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Limited warranty - defective products must be returned in original packaging - please add a copy of the original purchasing invoice showing the purchasing date and a detailed description of the failure. Failure caused by overload, misuse or by using the product for competition purpose are not covered by the warranty. We reserve the right to make needed change or improvement to the product without informing customer about this in advance.

De Garantie bepalingen van alle door ground zero geleverde producten is volgens wettelijke bepalingen geregeld. Een retourzending kan alleen na duidelijke afspraak en in de originele verpakking plaatsvinden. SVP een aankoopbon en een duidelijke storingsomschrijving bijvoegen. Van garantie uitgesloten zijn defecten door overbelasting, onkundig gebruik, of door deelname aan wedstrijden (SPL) ontstaan zijn. Wij behouden ons het recht om de nodige veranderingen of verbeteringen aan het product door te voeren zonder de klant hierover te informeren.

La garantie est conforme aux droits légaux. Un retour du produit défectueux doit être dans son emballage d'origine sur présentation du reçu ou de la facture indiquant la description du défaut. La présente Garantie n'est pas applicable lorsque le produit a été endommagé en raison: Mauvaise alimentation, Trop de puissance (HP, Subwoofer) Accident, Installation ou Utilisation non conforme aux normes Technique (Concours SPL etc). Nous nous réservons le droit d'entreprendre à l'avenir nécessairement des modifications ou des améliorations au produit sans informer le client.

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GROUND ZERO[®]

GERMAN ENGINEERING

RADIOACTIVE-SERIES AMPLIFIER

OWNER'S MANUAL

GZRA MICRO ONE

Features

- High efficient compact amplifier
- 1 Channel class D
- 2 Ohm stable
- Variable 12dB Bass boost (45Hz)
- Variable Phase shift 0 - 180°
- Variable Subsonic 15 - 25 Hz
- Variable Lowpass 40 - 400 Hz
- Adjustable input sensitivity
- Soft delayed remote turn on
- Stereo RCA input
- High level input including auto-on
- Bass remote control
- Thermal / Short / Overload protection

Tools and materials you need

- Screwdriver
- Electric drill, 3 mm / 0.12" carbide drill bit
- Mounting screws
- Soldering gun
- Power wire min. 8 mm² / 8AWG
- Ground wire min. 8 mm² / 8AWG
- Speaker wire min. 2 x 2,5 mm² / 13AWG

Please note

- As a precaution it is advisable to disconnect the vehicle's battery before making connection to the +12 Volts supply wiring (see owner's manual of your car for further information).
- Please use great caution drilling in your car. Your gas tank, brake lines or cables can be damaged by puncturing with your drill bit – this could cause damage or failure of your cars operating systems.
- Never pass wires over sharp angles. It is recommended to buffer the power supply of the amplifier with an additional capacitor (power cap) min. 1 F to guarantee a stable operation voltage.

Planning your system

Before beginning the installation, consider the following:

- a) If you plan to expand your system by adding other components sometime in the future, ensure adequate space is left, and cooling requirements are met.
- b) If your radio is equipped with preamplifier outputs (RCA), it is advisable to use them.

Mounting your amplifier

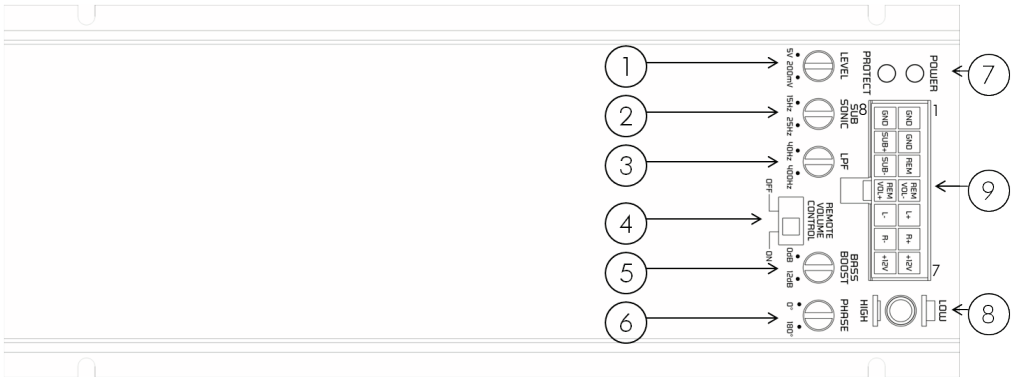
- a) Select a suitable location that is convenient for mounting, is accessible for wiring and has ample room for air circulation and cooling.
- b) Use the amplifier as a template to mark the mounting holes, remove the amplifier and drill 4 holes. Then mount the amplifier with the mounting screws.

