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› Planet Audio AC2000.2 2-Channel Car Amplifier User Manual

## Planet Audio AC2000.2

# Planet Audio AC2000.2 2-Channel Car Amplifier User Manual

Model: AC2000.2

## INTRODUCTION

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This manual provides detailed instructions for the installation, operation, and maintenance of your Planet Audio AC2000.2 2-Channel Car Amplifier. Please read this manual thoroughly before attempting installation or operation to ensure proper use and to prevent damage to the unit or your vehicle. Retain this manual for future reference.

## SAFETY PRECAUTIONS

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Always observe the following safety guidelines during installation and operation:

- **Professional Installation Recommended:** Due to the complexity of car audio systems, professional installation is strongly recommended.
- **Disconnect Battery:** Before starting any wiring, disconnect the vehicle's negative battery terminal to prevent electrical shorts.
- **Proper Wiring:** Ensure all wiring is correctly connected and insulated to prevent short circuits and electrical hazards. Use appropriate gauge wires for power and ground connections.
- **Ventilation:** Mount the amplifier in a location that allows for adequate air circulation to prevent overheating. Avoid mounting in enclosed spaces without ventilation.
- **Avoid Moisture:** Do not expose the amplifier to moisture or water.
- **Secure Mounting:** Securely mount the amplifier to prevent it from becoming a projectile in the event of a sudden stop or accident.

## PACKAGE CONTENTS

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Verify that all items are present in the package:

- Planet Audio AC2000.2 2-Channel Car Amplifier
- Remote Subwoofer Level Control
- High Input Cable
- Mounting Screws

## KEY FEATURES

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The Planet Audio AC2000.2 amplifier is designed with several features to enhance your car audio experience:

- **Power Output:** 1000 Watts Max x 2 @ 2 Ohms, 500 Watts Max x 2 @ 4 Ohms, 2000 Watts Max Bridged x 1 @ 4 Ohms.
- **Class A/B Topology:** Combines the sound quality of Class A with the efficiency of Class B, providing a balance of performance and power.
- **Full Range Operation:** Capable of driving both speakers and subwoofers.
- **MOSFET Power Supply:** Utilizes MOSFETs for precise control of output voltage and current, enhancing efficiency and stability.
- **Variable High-Pass Crossover:** Allows adjustment of the frequency range for high-frequency speakers, such as mid-ranges and tweeters.
- **Variable Gain Control:** Adjusts the input signal level from your receiver to optimize amplifier performance.
- **Bridgeable:** Allows combining two amplifier channels for increased power output to a single speaker or subwoofer.
- **2 Ohm Stable:** Capable of operating with speaker loads down to 2 ohms, providing flexibility in system design.
- **Variable Bass Boost:** Provides adjustable bass enhancement.



### MOSFET POWER SUPPLY

MOSFET Power Supply

# A/B

### CLASS A/B

Class A/B Amplifier



### BRIDGEABLE

Bridgeable Output



### 2 OHM STABLE

2 Ohm Stable



### **VARIABLE HP FILTER**

Variable High Pass Filter



### **VARIABLE GAIN CONTROL**

Variable Gain Control



### **VARIABLE BASS BOOST**

Variable Bass Boost

## **SETUP AND INSTALLATION**

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Proper installation is crucial for optimal performance and safety. It is highly recommended to have this amplifier installed by a qualified professional.

### **Mounting the Amplifier**

Choose a mounting location that provides adequate ventilation and is protected from moisture. Ensure the amplifier is securely fastened to a solid surface in the vehicle.



The Planet Audio AC2000.2 amplifier, shown from an angled perspective, highlighting its compact design suitable for various mounting locations within a vehicle. Ensure proper ventilation around the unit.

## Wiring Connections

Follow these general steps for wiring. Refer to a detailed wiring diagram for your specific vehicle and audio setup.

1. **Power Connection:** Connect a heavy gauge power cable (e.g., 4-gauge) from the positive (+) terminal of your car battery to the amplifier's +12V terminal. Install an in-line fuse holder within 18 inches of the battery.
2. **Ground Connection:** Connect a heavy gauge ground cable from the amplifier's GND terminal to a clean, unpainted metal surface on the vehicle's chassis. Ensure a solid, low-resistance connection.
3. **Remote Turn-On:** Connect a remote turn-on wire from your head unit's remote output to the amplifier's REM terminal. This wire turns the amplifier on and off with your head unit.
4. **Input Connections:** Connect your head unit's RCA outputs to the amplifier's RCA inputs. If your head unit does not have RCA outputs, use the provided high input cable to connect to your speaker level outputs.
5. **Speaker/Subwoofer Connections:** Connect your speakers or subwoofer to the amplifier's speaker output terminals. Ensure correct polarity (+ to + and - to -). For bridged mode, follow the specific instructions for bridging.



