

GROUND ZERO®

GERMAN ENGINEERING

GZ BASS KIT 12.300X-II

Owner's manual

(AWV4.1)

Features

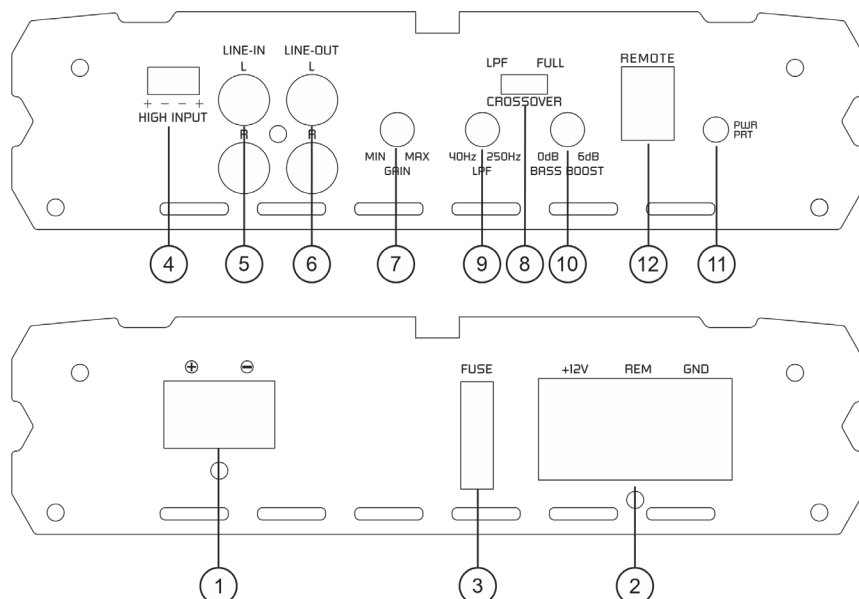
- High-quality vented subwoofer
- Efficient Aero ventilation port
- 30 cm / 12" subwoofer
- IMPP cone with 3D-honeycomb structure
- GZ design push terminal
- Mono class A/B amplifier
- Stereo RCA input
- Stereo high-level input with auto-on function
- Adjustable input sensitivity
- Adjustable low pass filter
- Adjustable bass boost control
- Wired remote control for LPF mode
(GZTA Bassremote available separately)
- Owner's manual enclosed

General installation note

- As a precaution, it is recommended to disconnect the vehicles battery before mounting the amplifier. (Note: For new vehicles, disconnecting the battery might cause various errors in your vehicle's electric system that can be cleared only by authorized personnel of your vehicle's manufacturer!)
- The power supply wire (+12 V) has to be protected within max. 20 cm / 8" by a main fuse holder with a fuse value matching the recommendation for your amplifier or internal fuse value
(Note: If there is more than one amplifier connected using this power wire, the main fuse value must be equal to the sum of the recommended fuses of all connected devices. However, make sure the diameter of your power wire will be sufficient for the required current!)
- If necessary, replace a defective fuse by a fuse with identical quality and value
- Never drill a hole to the vehicle's gas tank or brake lines, to wirings or any other important vehicle parts!
- Never pass wires over sharp edges or vehicle parts to avoid any kind of damage
- Keep the wiring away from the antenna and electronic devices contributing to radio reception
- Lay the power supply wiring always separated from speaker wiring to avoid disturbance
- The amplifier contains a temperature protection circuit that turns the device off in case of overheating. After a certain cooling time, it will turn on automatically. To avoid heat build-up, sufficient air supply for cooling must be provided. Never cover the surface of the amplifier's heatsink entirely
- The amplifier should not be mounted onto a vibrating part or surface such as a subwoofer enclosure. This might lead to malfunction due to loosened electrical parts inside the amplifier.
- This amplifier has got a high-level input option, however if a pre-amplified output (RCA) is available (from head unit), it is strongly recommended to make use of it.

GZ BASS KIT 12.300X-II

Connections and controls



1	Speaker terminal	To connect the speaker wire (of the subwoofer)
2	Power terminal	GND Ground connection REM Remote connection (not necessary when high-level input is used) BATT + 12 Volt connection
3	Fuse	Replace a defective fuse by a fuse with identical quality and value (30A)
4	High-level input	To connect your head unit (if not equipped with a low-level RCA output) Connect this input to the speaker outputs of your head unit. The amplifier automatically turns on (Auto On). The remote needs not to be connected IMPORTANT! Do not use the high-level input and the RCA input simultaneously. This may lead to serious damage of the amplifier. Use either the RCA or the high-level input, only
5	RCA input	To connect the low-level input signal (RCA) IMPORTANT! Do not use the high-level input and the RCA input simultaneously. This may lead to serious damage of the amplifier. Use either the RCA or the high-level input, only
6	RCA output	To connect an additional amplifier (RCA)
7	Gain (level) control	To adjust the input sensitivity
8	Mode switch	To select the crossover mode LPF Low frequencies (below selected crossover point) will be reproduced FULL Full range reproduction
9	Low pass control	To set the crossover frequency. Set the filter switch to the LOW position. Adjust the variable LPF frequency to the desired frequency using the controller
10	Bass Boost control	To adjust the low bass increase (Bass Boost) at 45 Hz (0 – 6 dB)
11	Status indication	GREEN Amplifier is in operation mode RED Amplifier is in protection mode
12	Remote control connector	To connect the separately available remote control GZTA Bassremote

