Saved from manuals.plus.
Open the live page for links to other documents and user manuals.

Gravity GR4000.1

Gravity GR4000.1 Monoblock Amplifier User Manual

Model: GR4000.1

1. Introduction

Thank you for choosing the Gravity GR4000.1 Monoblock Amplifier. This amplifier is designed to provide powerful and clear audio output for your car's subwoofer system. This manual provides detailed instructions for proper installation, operation, and maintenance to ensure optimal performance and longevity of your amplifier. Please read this manual thoroughly before attempting installation or operation.



Image 1.1: Top view of the Gravity GR4000.1 Monoblock Amplifier. This image displays the sleek black casing with the "GR-4000.1 MONO BLOCK AMPLIFIER" text and "GPOWER 4000W MAX POWER" branding.

2. Safety Information

To prevent injury or damage to the amplifier, please observe the following safety precautions:

- Always disconnect the vehicle's battery negative terminal before starting any installation.
- Ensure proper grounding. A secure ground connection is crucial for amplifier performance and safety.
- Do not mount the amplifier in locations where it may be exposed to water, excessive moisture, or extreme vibrations.
- Protect all wiring from sharp edges and pinch points. Use grommets when passing wires through metal panels.
- Use appropriate gauge power and ground wires as specified in the installation section to prevent overheating and potential fire hazards.
- Never replace fuses with a higher amperage rating than specified.
- If you are unsure about any part of the installation process, seek professional assistance.

3. Package Contents

Verify that all items are present in the package:

- 1 x Gravity GR4000.1 Monoblock Amplifier
- 1 x Remote Bass Control Knob
- 1 x User Manual (this document)



Image 3.1: The included Remote Bass Control Knob. This small black unit features a rotary knob for adjusting bass levels and a connected RJ11 cable for amplifier connection.

4. Key Features

The Gravity GR4000.1 Monoblock Amplifier incorporates several features for enhanced audio performance and reliability:

- **Class AB Technology:** Utilizes Class AB circuitry for a balance of efficiency and sound quality.
- **MOSFET PWM Power Supply:** Efficient power conversion for stable output.
- **1 Ohm Stable:** Capable of driving loads down to 1 Ohm for maximum power output with compatible subwoofers.
- **Bridgeable & TRI-Mode Operation:** Offers flexible configuration options for various speaker setups.
- **Variable Crossovers:** Continuously variable 12dB/Octave High Pass and Low Pass Crossovers for precise audio tuning.
- **Enhanced Variable Bass Boost:** Adjustable bass boost up to +12dB at 50Hz for deeper bass control.
- **Remote Level Control:** Allows convenient adjustment of subwoofer output from the driver's seat.
- **Protection Circuitry:** Features Soft Start & Muting, Overload, Thermal, and Short Circuit Protection for amplifier and speaker safety.
- **LED Indicators:** Power and Protection indicators for easy status monitoring.

5. Setup and Installation

Proper installation is critical for the performance and safety of your amplifier. If you are not confident in your ability to install this unit, please consult a professional installer.

5.1 Mounting Location

- Choose a location that provides adequate ventilation for the amplifier. Avoid enclosed spaces.
- Mount the amplifier securely to a solid surface to prevent movement during vehicle operation.
- Keep the amplifier away from heat sources and areas prone to moisture.

5.2 Wiring Connections

Before making any connections, ensure the vehicle's battery negative terminal is disconnected.



Image 5.1: Rear view of the Gravity GR4000.1 Monoblock Amplifier, showing the power, ground, remote, speaker terminals, and RCA inputs/outputs. The control panel with gain, crossover, and bass boost settings is also visible.

1. **Power Connection (+12V):** Connect a suitable gauge power cable (e.g., 4 AWG or larger for high power) from the vehicle's positive battery terminal to the amplifier's "+12V" terminal. Install an in-line fuse holder within 18 inches (45 cm) of the battery. The fuse rating should match the amplifier's requirements (25A).
2. **Ground Connection (GND):** Connect a power cable of the same gauge as the +12V wire from the amplifier's "GND" terminal to a clean, unpainted metal surface of the vehicle chassis. Ensure a solid, low-resistance connection.
3. **Remote Turn-On (REM):** Connect a remote turn-on wire (typically 18 AWG) 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. **RCA Input:** Connect RCA cables from your head unit's subwoofer or full-range pre-outs to the amplifier's "LINE INPUT" RCA jacks.
5. **Speaker Output:** Connect your subwoofer(s) to the amplifier's "SPEAKER" terminals. Ensure correct polarity (+ to + and - to -). This amplifier is 1 Ohm stable, allowing for flexible subwoofer wiring configurations. Refer to your subwoofer's specifications for impedance matching.
6. **Remote Bass Control:** Connect the remote bass control knob to the "REMOCON" port on the amplifier using the provided cable.

