

GROUND ZERO®

GERMAN ENGINEERING

OWNER`S MANUAL

GZ BASS KIT 12.300

Features

- 2-Channel class AB amplifier GZBA 2.300
- 2 Ohm stable stereo / 4 Ohm stable bridged
- Power and protection indicator
- Bass Boost / Variable lowpass
- Auto-On @ High Level Input
- Adjustable input sensitivity
- 30 cm / 12" loaded enclosure with front bass tunnel
- High power Klippel® optimized subwoofer chassis

Tools and materials you need

- Screwdriver
- Electric drill, 3 mm / 0.12" carbide drill bit
- Mounting screws
- Power wire min. 10 mm² / 7 AWG
- Ground wire min. 10 mm² / 7 AWG
- Speaker wire min. 2 x 1,5 mm² / 15 AWG

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 your trunk. Your gas tank and brake lines 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 amp with a 1 Farad capacitor to guarantee a stable operation voltage.

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.

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 / source is equipped with pre-amp outputs, it is possible to utilize them to drive the amplifier

Mounting your amplifier

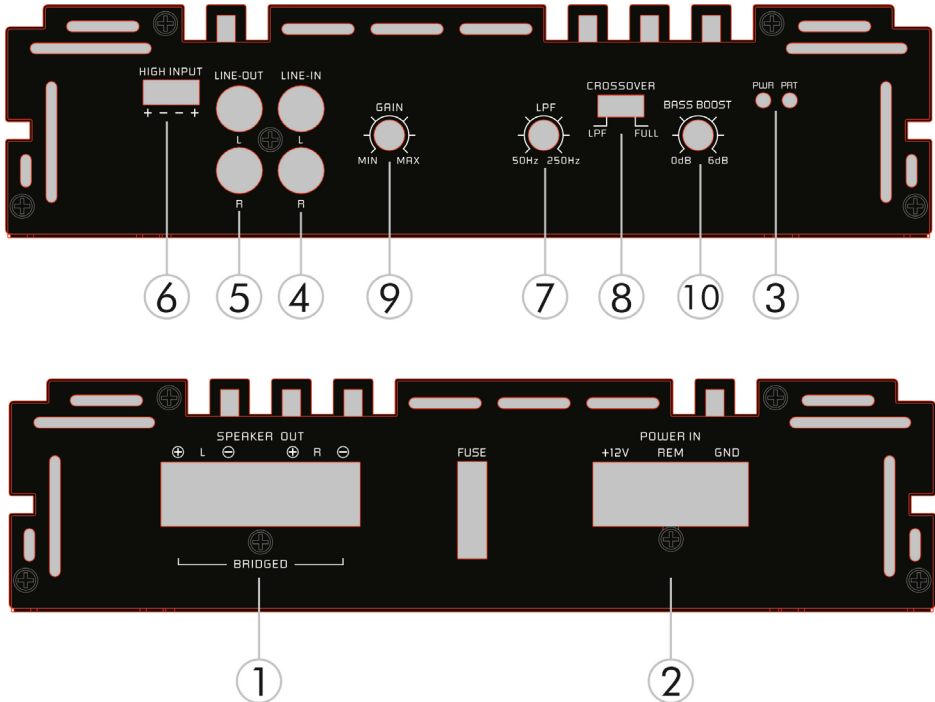
- a. Select a suitable location that is convenient for mounting, is accessible for wiring and has ample room for air circulation and cooling.
- b. Use the amplifier as a template to mark the mounting holes, remove the amplifier.

Warning

Choose a mounting position where all eclectic 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	Speaker terminals	For connection of the speakers
2	Power terminals	GND -> Ground connection REM -> Remote antenna terminal [Not for use with High level inputs (6)] BATT -> +12 Volt
3	Status indication	GREEN – OK RED – Error
4	RCA inputs	Terminal for connection of the RCA wires. To avoid failure, please use high quality RCA wires. IMPORTANT! Do not use the High level inputs and the Cinch inputs parallel, this can damage the amplifier. Use either the Cinch OR the High Level inputs.
5	RCA output	To connect an additional amplifier.
6	High Level inputs	These inputs must be used if your head unit is not equipped with a Low Level Cinch output. Connect this input to the speaker outputs of your head unit. The amplifier automatically turns on as soon as a signal is received (Auto On). The remote connection of the Power-Terminal (2) won't be used. IMPORTANT! Do not use the High level inputs and the Cinch inputs parallel, this can damage the amplifier. Use either the Cinch OR the High Level inputs.
7	Low Pass controller	Only frequencies from 50Hz to 250Hz will be reproduced (depending on the LPF filter controller position). Set the filter switch to „LOW“ position. Adjust the variable LPF frequency to the desired frequency using the controller.
8	Mode switch	Adjust the crossover for the chosen utilization. LPF – Only bass frequencies (below 50Hz - 250Hz) will be reproduced. FULL – All frequencies will be reproduced.
9	Gain level controller	With this controller you can adjust the input sensitivity.
10	Bass Boost controller	For adjusting a Bass Boost at 45 Hz from 0 – 12 dB

