

Ground Zero 00113441

Ground Zero GZNA 2800XII 2-Channel Amplifier User Manual

Model: GZNA 2800XII (Part No. 00113441)

1. INTRODUCTION

Thank you for choosing the Ground Zero GZNA 2800XII 2-Channel Amplifier. This manual provides essential information for the proper installation, operation, and maintenance of your amplifier. To ensure optimal performance and safety, please read these instructions thoroughly before attempting to install or operate the unit. Keep this manual for future reference.

2. SAFETY INSTRUCTIONS

- Professional Installation Recommended:** Due to the complexity of car audio systems and the high power output of this amplifier, professional installation by a qualified technician is strongly recommended.
- Power Supply:** Ensure the vehicle's electrical system can support the amplifier's power requirements. Incorrect wiring can lead to fire, injury, or damage to the amplifier and vehicle.
- Grounding:** Always connect the ground terminal securely to a clean, unpainted metal surface of the vehicle chassis. A poor ground connection can cause noise or malfunction.
- Fuse Protection:** Install an appropriate fuse (not supplied) on the power cable as close to the vehicle battery as possible. Refer to the specifications for recommended fuse ratings.
- Avoid Moisture and Heat:** Do not expose the amplifier to moisture, water, or extreme temperatures. Install it in a dry, well-ventilated area.
- Secure Mounting:** Mount the amplifier securely to prevent it from coming loose during sudden stops or accidents.
- Cable Routing:** Route all cables carefully to avoid pinching, chafing, or interference with vehicle controls. Keep power cables separate from signal cables to minimize noise.
- Volume Levels:** Prolonged exposure to high volume levels can cause hearing damage. Adjust volume responsibly.

3. PRODUCT OVERVIEW

The Ground Zero GZNA 2800XII is a high-performance 2-channel amplifier designed for car audio applications, capable of delivering up to 2800 Watts of maximum power. Its robust design ensures reliable operation and excellent sound reproduction.