6. Operation and Adjustments

Once the amplifier is installed, you can power it on and adjust the settings for optimal sound.

6.1 Initial Power-Up

1. Reconnect the vehicle's battery negative terminal.
2. Turn on your head unit. The "POW" (Power) LED on the amplifier should illuminate green. If the "PRO" (Protection) LED illuminates red, refer to the Troubleshooting section.
3. Start with the amplifier's GAIN control set to minimum (fully counter-clockwise).

6.2 Control Panel Adjustments

The amplifier features several controls for fine-tuning your audio system:

- **GAIN (Input Sensitivity):** Adjust this control to match the output voltage of your head unit. Start low and slowly increase until you hear distortion, then back off slightly. This is not a volume control.
- **LPF (Low Pass Filter):** This control sets the upper frequency limit for the subwoofer. Adjust it to blend smoothly with your main speakers. A common range for subwoofers is 50Hz to 100Hz.
- **BASS BOOST:** This control allows you to enhance bass output at 50Hz. Use sparingly to avoid distortion and potential speaker damage.
- **PHASE:** Adjust the phase (0° or 180°) to ensure the subwoofer's output is in phase with your main speakers, providing a more cohesive sound.
- **REMOCON (Remote Level Control):** The external remote knob allows you to adjust the subwoofer's output level conveniently from the driver's seat.

7. Maintenance

The Gravity GR4000.1 amplifier requires minimal 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 cooling fins are free from dust and debris to maintain proper heat dissipation.
- **Connections:** Occasionally check all power, ground, and speaker connections to ensure they are secure and free from corrosion.

8. Troubleshooting

If you experience problems with your amplifier, refer to the following common issues and solutions:

Problem	Possible Cause	Solution
No Power (Power LED off)	Blown fuse (in-line or amplifier) Poor power or ground connection No remote turn-on signal	Check and replace fuses if necessary (use correct rating). Verify all power and ground connections are secure. Check remote wire connection and head unit output.
Protection LED (PRO) is on	Short circuit in speaker wiring Overheating Low impedance load	Inspect speaker wires for shorts to ground or each other. Ensure adequate ventilation; allow amplifier to cool. Verify speaker impedance is 1 Ohm or higher.
No Sound Output	RCA cables disconnected or faulty Speaker wires disconnected or faulty Gain set too low	Check RCA connections at both head unit and amplifier. Verify speaker wire connections at amplifier and subwoofer. Slowly increase GAIN control.
Distorted Sound	Gain set too high Bass Boost set too high Improper crossover settings	Reduce GAIN control. Lower BASS BOOST setting. Adjust LPF for a smoother blend.

9. Specifications

Technical specifications for the Gravity GR4000.1 Monoblock Amplifier:

Feature	Specification
Maximum Output Power	4000 Watts
Power MAX (2 Ohms) @ 1% THD	4000W x 1
Power MAX (4 Ohms) @ 1% THD	2050W x 1
Power MAX (1 Ohms) @ 1% THD	Not specified (NC)
S/N Ratio	>70dB
Low Pass Crossover (Variable)	50 Hz ~ 250 Hz
Frequency Response	10 Hz ~ 250 Hz
Input Sensitivity	200mv-6V
Input Impedance	22k Ohms
Operation Voltage (Negative Ground)	DC 12V
Speaker Impedance @ Stereo Driven	1 Ohms
Fuse Rating	25A
Dimensions (W x H x D)	10.5 x 2.25 x 18.3 inches

Feature	Specification
Number of Channels	1 (Monoblock)
Specification Met	FCC

10. Warranty Information

Gravity products are designed and manufactured to the highest quality standards. For specific warranty terms and conditions, please refer to the warranty card included with your product or contact Gravity customer support. Keep your purchase receipt as proof of purchase.

11. Customer Support

If you have any questions, require technical assistance, or need to report a problem with your Gravity GR4000.1 amplifier, please contact Gravity customer support.

- **Website:** www.gravityaudio.com (*Note: This is a placeholder URL as no official support link was provided in the product data. Please refer to your product packaging for the correct support website.*)
- **Email:** support@gravityaudio.com (*Placeholder email.*)
- **Phone:** Refer to your product packaging or the official Gravity website for contact numbers.

© 2026 Gravity. All rights reserved.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Open the live page

https://manuals.plus/asin/B08R15QXN1

More documents and user manuals: **https://manuals.plus/**