Turning on the amplifier

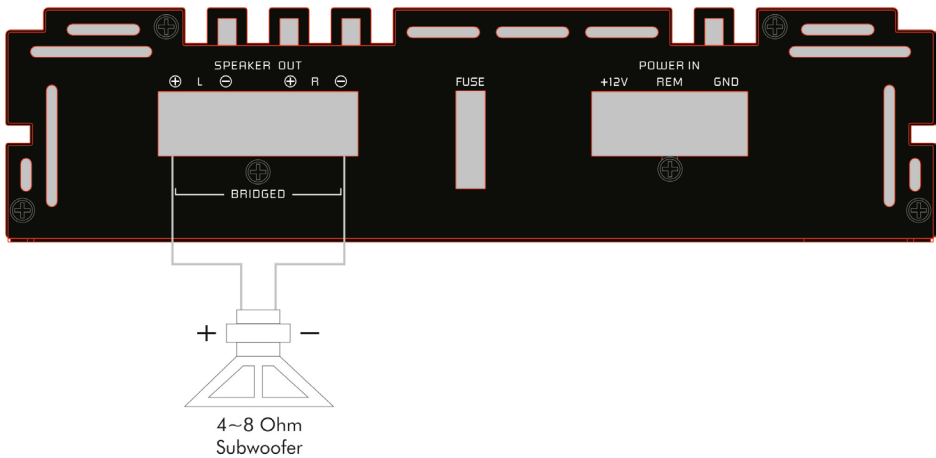
The amplifier automatically turns on a few seconds after you turn on your radio.

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 the maximum, distortion-free listening level.

Mono wiring



Lautsprecher Impedanz / Speaker impedance / Impédance haut parleur

4 ~ 8 Ohm

Specifications

Model	GZBA 2.300
Type	2 Channel Class A/B
RMS Power @ 4 Ω (14.6V)	2 x 60 W
RMS Power @ 2 Ω (14.6V)	2 x 80 W
RMS Power @ 4 Ω Gebrückt (14.6V)	1 x 200 W
MAX Power @ 4 Ω Gebrückt (14.6V)	1 x 300 W
Lowpass	50 – 250 Hz
Bass Boost	0 – 6 dB (45 Hz)
Frequency response	5 Hz – 30 KHz
Input sensitivity	150 mV – 5 V
Auto-On @ High Input	✓
Fuse	1 x 20A
Dimensions / heatsink only W x H x L (mm/inch)	210 x 52 x 200 / 8.27" x 2.05" x 7.88"
Dimensions / overall W x H x L (mm/inch)	210 x 52 x 230 / 8.27" x 2.05" x 9.06"

Model	Subwoofer
Typ	30 cm / 12" Front-Basstunnel
Belastbarkeit	300 W
Impedanz	4 Ohm
Volumen netto	37 Liter / 1.31 cu.ft
Dimensions L x H x D (mm-inch)	440 x 365 x 390 / 300 mm 17.32" x 14.37" x 15.35" / 12"

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 + 12 Volt connection Check ground connection
	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
Amp turning off at medium / high volume	Check speaker load impedance	Be sure proper speaker load impedance recommendations are observed (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 Switch Headunit off Check the installation
	Speaker wires short	Separate speaker wires and insulate

Die Gewährleistung entspricht der gesetzlichen Regelung. Eine Rücksendung kann nur nach vorheriger Absprache und in der Originalverpackung erfolgen. Bitte unbedingt einen maschinell erstellten Kaufbeleg und eine Fehlerbeschreibung beilegen. Von der Gewährleistung ausgeschlossen sind Defekte, die durch Überlastung, unsachgemäße Behandlung oder bei Teilnahme an Wettbewerben entstanden sind. Wir behalten uns das Recht vor, zukünftig nötige Änderungen oder Verbesserungen an dem Produkt vorzunehmen ohne den Kunden darüber zu informieren.

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.

Ground Zero GmbH

Erlenweg 25, 85658 Egmatung, Germany

Tel. +49 (0)8095/873 830 Fax -8310

www.ground-zero-audio.com