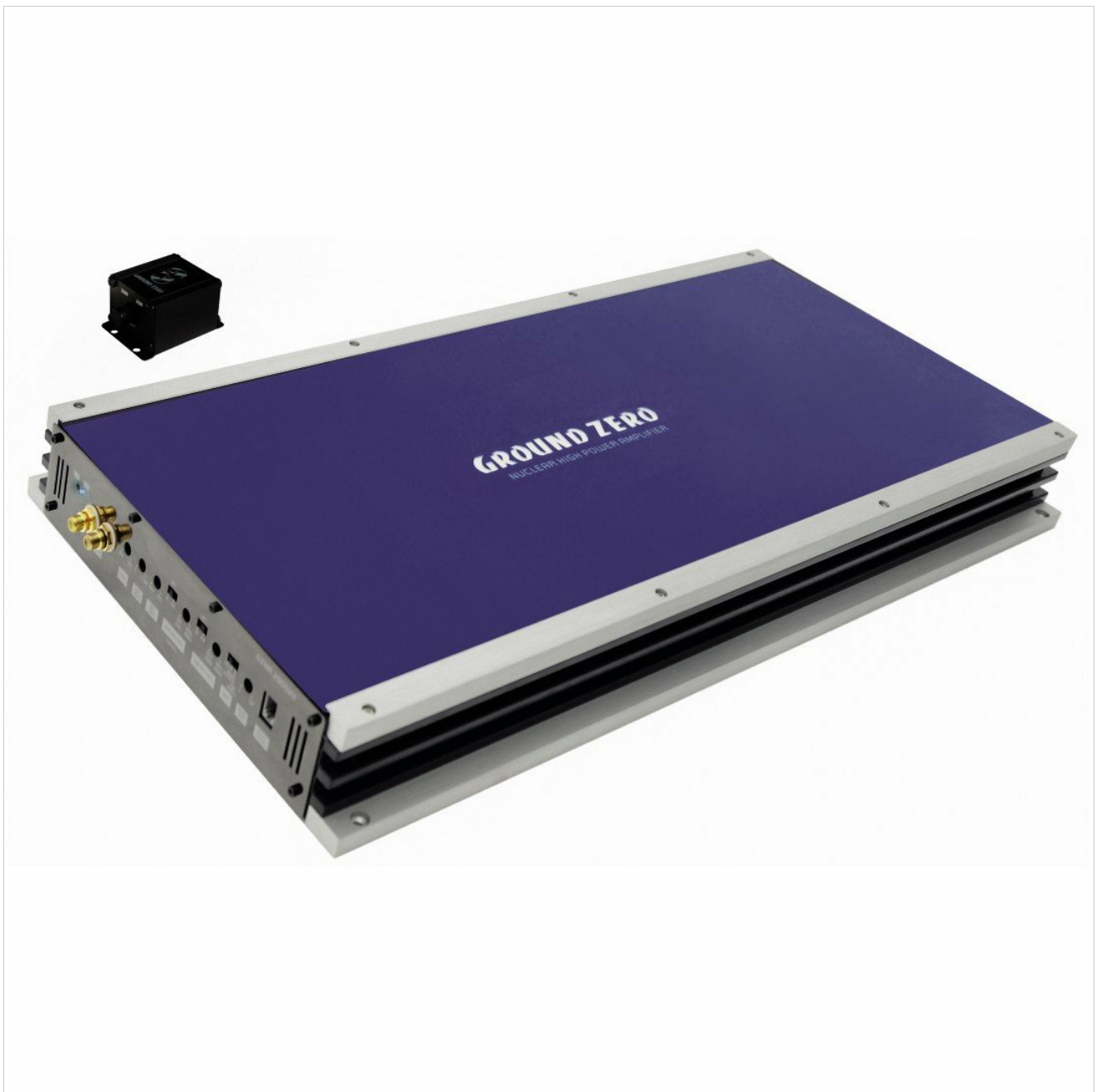


Figure 1: Top view of the Ground Zero GZNA 2800XII 2-Channel Amplifier. The amplifier features a dark blue top panel with the 'GROUND ZERO NUCLEAR HIGH POWER AMPLIFIER' logo, and silver-colored heatsink fins on the sides. A small, separate black power module is visible in the upper left corner, indicating a robust power supply design.



Figure 2: Internal view of the Ground Zero GZNA 2800XII amplifier with the top cover removed, revealing the circuit board. The orange PCB is densely populated with high-quality components, including large toroidal transformers, numerous capacitors, and power transistors, indicating a high-current, high-power design for stable and efficient operation.

4. SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of your amplifier. Always disconnect the vehicle's battery negative terminal before starting any electrical work.

4.1. Mounting Location

- Choose a dry, well-ventilated location away from direct sunlight and heat sources.
- Ensure sufficient airflow around the amplifier's heatsink fins for proper cooling.
- Mount the amplifier securely to a solid surface using appropriate hardware.

4.2. Power Connections

1. **Power Cable (B+):** Run a heavy-gauge power cable directly from the positive terminal of the vehicle's battery to the amplifier's B+ terminal. Install an in-line fuse holder with an appropriate fuse (refer to specifications) within 18 inches

(45 cm) of the battery.

- 2. **Ground Cable (GND):** Connect a heavy-gauge ground cable from the amplifier's GND terminal to a clean, unpainted metal point on the vehicle chassis. The ground cable should be as short as possible, ideally less than 3 feet (1 meter).
- 3. **Remote Turn-On Cable (REM):** Connect a smaller gauge wire from the amplifier's REM terminal to the remote turn-on output of your head unit. This signal turns the amplifier on and off with your car's audio system.

4.3. Signal Input

- Connect RCA cables from your head unit's pre-out outputs to the amplifier's RCA input jacks.
- Ensure proper channel matching (Left to Left, Right to Right).

4.4. Speaker Output

- Connect your speakers to the amplifier's speaker output terminals. Observe correct polarity (+ to + and - to -).
- Ensure the speaker impedance matches the amplifier's recommended load.

5. OPERATING INSTRUCTIONS

Once the amplifier is correctly installed, follow these steps for initial setup and operation:

- 1. **Initial Power-Up:** Reconnect the vehicle's battery. Turn on your head unit. The amplifier should power on, indicated by an LED indicator.
- 2. **Gain Setting:** Start with the amplifier's gain control set to minimum. Play a familiar piece of music at a moderate volume on your head unit. Slowly increase the amplifier's gain until you hear distortion, then back off slightly. The gain control is not a volume control; it matches the amplifier's input sensitivity to the head unit's output.
- 3. **Crossover Settings:** Adjust the amplifier's crossover filters (if available) according to your speaker type and system configuration. For subwoofers, use a Low-Pass Filter (LPF). For full-range speakers, use a High-Pass Filter (HPF).
- 4. **Fine-Tuning:** Make small adjustments to the gain and crossover settings to achieve balanced and clear sound.

6. MAINTENANCE

The Ground Zero GZNA 2800XII amplifier requires minimal maintenance to ensure long-term performance.

- **Cleaning:** Periodically wipe the exterior of the amplifier with a soft, dry cloth to remove dust. Do not use harsh chemicals or abrasive cleaners.
- **Inspection:** Regularly check all wiring connections for tightness and signs of corrosion. Ensure proper ventilation around the amplifier.
- **Avoid Obstructions:** Do not place objects on top of the amplifier that could block airflow to the heatsink.

7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Amplifier does not turn on	No power, blown fuse, faulty ground, no remote signal	Check power cable connection, replace fuse, verify ground connection, check remote turn-on wire.

