

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

- › [Ground Zero](#) /
- › [Ground Zero GZIA 135.4 4-Channel Amplifier User Manual](#)

Ground Zero GZIA 135.4

Ground Zero GZIA 135.4 4-Channel Amplifier User Manual

1. INTRODUCTION

Thank you for choosing the Ground Zero GZIA 135.4 4-Channel Amplifier. This powerful car amplifier is designed to deliver clean and dynamic audio performance to your vehicle's speakers. Its compact design allows for installation in various spaces while providing impressive sound output. With 135 watts per channel at a 4-ohm load, you can experience your music with clarity and volume. The robust construction and high-quality components ensure long-term reliability and operation. Please read this manual thoroughly before installation and operation to ensure proper use and maximum performance.

2. SAFETY INSTRUCTIONS

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

- Always disconnect the vehicle's battery negative terminal before beginning any electrical work.
- Professional installation is highly recommended. Incorrect wiring can cause serious damage or fire.
- Avoid installing the amplifier in areas exposed to moisture, excessive heat, or direct sunlight.
- Ensure adequate ventilation around the amplifier to prevent overheating.
- Use appropriate gauge wiring for power, ground, and speaker connections as specified in the installation section.
- Protect all wiring from sharp edges and moving parts.
- Do not open the amplifier casing. There are no user-serviceable parts inside. Refer servicing to qualified personnel.
- Keep the volume at a level that allows you to hear outside traffic sounds. Excessive volume can cause hearing damage.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Ground Zero GZIA 135.4 4-Channel Amplifier
- Mounting hardware (screws)
- User Manual
- Optional: Remote bass level control (if included with your specific model)

4. PRODUCT OVERVIEW

The Ground Zero GZIA 135.4 amplifier features a comprehensive control panel and robust connection terminals for optimal audio system integration.



This image displays two views of the Ground Zero GZIA 135.4 amplifier. The top view shows the control panel with gain, crossover (HPF/LPF), and bass boost adjustments for channels 1/2 and 3/4, along with RCA inputs and high-level inputs. The bottom view illustrates the power (GND, REM, +12V) and speaker output terminals (CH1-CH4), including bridging options, and two 30A fuses.



This image shows an optional remote bass level control knob, typically used to adjust the subwoofer output level from the driver's seat. It features 'MIN' and 'MAX' settings.

5. SETUP AND INSTALLATION

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

5.1. Planning the Installation

- Choose a mounting location that is dry, well-ventilated, and protected from physical damage. Common locations include under seats, in the trunk, or behind panels.
- Ensure sufficient space for wiring connections and air circulation.
- Plan the routing of power, ground, remote, RCA, and speaker cables to avoid interference and ensure proper lengths.

5.2. Mounting the Amplifier

- Use the provided mounting screws to secure the amplifier firmly to a solid surface.
- Ensure the mounting surface can support the amplifier's weight.

5.3. Power Wiring

- **+12V (Power):** Connect a heavy-gauge power cable (e.g., 8 AWG or larger, depending on total system power) directly from the vehicle's positive battery terminal to the +12V terminal on the amplifier. Install an appropriate fuse holder (e.g., 60A for this amplifier) within 18 inches (45 cm) of the battery.
- **GND (Ground):** Connect a heavy-gauge ground cable of the same size as the power cable from the amplifier's GND terminal to a clean, unpainted metal surface on the vehicle chassis. Ensure a solid, low-resistance connection.
- **REM (Remote Turn-On):** Connect a smaller gauge wire (e.g., 18 AWG) 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 the head unit.

5.4. Signal Input

- **RCA Inputs:** Connect RCA cables from your head unit's pre-amp outputs to the amplifier's CH1/CH2 and CH3/CH4 RCA inputs.
- **High-Level Inputs:** If your head unit does not have RCA outputs, use the high-level inputs. Connect the speaker wires from your head unit directly to the amplifier's high-level input terminals.