A detailed view of the Planet Audio AC2000.2 amplifier's control panel, showing the various input and output terminals, as well as adjustment knobs for sensitivity, bass boost, and crossover settings. This panel is where all audio and power connections are made.

## OPERATING INSTRUCTIONS

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Once installed, adjust the amplifier settings for optimal sound performance.

### Controls Overview

- **Sensitivity (Gain) Control:** This knob adjusts the input sensitivity of the amplifier to match the output level of your head unit. Start with the gain at minimum and slowly increase it until you achieve clear, undistorted sound at your desired volume.
- **Variable High-Pass Crossover (HPF):** Use this control to filter out low frequencies from your full-range speakers, allowing them to play higher frequencies more efficiently.
- **Variable Low-Pass Crossover (LPF):** If using the amplifier for a subwoofer, this control filters out high frequencies, ensuring only bass frequencies are sent to the subwoofer.
- **Variable Bass Boost:** Adjust this to enhance the bass output at a specific frequency. Use sparingly to avoid distortion.
- **Remote Subwoofer Level Control:** This wired remote allows you to conveniently adjust the subwoofer output level from the driver's seat.



The remote subwoofer level control, a compact unit with a single rotary knob to adjust the bass output from the amplifier. This allows for convenient adjustments from the vehicle's cabin.

## CARE AND MAINTENANCE

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To ensure the longevity and performance of your amplifier, follow these maintenance tips:

- **Cleaning:** Use a soft, dry cloth to wipe down the amplifier's exterior. Avoid using harsh chemicals or abrasive cleaners.
- **Ventilation:** Periodically check that the amplifier's cooling fins are free from dust and debris to maintain proper airflow.
- **Connections:** Occasionally inspect all wiring connections to ensure they are secure and free from corrosion.
- **Avoid Overheating:** Ensure the amplifier is not covered or obstructed, which could lead to overheating.

## TROUBLESHOOTING GUIDE

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If you encounter issues with your amplifier, consult the following table for common problems and solutions:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No Power / Amplifier does not turn on	Blown fuse, improper power/ground connection, remote wire not connected or faulty.	Check in-line fuse and amplifier fuses. Verify +12V, GND, and REM connections. Ensure remote wire has +12V when head unit is on.
No Sound Output	RCA cables disconnected, speaker wires disconnected or shorted, gain too low, head unit volume too low.	Check RCA and speaker connections. Increase head unit volume. Adjust amplifier gain. Ensure speakers are working.
Distorted Sound	Gain set too high, speaker impedance mismatch, faulty speakers, poor ground connection.	Reduce gain setting. Verify speaker impedance matches amplifier's capabilities. Check speaker condition. Improve ground connection.
Amplifier Overheating (Protection Mode)	Insufficient ventilation, impedance too low, prolonged high volume use.	Ensure adequate airflow around the amplifier. Check speaker impedance. Reduce volume or allow amplifier to cool down.

## TECHNICAL SPECIFICATIONS

Below are the technical specifications for the Planet Audio AC2000.2 amplifier:

Specification	Value
Model	AC2000.2
Number of Channels	2
Output Power	2000 Watts (Max)
Class	Class A/B
Minimum Supply Voltage	10 Volts (DC)
Maximum Supply Voltage	20 Volts (DC)
Item Dimensions (L x W x H)	16 x 10 x 2.4 inches
Item Weight	10.4 Pounds
Material Type	MOSFET
Mounting Type	Surface Mount
Specification Met	FCC

## WARRANTY AND SUPPORT

### Warranty Information

This Planet Audio AC2000.2 amplifier comes with a **6-Year Platinum Online Dealer Warranty** when purchased through Amazon.com. Please retain your proof of purchase for warranty claims.

## **Customer Support**

For technical assistance, troubleshooting beyond this guide, or warranty inquiries, please contact Planet Audio customer support. Refer to the official Planet Audio website or your purchase documentation for current contact information.