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Lanzar HTG668BT

Lanzar HTG668BT 6-Channel Mosfet Amplifier User Manual

Model: HTG668BT

1. INTRODUCTION

Thank you for purchasing the Lanzar HTG668BT 6-Channel Mosfet Amplifier. This amplifier is designed to provide high-quality audio performance for your vehicle's sound system, featuring a wireless Bluetooth audio interface for convenient streaming. Please read this manual thoroughly before installation and operation to ensure proper use and to maximize the performance and longevity of your amplifier.



2. SAFETY INSTRUCTIONS

Always observe the following safety precautions during installation and operation:

- **Professional Installation Recommended:** Installation of car audio components requires experience with electrical wiring and automotive procedures. If you are unsure, consult a qualified professional.
- **Disconnect Battery:** Before starting any wiring, disconnect the vehicle's negative battery terminal to prevent electrical shorts and damage.
- **Proper Wiring:** Ensure all wiring is correctly connected, insulated, and secured to prevent shorts, overheating, and potential fire hazards. Use appropriate gauge wires for power and ground connections.
- **Ventilation:** Install the amplifier in a location that allows for adequate air circulation to prevent overheating. Avoid mounting in enclosed spaces without ventilation.
- **Fuse Protection:** Always use the correct fuse rating as specified. Never replace a fuse with one of a higher amperage.
- **Avoid Moisture:** Do not expose the amplifier to moisture or water.
- **Volume Control:** Prolonged exposure to high volume levels can cause hearing damage. Adjust volume to a safe level.

3. PRODUCT FEATURES

The Lanzar HTG668BT amplifier incorporates advanced technology for superior audio performance and user convenience:

- **6-Channel Mosfet Amplifier:** Delivers powerful and efficient audio output.
- **Wireless Bluetooth Audio Interface:** Allows for wireless audio streaming from compatible devices.
- **Power Output:** 6 x 250W RMS @ 4 ohms, 6 x 350W RMS @ 2 ohms, 3 x 1000W Max @ 4 ohms bridged, 6 x 500W Max @ 4 ohms.
- **Bass Boost Circuit:** Enhances low-frequency response.
- **Bridgeable at 4 Ohms:** Provides flexibility for various speaker configurations.
- **2 Ohm Stereo Stable:** Ensures stable operation with low impedance loads.
- **Chrome RCA Inputs:** High-quality input connections.
- **Stereo Line Outputs:** For connecting additional amplifiers.
- **Low Pass Filter (LPF) Controls:** Adjustable from 40Hz-250Hz.
- **High Pass Filter (HPF) Controls:** Adjustable from 40Hz-250Hz.
- **Band Pass Filter (BPF) Controls:** Adjustable from 40Hz-3KHz.
- **Power and Protection LED Indicators:** Visual status feedback.
- **Soft Turn-On/Turn-Off:** Prevents pops and thumps during power transitions.
- **Protection Circuitry:** Includes thermal, overload, and speaker-short protection.

4. PACKAGE CONTENTS

Verify that all items are present in the package:

- Lanzar HTG668BT 6-Channel Mosfet Amplifier
- Quick Start Guide

5. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance. Ensure the vehicle's battery is disconnected before proceeding.

5.1 Mounting the Amplifier

Choose a mounting location that provides adequate ventilation and is protected from moisture. Secure the amplifier firmly to a solid surface using appropriate hardware.



Image 5.1: Example of amplifier installation in a vehicle trunk.

5.2 Wiring Connections

Refer to the diagrams below for proper wiring of power, ground, remote, RCA inputs, and speaker outputs.



Image 5.2: Rear panel connections for power, ground, remote, and speaker outputs.

- **Power (BATT+):** Connect to the positive terminal of the car battery using a heavy-gauge power cable (e.g., 4-gauge or larger, depending on total power draw) with an inline fuse located within 18 inches of the battery.
- **Ground (GND):** Connect to a clean, unpainted metal surface of the vehicle chassis. Ensure a solid, low-resistance connection. Use a cable of the same gauge as the power cable.
- **Remote (REM):** Connect to the remote turn-on output of your head unit. This wire turns the amplifier on and off with your car's audio system.
- **RCA Inputs:** Connect RCA cables from your head unit's pre-amp outputs to the amplifier's RCA input jacks. The HTG668BT features chrome RCA inputs.
- **Speaker Outputs:** Connect your speakers to the amplifier's speaker terminals. Observe correct polarity (+/-) for each speaker. The amplifier supports 2 Ohm stereo stable operation and can be bridged at 4 ohms.



Image 5.3: Front panel controls for RCA inputs, gain, and filter adjustments.

6. OPERATING INSTRUCTIONS

6.1 Powering On/Off

The amplifier will power on automatically when the remote turn-on lead receives a signal from your head unit. The 'PWR' LED indicator will illuminate. The amplifier features a soft turn-on/turn-off circuit to prevent audible pops.

