

## Powerbass GTX 5000

# Powerbass GTX 5000 5-Channel Car Amplifier User Manual

Model: GTX 5000

## 1. INTRODUCTION

This manual provides essential instructions for the proper installation, operation, and maintenance of your Powerbass GTX 5000 5-Channel Car Amplifier. Please read this manual thoroughly before attempting installation or operation to ensure optimal performance and safety.

The Powerbass GTX 5000 is a high-performance 5-channel amplifier designed for car audio systems, capable of powering a variety of speakers including component speakers, coaxial speakers, and SVC subwoofers (4 Ohm).

## 2. SAFETY INFORMATION

### **WARNING:**

- Always disconnect the vehicle's battery negative terminal before starting any installation.
- Ensure all wiring is properly routed and secured to prevent damage or short circuits.
- Do not install the amplifier in locations exposed to direct sunlight, excessive heat, moisture, or dust.
- Use appropriate gauge power and ground wires as specified in the installation section.
- Consult a professional car audio installer if you are unsure about any part of the installation process.
- Operating the amplifier at excessively high volumes for extended periods can cause hearing damage.

## 3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x Powerbass 5-Channel Amplifier (GTX 5000)
- 1 x Owner's Manual

## 4. SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of your amplifier. Follow these steps carefully.

#### 4.1 Mounting the Amplifier

Choose a secure, well-ventilated location for mounting the amplifier. Avoid mounting it directly on carpet or in enclosed spaces that restrict airflow. Ensure there is sufficient space around the amplifier for proper heat dissipation.

#### 4.2 Wiring Connections Overview

The amplifier features connections for power, ground, remote turn-on, RCA audio inputs, and speaker outputs. Refer to the diagram below for a visual guide to the connection terminals.



*Image: Side view of the Powerbass GTX 5000 amplifier, highlighting the input and output terminals, as well as control knobs for gain and crossover settings.*

#### 4.3 Power and Ground Connections

- **Power (BATT+):** Connect a heavy-gauge power cable (e.g., 4-gauge or larger, depending on total system power) directly from the positive terminal of the vehicle's battery to the BATT+ terminal on the amplifier. Install an in-line fuse holder with an appropriate fuse (not supplied) within 18 inches (45 cm) of the battery.
- **Ground (GND):** Connect a heavy-gauge ground cable of the same length as the power cable from the GND terminal on the amplifier to a clean, unpainted metal surface on the vehicle's chassis. Ensure a good electrical connection.
- **Remote (REM):** Connect a remote turn-on wire (e.g., 18-gauge) from your head unit's remote output to the REM terminal on the amplifier. This wire turns the amplifier on and off with your head unit.

## 4.4 Audio Input Connections (RCA)

Connect RCA cables from your head unit's pre-amp outputs to the corresponding RCA input jacks on the amplifier. Ensure correct channel matching (Front L/R, Rear L/R, Subwoofer).

## 4.5 Speaker Output Connections

Connect your speakers to the amplifier's speaker terminals. The GTX 5000 is a 5-channel amplifier:

- **Channels 1-4:** Connect your front and rear full-range speakers. Ensure correct polarity (+ to + and - to -).
- **Channel 5 (Subwoofer):** Connect your SVC subwoofer (4 Ohm) to the dedicated subwoofer output terminals.

## 4.6 Initial Settings

- **Gain Control:** Start with the gain controls set to minimum. Gradually increase them after the system is powered on and playing music, until a clean, undistorted sound is achieved.
- **Crossover Settings:** Adjust the High-Pass Filter (HPF) for channels 1-4 and the Low-Pass Filter (LPF) for channel 5 (subwoofer) according to your speaker specifications and desired sound.

# 5. OPERATING INSTRUCTIONS

Once installed, operating your Powerbass GTX 5000 amplifier is straightforward.

- **Power On/Off:** The amplifier will automatically turn on when your head unit is powered on (via the remote wire) and turn off when the head unit is off.
- **Volume Control:** Adjust the overall system volume using your head unit's volume control.
- **Fine-Tuning:** If necessary, make small adjustments to the gain and crossover settings on the amplifier to optimize sound quality for your specific vehicle and listening preferences. Avoid setting the gain too high, as this can lead to distortion and potential speaker damage.

# 6. MAINTENANCE

The Powerbass GTX 5000 amplifier requires minimal maintenance to ensure long-term performance.

- **Cleaning:** Periodically wipe the amplifier's exterior with a soft, dry cloth to remove dust. Do not use harsh chemicals or abrasive cleaners.
- **Connections:** Occasionally check 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 that the amplifier's cooling fins are not obstructed to allow for proper heat dissipation.

# 7. TROUBLESHOOTING

If you experience problems with your amplifier, refer to the following common issues and solutions before contacting support.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No Power / Amplifier Not Turning On	Blown fuse (in-line or internal) Loose power or ground connection No remote turn-on signal Faulty wiring	Check and replace fuses. Verify all power, ground, and remote connections are secure. Ensure head unit is providing a remote signal. Inspect wiring for breaks or shorts.
No Sound Output	RCA cables disconnected or faulty Speaker wires disconnected or shorted Gain set too low Head unit settings incorrect	Check RCA connections at both amplifier and head unit. Verify speaker wire connections and check for shorts. Increase gain setting gradually. Ensure head unit's output is enabled and volume is up.
Distorted Sound	Gain set too high Improper crossover settings Speaker impedance mismatch Poor ground connection	Reduce gain setting. Adjust HPF/LPF settings. Ensure speakers are compatible with amplifier's impedance. Verify ground connection is clean and secure.
Amplifier Overheating	Insufficient ventilation Speaker impedance too low Sustained high volume operation	Relocate amplifier to a better ventilated area. Check speaker impedance. Reduce volume or operating time.

## 8. SPECIFICATIONS

Key technical specifications for the Powerbass GTX 5000 amplifier:

- **Model:** GTX 5000
- **Channels:** 5-Channel
- **Topology:** Class AB
- **Peak Music Power Output (PMPO):** 16000 Watts
- **RMS Power Output:**
  - Channels 1-4: 4 x 80W RMS
  - Channel 5 (Subwoofer): 1 x 230W RMS
- **Dimensions (L x W x H):** 30 cm x 20 cm x 8 cm (approximately)
- **Recommended Speaker Impedance:** 4 Ohm (for SVC subwoofers on Channel 5)

## 9. WARRANTY AND SUPPORT

For detailed warranty information, please refer to the warranty card included with your product or visit the official Powerbass website. Keep your purchase receipt as proof of purchase for any warranty claims.

If you require technical assistance or have questions not covered in this manual, please contact Powerbass customer support or your authorized dealer.