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Subwoofer specifications

Model	GZBK 12XBR-II (subwoofer)
Type	30 cm / 12" vented subwoofer (with Aero port)
Power handling	300 W
Impedance	4 ohms
Volume (net)	40 Liter / 1.41 cu.ft.
Dimensions W x H x D at top/bottom (mm/inch)	520 x 360 x 250 / 350 mm - 20.47" x 14.17" x 9.84 / 13.78"

Amplifier specifications

Model	GZBA 1.300X
Type	Mono class A/B amplifier
Power output @ 4 ohms (14.6V) / RMS	1 x 200 W
Power output @ 4 ohms (14.6V) / max	1 x 300 W
Low pass filter	40 – 250 Hz
Bass Boost	0 – 6 dB (@ 40 Hz)
Frequency response	15 Hz – 20 kHz
Input sensitivity	200 mV – 6.7 V
Auto-On @ High-level input	✓
Fuse	1 x 30A
Dimensions / heatsink only W x H x L (mm/inch)	180 x 53 x 236 / 7.09" x 2.09" x 9.29"

Trouble shooting guide

Symptoms	Inspect	Check
No sound	Is the POWER LED illuminated?	Check the fuses of the amplifier Make sure that remote lead is connected Check the +12 Volt connection Check the ground connection
	Is the diagnostic LED illuminated?	Check for speaker short or overheating
Amp not switching on	Power and ground wiring	Check the power and ground wiring
	Remote wire	Check the connection of the head unit
Amplifier switches off at medium or high levels	Check speaker load impedance	Make sure that the recommended speaker load impedance is observed
Protection LED is on	Temperature shut down	Turn the head unit's level down Switch the head unit off Check the installation
	Speaker wires short	Separate and insulate the speaker wires

Verified with KLIPPEL®



GROUND ZERO is using the worldwide accepted **KLIPPEL® R&D Analyzer KA3** measurement system for speaker development during the German in-house development as well as for QC reporting for most production lines at the factory. The results of LPM and LSI measurements are the basis for evaluating and verifying further development enabling to offer perfectly working products in any practical application. Continuous and advanced trainings for development employees ensure the highest possible qualification. KLIPPEL® is a registered trademark of KLIPPEL GmbH

Developed with LOUDSOFT



Ground Zero uses simulation software **FINECone**, **FINEMotor** and **FINESuspension** for development. These tools allow for optimal design of cone shapes, cone materials, magnet drives, surrounds and spiders through FEM calculations. They are part of a modern loudspeaker development. LOUDSOFT is a product of Loudsoft Ltd. ApS Denmark

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Terms of warranty

The limited warranty for this product is covered by Ground Zero's local distribution partners and their terms and conditions. For further information contact your local retailer or distributor.

Safety instructions

Safety instructions: Keep all parts of the content and the packaging away from children and pets to avoid accidents and the risk of suffocation. Permanently extreme levels of over 85 dB can lead to irreparable damage to the hearing. Music systems with high amplifier output power can reach levels of 130 dB or more. Extreme levels can also hinder the perception of important traffic noises and distract from what is happening on the road. Ground Zero GmbH and its sales partners expressly assume no responsibility for hearing damage, physical damage or any damage to property or consequential damage resulting from improper or careless use or improper installation of its products. In particular, any claims are forfeited through the use under competitive conditions.

Manufacturer's declaration: Herewith Ground Zero GmbH declares that this product complies with the directive 2014/30/EU (EMC) and further declares that this product is in conformity with the rules of the EU directives (including all applicable amendments) 2011/65/EU RoHS2 and 2001/95/EC General Product Safety directive. The full text of the Declaration of Conformity (EU) is available at the following internet address: www.ground-zero-audio.com. Electronic products contain valuable raw materials and must not be disposed of with normal household waste. At the end of its service life, please bring the device to your local recycling facility.

Respect the Music



Listening to music can be emotional, impressive, relaxing or enjoyable. At that, it doesn't really matter what kind of music is the personal favorite, whether it's Instrumental, Jazz, Electro, Latin, Classic, Rock or any other music direction. However, audio reproduction quality at each desired volume is elementary. Some music styles require higher levels while others prefer the soft tones.

GROUND ZERO considers all the different wishes of customers during the development of new products. Along with this, the target is to create the most realistic sound, to transfer the soul of the music and the intention of the performer. Summarized to one phrase: RESPECT THE MUSIC!



GROUND ZERO products are developed in Germany
GROUND ZERO - international sponsor



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