5.5. Speaker Wiring

- Connect your speakers to the amplifier's speaker output terminals (CH1, CH2, CH3, CH4).
- Ensure correct polarity (+ to + and - to -) for all speakers.
- For bridged operation (e.g., for a subwoofer), connect the speaker to the designated bridged terminals (e.g., CH3+ and CH4- for a 2-channel bridged output). Refer to the diagram on the amplifier for specific bridging instructions.
- Ensure the speaker impedance matches the amplifier's capabilities (typically 2-4 ohms per channel, or 4-8 ohms bridged).

6. OPERATING INSTRUCTIONS

Once the amplifier is installed and wired correctly, you can proceed with initial setup and adjustments.

6.1. Initial Power-Up

- After all connections are made, reconnect the vehicle's battery.
- Turn on your head unit. The amplifier's power indicator should illuminate. If the 'PROTECT' light illuminates, immediately turn off the system and check all wiring for shorts or incorrect connections.

6.2. Gain Adjustment

- Set the amplifier's GAIN controls to minimum.
- Play a familiar music track at about 75% of your head unit's maximum volume.
- Slowly increase the amplifier's GAIN control until you hear distortion, then back it off slightly until the sound is clean. This matches the amplifier's input sensitivity to the head unit's output.

6.3. Crossover Settings (HPF/LPF)

- **HPF (High Pass Filter):** Use this for full-range speakers or tweeters to block low frequencies that they cannot reproduce effectively. Adjust the frequency knob to the desired cutoff point (e.g., 80 Hz for door speakers).
- **LPF (Low Pass Filter):** Use this for subwoofers to block high frequencies, allowing only bass to pass through. Adjust the frequency knob to the desired cutoff point (e.g., 80-120 Hz for subwoofers).
- **FLAT:** Bypasses the crossover, allowing full-range audio.

6.4. Bass Boost

- The BASS BOOST control allows you to enhance low frequencies. Use sparingly to avoid distortion and potential speaker damage. Start at 0dB and increase gradually if desired.

6.5. Remote Bass Control (Optional)

- If equipped, connect the remote bass control to the designated port on the amplifier. This allows for convenient adjustment of the bass level from the driver's seat.

7. MAINTENANCE

The Ground Zero GZIA 135.4 amplifier requires minimal maintenance to ensure long-term performance.

- **Cleaning:** Periodically wipe the amplifier's exterior with a soft, dry cloth. 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 lead to poor performance or damage.
- **Ventilation:** Ensure that the amplifier's cooling fins are not obstructed by debris or other objects to maintain proper airflow and prevent overheating.

8. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Amplifier does not turn on (no power light)	Blown fuse (battery or amplifier) Loose power or ground connection No remote turn-on signal	Check and replace fuses if necessary. Verify all power and ground connections are secure. Check remote wire connection to head unit and amplifier.
Amplifier turns on but no sound	Loose RCA or speaker connections Incorrect gain or crossover settings Head unit volume too low or muted	Check all RCA and speaker connections. Adjust gain and crossover settings. Increase head unit volume and check mute function.
Distorted sound	Gain set too high Speaker impedance mismatch Damaged speakers or wiring	Reduce gain setting. Verify speaker impedance is compatible. Inspect speakers and wiring for damage.
Amplifier overheats (PROTECT light on)	Insufficient ventilation Speaker impedance too low Internal fault	Ensure amplifier has adequate airflow. Check speaker impedance. Do not run below minimum recommended impedance. If problem persists, seek professional service.

If these steps do not resolve the issue, contact your authorized Ground Zero dealer or a professional car audio technician for assistance.

9. SPECIFICATIONS

Manufacturer	Ground Zero
Brand	Ground Zero
Model Number	GZIA 135.4

Product Reference	GZIA135.4
Number of Channels	4
Output Power	135 Watts per channel (at 4 ohms)
Mounting Type	Independent mounting
Components Included	Amplifier
Package Dimensions	37 x 20 x 8 cm
Package Weight	2.5 kilograms
Package Type	Simple Box

10. WARRANTY AND SUPPORT

Ground Zero products are designed and manufactured to the highest quality standards. Specific warranty terms and conditions may vary by region and retailer. Please retain your proof of purchase for any warranty claims.

For technical support, service, or warranty inquiries, please contact your authorized Ground Zero dealer or the retailer from whom you purchased the product. Information regarding spare parts availability is currently unavailable.