gauge or larger, depending on total system power) directly from the positive terminal of the vehicle's battery to the amplifier's BATT+ terminal. Install an in-line fuse holder within 18 inches (45 cm) of the battery.
- **Ground (GND):** Connect a heavy-gauge wire of the same size as the power wire from the amplifier's GND terminal to a clean, unpainted metal surface of the vehicle's chassis. Ensure a solid electrical connection.
- **Remote (REM):** Connect a smaller gauge wire (e.g., 18-gauge) from the amplifier's REM terminal to the remote turn-on output of your head unit. This wire signals the amplifier to turn on and off with your audio system.
- **Speaker Outputs:** Connect your speakers to the amplifier's speaker output terminals. Observe correct polarity (+ to + and - to -) for each speaker. The TT2200 supports 2-channel stereo operation or bridged mono operation.
- **RCA Inputs:** Connect RCA cables from the pre-amp outputs of your head unit to the amplifier's RCA input jacks.
- **Hi-Level Input:** For head units without RCA outputs, use the provided Hi-Level Input connection. Connect the speaker outputs of your head unit directly to this input.

OPERATION

Initial Power-On

- After all connections are made and verified, reconnect the vehicle's battery negative terminal.
- Turn on your head unit. The amplifier's power indicator should illuminate.
- Start with the amplifier's input sensitivity (gain) control set to minimum.
- Gradually increase the head unit's volume to a moderate level, then slowly increase the amplifier's input sensitivity until the desired volume is achieved without distortion.

Adjusting Settings

- **Variable Low-Pass Crossover (LPF):** Adjust this control (50Hz - 150Hz) to filter out high frequencies from the signal, typically used for subwoofers or mid-bass speakers.
- **Variable High-Pass Crossover (HPF):** Adjust this control (50Hz - 500Hz) to filter out low frequencies, typically used for full-range or component speakers to prevent them from playing bass notes they cannot reproduce effectively.
- **Variable Bass Boost:** This control (0 - 18 dB) allows you to enhance bass frequencies at a specific frequency point. Use sparingly to avoid distortion.

- **Phase Shift:** Adjust this control (0 - 180°) to align the phase of the amplifier's output with other speakers in the system, improving bass response and overall sound clarity.
- **Input Sensitivity:** This control matches the amplifier's input level to the output level of your head unit (0.1V - 8V). Proper adjustment prevents distortion and maximizes dynamic range.

MAINTENANCE

- **Cleaning:** Periodically wipe the amplifier's exterior with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.
- **Ventilation:** Ensure that the amplifier's ventilation grilles are free from dust and obstructions to maintain proper cooling.
- **Connections:** Occasionally check all wiring connections to ensure they are secure and free from corrosion.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No Power / Amplifier does not turn on	Blown fuse, poor power/ground connection, no remote signal.	Check in-line fuse, verify power and ground connections, ensure remote wire is connected and receiving 12V.
No Sound Output	RCA cables disconnected, speaker wires disconnected/shorted, amplifier in protect mode.	Check RCA and speaker connections, ensure speaker wires are not shorted, check for protect light (if illuminated, refer to manual or contact support).
Distorted Sound	Input sensitivity too high, speaker impedance mismatch, damaged speakers.	Reduce input sensitivity (gain), verify speaker impedance matches amplifier's capabilities, inspect speakers for damage.
Amplifier Overheating	Insufficient ventilation, low impedance load, prolonged high-volume use.	Ensure adequate airflow around the amplifier, verify speaker impedance, reduce volume or allow amplifier to cool.

