

# GROUND ZERO<sup>®</sup>

## GERMAN ENGINEERING

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# IRIDIUM-SERIES AMPLIFIER

## OWNER'S MANUAL

# GZIA 1.1450DX-II

### Features

- High efficient class D amplifier
- 1 Ohm stable mono
- High-level input with Auto-On
- Up to 12 dB adjustable bass boost (@45 Hz)
- Phase shift switch (0°/180°)
- Adjustable input sensitivity
- Bass remote control
- Thermal / short circuit / overload protection

## Recommended wiring

|                               | GZIA 1.1450DX-II                  |
|-------------------------------|-----------------------------------|
| <b>Speaker wires</b>          | min 2.5 mm <sup>2</sup> / 13 AWG  |
| <b>Power supply wires</b>     | min 25.0 mm <sup>2</sup> / 3 AWG  |
| <b>High-level input wires</b> | min 1.00 mm <sup>2</sup> / 18 AWG |
| <b>Remote wire</b>            | min 0.75 mm <sup>2</sup> / 20 AWG |

## Mounting instructions

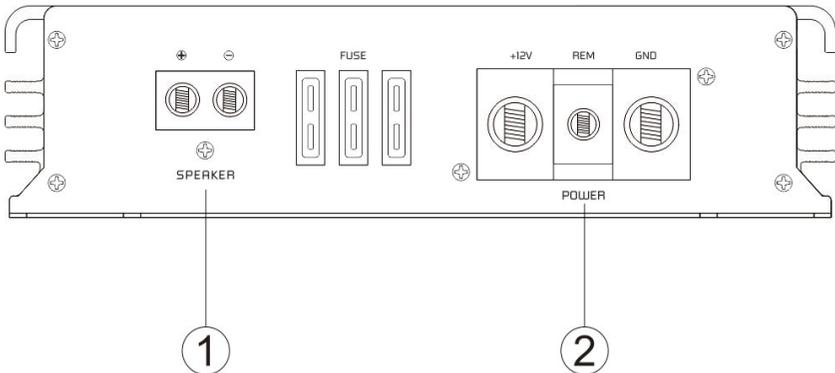
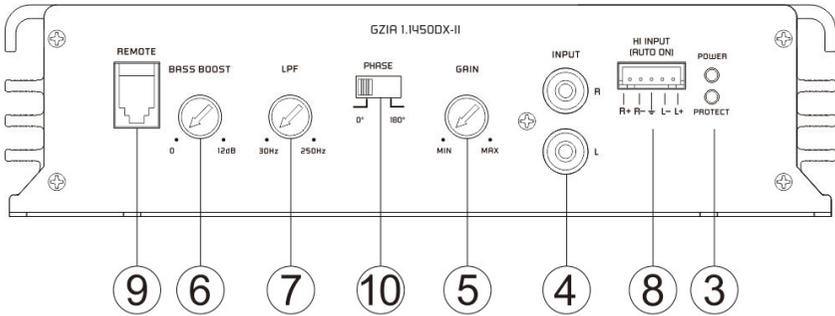
- As a precaution, it is recommended to disconnect the vehicles battery before mounting (also note the vehicles manuall)
- The power supply wire (+12 V) has to be protected within max. 20 cm / 8" by a main fuse holder with matching fuse value (Main fuse value has to be equal to the sum of values of the fuses of each connected device)
- If necessary, replace a defective fuse with the identical value only
- Never drill a hole to the vehicles gas tank or brake lines, to wirings or any other important vehicle part!
- Never pass wires over sharp edges or vehicle parts
- Keep the wiring away from the antenna and electronic devices contributing to radio reception
- Lay the power supply wiring always separated from speaker wiring
- The amplifier contains a temperature protection circuit that turns the device off in case of overheating. After a cooling time, it will turn on again automatically. To avoid heat buildup, sufficient air supply for cooling must be provided. Never cover the surface of the heatsink entirely.
- The amplifier should not be mounted on a strongly vibrating part or surface (e.g. subwoofer enclosure)
- If a pre-amplified output (RCA) is available ( at the head unit), it is recommended to make use of them

### WARNING !

Powerful car audio systems are able to create extremely high SPL similar to real live concert levels. Permanent exposure to excessively high sound levels may cause damage to or loss of the hearing.

Furthermore, operation of a motor vehicle while listening to audio equipment at high volume levels may impair your ability to concentrate on road traffic and external sounds such as horns, warning signals or emergency vehicles. In the interest of general and own safety, it is recommended to listen to music at appropriately low volume levels while driving.