Warning

Choose a mounting position where all electric wires are protected from being damaged by sharp edges, heat or other conditions. +12Volt DC electrical connections must be fused on the battery side. Make sure your radio and all other devices will be turned off while connection your system.

If you need to replace the power fuse, replace it only with a fuse identical to that supplied with the system. Using a fuse of different type or rating may result in damage to this system which isn't covered by the warranty.

Controls and functions



1	Input level controller	With this controller you can adjust the input sensitivity.
2	Subsonic controller	This controller allows you to filter low frequencies in a range between 15 and 25 Hz. This function reduces the mechanical Xmax and raises the capacity of the connected subwoofer.
3	Low pass controller	Adjust the variable lowpass frequency to the desired frequency between 40 and 400 Hz using the controller.
4	Remote volume control	On – If the bass remote controller is connected Off – If the bass remote controller is not connected
5	Bass boost controller	For adjusting of the bass boost level in the range from 0 to +12 dB.
6	Phase shift controller	This controller allows you to fit the subwoofer channel in-phase to the front system.
7	Status indication	GREEN – OK RED – Error
8	High / Low switch	Switch between high and low level (RCA) input.
9	Main connector	Pin 1: GND -> Ground connection (Black) Pin 2: GND -> Ground connection (Black) Pin 3: REM -> Remote – on (Red thin) Pin 4: REM Vol (-) -> Bass remote (Orange/White) Pin 5: Input left -> Positive signal input L (White) Pin 6: Input right -> Positive signal input L (Grey) Pin 7: BATT -> Input power supply +12 Volt (Red thick) Pin 8: GND -> Ground connection (Black) Pin 9: OUTPUT +> Positive speaker output SUB (Yellow) Pin 10: OUTPUT -> Negative speaker output SUB (Darkblue) Pin 11: REM Vol (+) -> Bass remote (Orange) Pin 12: Input left -> Negative signal input L (White/Black) Pin 13: Input right -> Negative signal input L (Grey/Black) Pin 14: BATT -> Input power supply +12 Volt (Red thick)

Amplifier connection

- The GZRA MICRO ONE comes with a power and signal connector cable. For a reliable connection we strongly recommend to use the delivered spade connections or solder the joints.
- Make sure input connectors are making good contact with input jacks of the amplifier to avoid shortage or interruption
- Never use any other connector instead of the original Ground Zero connector. In case of a defective connector cable, please contact the Ground Zero service.

Turning on the amplifier

The amplifier automatically turns on a few seconds after you turn on your radio.

Note: Your amplifier temporarily shuts down if it gets too hot, then restarts automatically once it cools (At about 80° / 176° F).