TECHNICAL SPECIFICATIONS




Feature	Value
Channels	2
RMS Power @ 4 Ohm Stereo	2 x 100 Watts
RMS Power @ 2 Ohm Stereo	2 x 200 Watts
RMS Power @ 4 Ohm Mono (Bridged)	1 x 400 Watts
Frequency Response	20Hz - 20kHz
Signal-to-Noise Ratio (S/N)	102dB




Feature	Value
Total Harmonic Distortion (THD)	0.04%
Variable Low-Pass Crossover	50Hz - 150Hz
Variable High-Pass Crossover	50Hz - 500Hz
Variable Bass Boost	0 - 18 dB
Phase Shift	0 - 180°
Input Sensitivity	0.1V - 8V
Dimensions (L x W x H)	375 x 298 x 57 mm
Operating Voltage	8 Volts (Nominal, typical for car audio systems is 12-14.4V)

WARRANTY AND SUPPORT

Planet Audio products are designed and manufactured to the highest quality standards. For specific warranty information, please refer to the warranty card included with your product or visit the official Planet Audio website. For technical support or service inquiries, please contact Planet Audio customer service through their official channels.

Related Documents - TT2200

	<p>Planet Audio PULSE Series Car Audio Amplifier User Manual and Specifications</p> <p>Comprehensive user manual for Planet Audio PULSE MOSFET car audio amplifiers, including models PL2500.1M, PL2000.1M, PL1500.1M, PL3000.2, PL1600.2, PL1200.2, PL2400.4, and PL1600.4. This guide covers features, installation procedures, detailed wiring diagrams, troubleshooting tips, and complete technical specifications for optimal car audio system setup and performance.</p>
	<p>Planet Audio PULSE MOSFET Car Audio Amplifier User Manual & Specifications</p> <p>Explore the Planet Audio PULSE MOSFET Car Audio Amplifier User Manual, covering models PL2500.1M, PL2000.1M, PL1500.1M, PL3000.2, PL1600.2, PL1200.2, PL2400.4, and PL1600.4. This comprehensive guide provides detailed features, installation instructions, wiring diagrams for low-level, high-level, power, and speaker connections, troubleshooting tips, and full product specifications for optimal car audio performance.</p>
	<p>Planet Audio PULSE MOSFET Car Audio Amplifier User Manual & Specifications</p> <p>Explore the Planet Audio PULSE MOSFET Car Audio Amplifier User Manual, covering PL2500.1M, PL2000.1M, PL1500.1M, PL3000.2, PL1600.2, PL1200.2, PL2400.4, and PL1600.4 models. This guide provides detailed features, installation instructions, wiring diagrams for 2-channel, 4-channel, and monoblock configurations, troubleshooting tips, and comprehensive product specifications for optimal car audio performance.</p>

	<p>Planet Audio PULSE MOSFET Car Audio Amplifier User Manual</p> <p>Explore the Planet Audio PULSE MOSFET Car Audio Amplifier User Manual, covering models PL2500.1M, PL2000.1M, PL1500.1M, PL3000.2, PL1600.2, PL1200.2, PL2400.4, and PL1600.4. This comprehensive guide provides detailed instructions for installation, wiring (low-level and high-level inputs, power, and speaker connections), features, and troubleshooting. Learn about Class A/B Topology, MOSFET PWM power supply, 2 Ohm stable operation, thermal protection, variable gain controls, bass boost, and more for optimal car audio performance.</p>
	<p>Planet Audio PULSE MOSFET Power Amplifier User's Manual</p> <p>Explore the Planet Audio PULSE MOSFET Power Amplifier User's Manual, covering models PL2500.1M, PL2000.1M, PL1500.1M, PL3000.2, PL1600.2, PL1200.2, PL2400.4, and PL1600.4. This comprehensive guide provides detailed instructions for installation, wiring, operation, and troubleshooting of 2-channel, 4-channel, and monoblock car audio amplifiers, ensuring optimal performance and longevity.</p>
	<p>Planet Audio P9630B User Manual: In-Dash Double-DIN DVD/MP3 AM/FM Receiver</p> <p>Comprehensive user manual for the Planet Audio P9630B In-Dash Double-DIN DVD/MP3 AM/FM Receiver. Covers installation, operation, features like Bluetooth, USB/SD playback, DVD/CD playback, settings, troubleshooting, and specifications.</p>