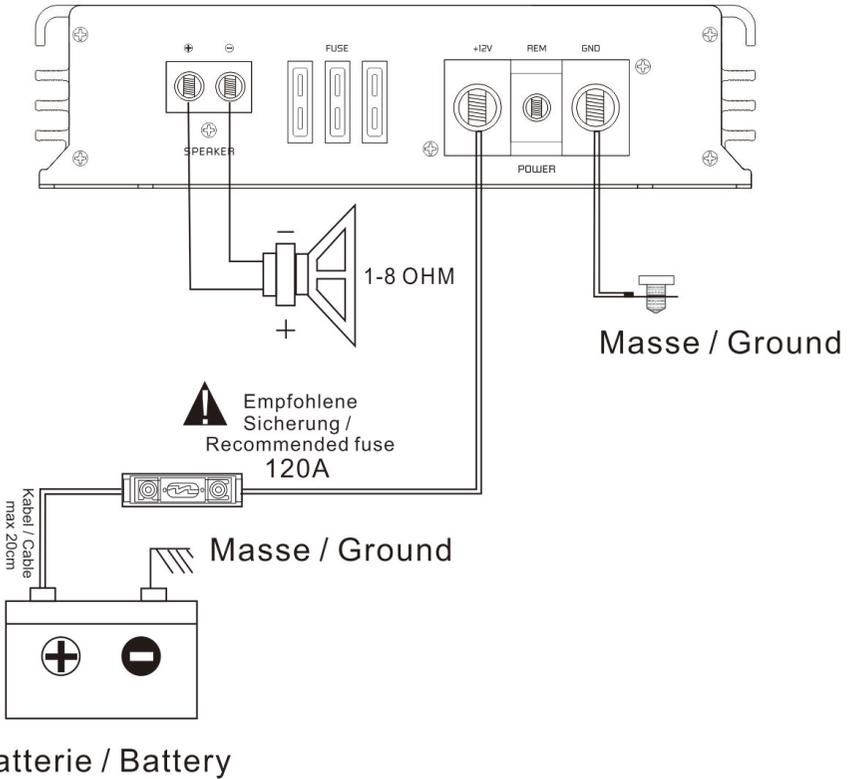
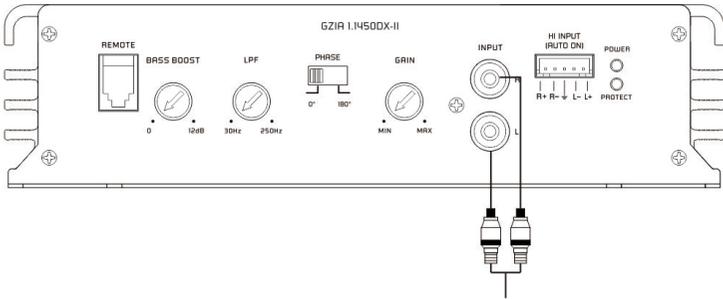
# Controls & Features – GZIA 1.1450DX-II



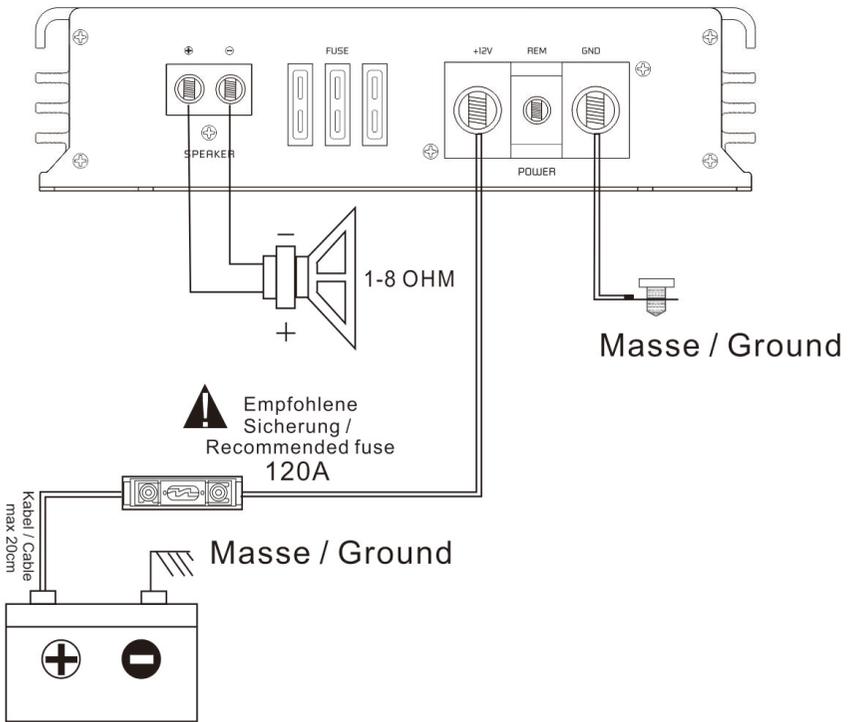
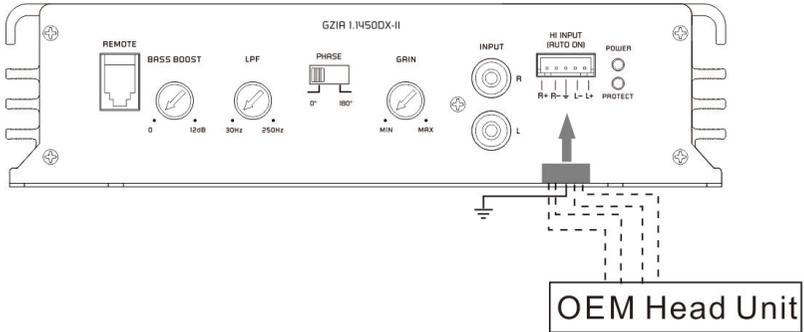
## Controls & Features GZIA 1.1450DX-II