Problem	Possible Cause	Solution
No sound output	No input signal, speaker wires disconnected, gain too low, amplifier in protect mode	Check RCA connections, verify speaker wiring, adjust gain, check for protect light (if lit, refer to manual or contact support).
Distorted sound	Gain set too high, poor ground, damaged speakers, incorrect crossover settings	Reduce gain, improve ground connection, inspect speakers, adjust crossover settings.
Excessive noise (hiss, whine)	Poor grounding, signal cable interference, faulty RCA cables	Ensure solid ground connection, route signal cables away from power cables, try different RCA cables.

If the problem persists after attempting these solutions, please contact Ground Zero customer support or a qualified car audio technician.

8. SPECIFICATIONS

The following are the technical specifications for the Ground Zero GZNA 2800XII 2-Channel Amplifier:

Feature	Specification
Model Number	00113441
ASIN	B003TSD3VI
International Article Code	04037072004311
Number of Channels	2
Maximum Output Power	2800 Watts
Operating Voltage	14.4 Volts (Nominal)
Mounting Type	Freestanding
Package Dimensions	70 x 36 x 12 cm (27.5 x 14.2 x 4.7 inches)
Package Weight	5.44 kg (12 lbs)

9. WARRANTY AND SUPPORT

Ground Zero products are manufactured to high-quality standards. For specific warranty information, please refer to the warranty card included with your product or visit the official Ground Zero website. In case of technical issues or questions not covered in this manual, please contact your authorized Ground Zero dealer or customer support for assistance.

Related Documents



IRIDIUM SERIES
Active Vented Subwoofer

GZIB 2.30BR-ACT

GZIB 2.30BR-ACT

Anleitung / Owner's manual
2003.9

- Hochwertiger Baustoffe Schmelzer
- KUPPL' optimiert
- KUPPL' mit 3D-Handsteuer
- Motoren- und Zylinder aus HOP
- 20 KUPPL' Ventile
- Teillastdrehd. (80 - 120 Nm)
- Drehmomentsteigerung mit Auto-On-Function
- Regulierbare Last-Anhebung (Load boost)
- Drehmomentsteigernde Steuersystem
- Optimierte Ventileinstellung (3D/TA Steuerung)
- High-Output ventiler Schmelzer
- KUPPL' optimiert
- KUPPL' mit 3D-Handsteuer
- Gold enclosure from HOP
- 20 KUPPL' Ventile
- Low power level (80 - 120 Nm)
- Drehmomentsteigerung mit Auto-On-Function
- Optimierte Last-Anhebung (Load boost)
- Drehmomentsteigernde Steuersystem
- Optimaler variable remote control (3D/TA Steuerung)

[Ground Zero GZIB 2.30BR-ACT Iridium Series Active Vented Subwoofer Owner's Manual](#)

This manual provides comprehensive information for the Ground Zero GZIB 2.30BR-ACT Iridium Series Active Vented Subwoofer, covering features, installation, safety instructions, technical specifications, and troubleshooting.



RADIOACTIVE-SERIES VERSTÄRKER

ANLEITUNG

GZRA 1.2500D

For all other variables

- [illegible]

Ground Zero GZRA 1.2500D: Anleitung für den Verstärker

Umfassende Anleitung für den Ground Zero GZRA 1.2500D Verstärker der RADIOACTIVE-SERIES. Enthält Installationsschritte, technische Daten, Anschlussdiagramme und Fehlerbehebung für ein optimales Klangerlebnis im Fahrzeug.



[Ground Zero GZNW 38C High Performance Subwoofer - Owner's Manual](#)

Detailed owner's manual for the Ground Zero GZNW 38C High Performance Subwoofer, covering features, technical specifications, installation, safety, and warranty. Learn about its Klippel® optimized design and recommended usage.



TITANIUM SERIES

GZTC 165.3X-II

Anleitung / Owner's manual

Hardware / Features

- Hochwertiges 3-Wege-Komponentensystem
- Doppel-Regelventil
- Hochdruck 3-Wege-Lackpumpe
- HZPF Ventile mit 1/2"-Struktur
- Weiche mit Hartmetallventilen
- Recirculation-GS-Schaltventil
- 25 mm Sealed-Bore-Hochdruck- mit Einbauelementen
- 3-Wege-Passageweiche mit Tapselungsfunktion
- Heizen-Schaltventil
- High quality 3-way component system
- Double-Regulated
- High-Pressure 3-Way Lac Pump
- HZPF valves with 1/2" structure
- Soft valve with Hard Metal Valve
- Recirculation GS Switch Valve
- 25 mm Sealed-Bore High-Pressure with In-Line Elements
- 3-Way Passage Valve with Tapselung Function
- Heating Switch Valve

[Ground Zero GZTC 165.3X-II Titanium Series Component Loudspeaker System Owner's Manual](#)

Owner's manual for the Ground Zero GZTC 165.3X-II Titanium Series component loudspeaker system, detailing features, installation guidelines, safety precautions, technical specifications, crossover adjustments, wiring diagrams, and the company's philosophy.