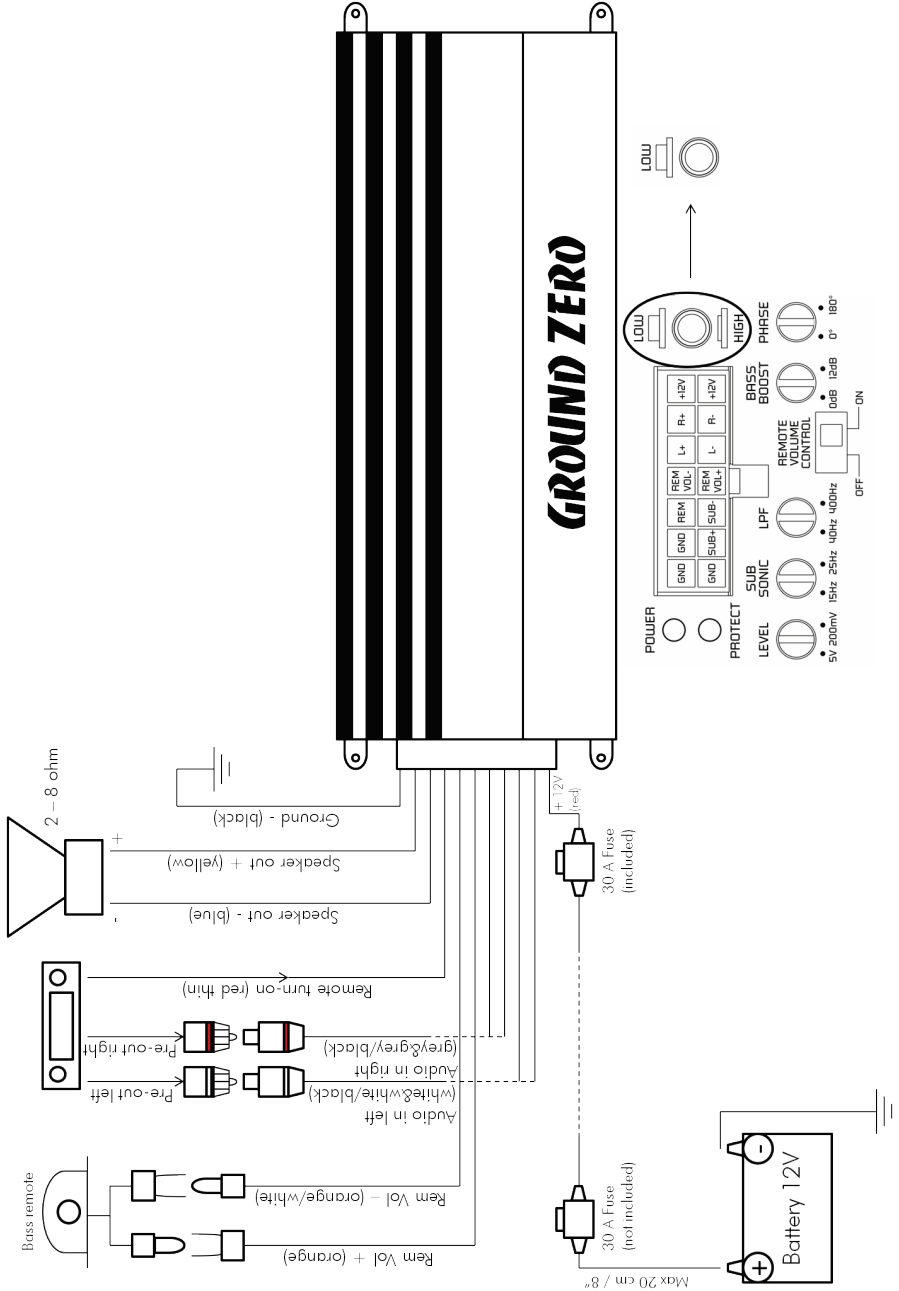
Adjusting the audio level

1. LEVEL (Min/Max): Turn fully counter- clockwise to MIN position
2. Turn the auto sound system's volume control to about two-third of its full range.
3. Adjust LEVEL to a comfortable listening level.

WARNING !