6.2 Bluetooth Audio Streaming

To stream audio wirelessly:

1. Ensure the amplifier is powered on.
2. Activate Bluetooth on your mobile device (smartphone, tablet, etc.).
3. Search for available Bluetooth devices and select 'Lanzar HTG668BT' (or similar name) to pair.
4. Once paired, you can stream audio directly to the amplifier.

6.3 Adjusting Audio Settings

Use the controls on the amplifier's front panel (refer to Image 5.3) to fine-tune your audio:

- **Gain Controls:** Adjust the input sensitivity to match the output level of your head unit. Start with the gain at minimum and slowly increase until desired volume is achieved without distortion.
- **Low Pass Filter (LPF):** Use this filter to allow only frequencies below the set point to pass through, typically used for subwoofers. Adjustable from 40Hz-250Hz.

- **High Pass Filter (HPF):** Use this filter to allow only frequencies above the set point to pass through, typically used for full-range speakers. Adjustable from 40Hz-250Hz.
- **Band Pass Filter (BPF):** Allows a specific range of frequencies to pass through. Adjustable from 40Hz-3KHz.
- **Bass Boost:** Adjust to enhance low-frequency output. Use sparingly to avoid distortion.

6.4 Bridging Channels

The HTG668BT amplifier can be bridged at 4 ohms to combine two channels into one, providing higher power output for a single speaker, such as a subwoofer. Refer to the wiring diagram on the amplifier or in the quick start guide for specific bridging instructions. Ensure the speaker connected to a bridged channel has a minimum impedance of 4 ohms.

7. MAINTENANCE

Regular maintenance helps ensure the longevity and performance of your amplifier:

- **Cleaning:** Periodically wipe the amplifier's exterior with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.
- **Check Connections:** Annually inspect all power, ground, remote, and speaker connections to ensure they are secure and free from corrosion. Loose connections can cause performance issues or damage.
- **Ventilation:** Ensure the amplifier's cooling fins are free from dust and debris to maintain proper heat dissipation.

8. TROUBLESHOOTING

If you experience issues with your amplifier, consult the following troubleshooting guide:

Problem	Possible Cause	Solution
No Power (PWR LED off)	Blown fuse, loose power/ground/remote wire, no remote signal.	Check inline fuse and amplifier fuses. Verify all power, ground, and remote connections are secure. Test remote wire for 12V signal.
Amplifier in Protection Mode (PRT LED on)	Overheating, speaker short circuit, low impedance load, DC offset.	Allow amplifier to cool. Check speaker wiring for shorts. Verify speaker impedance is within specifications (2 Ohm stereo stable, 4 Ohm bridged). Disconnect speakers and RCA inputs to isolate the issue.
No Sound Output	No input signal, incorrect gain setting, speaker wires disconnected, amplifier in protection.	Check RCA input connections. Adjust gain. Verify speaker connections. Refer to 'Amplifier in Protection Mode' solution.
Distorted Sound	Gain set too high, improper filter settings, poor ground connection, damaged speakers.	Reduce gain. Adjust LPF/HPF/BPF settings. Ensure ground connection is solid. Test speakers with another amplifier if possible.
Bluetooth Connection Issues	Device not in pairing mode, interference, amplifier not discoverable.	Ensure amplifier is on and Bluetooth is enabled on your device. Try restarting both devices. Move closer to the amplifier.

9. SPECIFICATIONS

Technical specifications for the Lanzar HTG668BT 6-Channel Mosfet Amplifier:

- **Channels:** 6
- **RMS Power @ 4 Ohms:** 6 x 250W
- **RMS Power @ 2 Ohms:** 6 x 350W
- **Max Power @ 4 Ohms Bridged:** 3 x 1000W
- **Max Power @ 4 Ohms:** 6 x 500W
- **Minimum Impedance:** 2 Ohm Stereo Stable
- **Low Pass Filter (LPF) Frequency Response:** 40Hz-250Hz
- **High Pass Filter (HPF) Frequency Response:** 40Hz-250Hz
- **Band Pass Filter (BPF) Frequency Response:** 40Hz-3KHz
- **Total Harmonic Distortion (THD):** <0.04%
- **Signal-to-Noise Ratio (S/N):** >90dB
- **Channel Separation:** >65dB
- **Frequency Response:** 10Hz-45KHz
- **Fuses:** 3 x 25A
- **Dimensions (L x H x W):** 19.29" x 2.24" x 8.81" (49cm x 5.7cm x 22.4cm)
- **Item Weight:** 10.28 pounds (4.66 kg)
- **Voltage:** 0.2 Volts (Input Sensitivity)
- **Mounting Type:** Surface Mount

10. WARRANTY AND SUPPORT

Lanzar 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 Lanzar website. If you require technical assistance or have questions regarding your amplifier, please contact Lanzar customer support through their official channels.