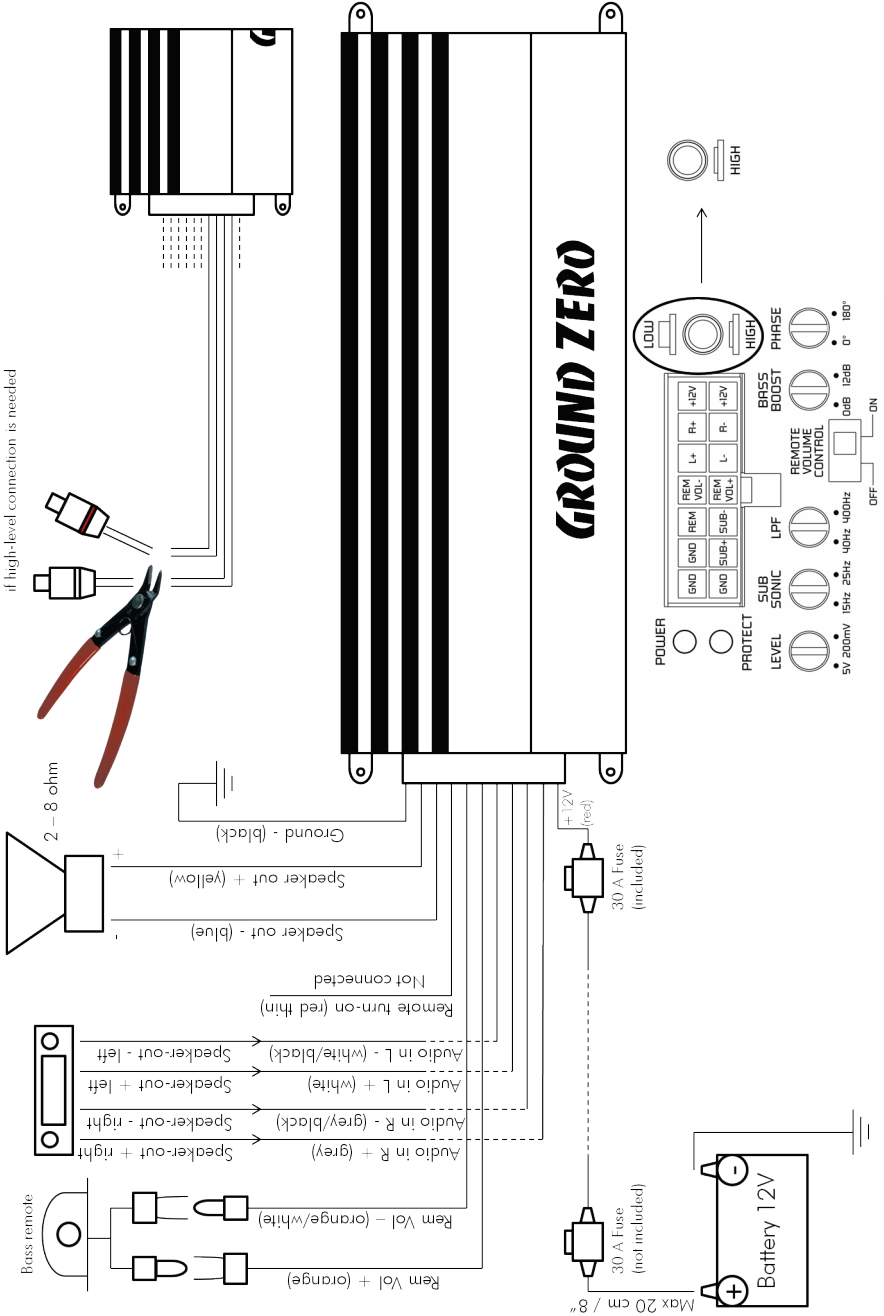
High powered audio systems in a vehicle are capable of generating "Live Concert" levels of sound pressure. Continued exposure to excessively high volume sound levels may cause hearing loss or damage. Also, operation of a motor vehicle while listening to audio equipment at high volume levels may impair your ability to hear external sounds such as; horns, warning signals, or emergency vehicles, thus constituting to a potential traffic hazard. In the interest of safety, Consumer Electronics recommends listening at lower volume levels while driving.

RCA (low level) wiring



High level wiring

Cut the RCA plugs, if high-level connection is needed



Specifications

Model	GZRA MICRO ONE
Type	1 Channel Class D
RMS Power @ 4 Ω CEA Standard CEA-2006-A	1 x 220 W (1% THD+N) 1 x 270 W (10% THD+N)
RMS Power @ 2 Ω CEA Standard CEA-2006-A	1 x 350 W (1% THD+N) 1 x 400 W (10% THD+N)
Damping factor	> 100
Lowpass	40 Hz – 400 Hz
Subsonic filter	15 Hz – 25 Hz
Bass boost	0 ~ +12 dB (45 Hz)
Frequency response	15 Hz – 400 Hz (\pm 1 dB)
Input sensitivity	200 mV – 5 V (\pm 5%)
Bass remote control	✓
Fuse	30A
Min Power and GND Wire	8 mm ² / 8 AWG
Dimensions W x H x L mm	75 x 44 x 190
Dimensions W x H x L inch	2.95" x 1.73" x 7.48"

Trouble shooting guide

Symptoms	Check Points	Cure
No sound	Is the POWER LED illuminated?	Check fuses in amplifier. Be sure remote lead is connected. Check signal leads. Check again control. Check tuner/deck volume level.
	Is the diagnostic LED illuminated?	Check for speaker short or amplifier overheating
Amp not switching on	No power to the amplifier	Check power wire or connections
	No power to remote wire with receiver on	Check connections to radio
No sound in one channel	Check speaker leads	Inspect for short circuit or an open connection
	Check audio leads	Reverse left and right RCA inputs to determine if it is occurring before the amp
Amp turning off at medium / high volume	Check speaker load impedance	Check the nominal load impedance at the amplifier is equal to or greater than 2 ohms. (If you use an ohm meter to check speaker resistance, please remember that DC resistance and AC impedance may not be the same.)
Protection LED is on	Temperature shut down	Turn radio volume down
	Speaker wires short	Separate speaker wires and insulate