|    |                               |  |
|----|-------------------------------|--|
| 1  | <b>SPEAKER terminal</b>       | Speaker connection   |
| 2  | <b>POWER supply terminal</b>  | GND -> ground terminal<br>REM -> remote wire / not to be used with high-level input (8)<br>BATT+ -> +12 Volt wire from battery terminal  |
| 3  | <b>Status LEDs</b>            | POW -> green -> ok (correct operation)<br>PROT -> red -> error / protection  |
| 4  | <b>INPUT (RCA input)</b>      | Input sockets to connect RCA wires - to avoid any malfunction, it is recommended to use only high quality RCA cables<br><u>Cable recommendation:</u> GCZZ X-TP series (available lengths 0.57 / 1.14 / 3.14 / 5.49 m)<br>IMPORTANT:<br>High-level and RCA inputs should <b>never</b> be used simultaneously! This may cause serious damage to the amplifier.   |
| 5  | <b>GAIN control</b>           | Controller to adjust the input sensitivity   |
| 6  | <b>BASS BOOST control</b>     | Controller to adjust the bass boost level ( 0 to +12 dB at 45 Hz)  |
| 7  | <b>LOW-PASS (LPF) control</b> | To adjust the required crossover point. Frequencies above the selected crossover point will be filtered (30 Hz to 250 Hz)  |
| 8  | <b>HIGH LEVEL input</b>       | Instead of using the RCA input (4), the high-level input can be used. To connect the speaker output of the head unit directly. If used, the amplifier turns on automatically (Auto-On)<br>The REM (remote) input of the power supply terminal remains unused<br>IMPORTANT:<br>High-level input and RCA inputs should <b>never</b> be used simultaneously; this may cause serious damage to the amplifier |
| 9  | <b>REMOTE socket</b>          | To connect the bass remote control   |
| 10 | <b>PHASE CONTROL switch</b>   | To select the phase (0° / 180°) of the connected subwoofer in relation to further speakers (e.g. front speakers)   |

# RCA input wiring – GZIA 1.1450DX-II



# Highlevel input wiring – GZIA 1.1450DX-II



Batterie / Battery

## Specifications

| Model   | GZIA 1.1450DX-II                |
|---|---------------------------------|
| Amplifier type                                    | Mono class D                    |
| RMS Power @ 4 $\Omega$<br>CEA Standard CEA-2006-A | 400 W (1% THD+N)                |
| Max Power @ 4 $\Omega$                            | 500 W (10% THD+N)               |
| RMS Power @ 2 $\Omega$<br>CEA Standard CEA-2006-A | 750 W (1% THD+N)                |
| Max Power @ 2 $\Omega$                            | 850 W (10% THD+N)               |
| RMS Power @ 1 $\Omega$<br>CEA Standard CEA-2006-A | 1250 W (1% THD+N)               |
| Max Power   | 1450 W (10% THD+N)              |
| Damping factor                                    | > 100                           |
| Low pass filter                                   | 30 Hz – 250 Hz (12 dB/Oct)      |
| Bass boost  | 0 ~ +12 dB (45 Hz)              |
| Frequency response                                | 10 Hz – 250 Hz<br>( $\pm$ 1 dB) |
| Input sensitivity                                 | 200 mV – 6 V<br>( $\pm$ 5%)     |
| Bass remote                                       | ✓                               |
| Fuse(s)   | 3x 40A                          |
| Dimensions<br>w x h x l (mm)                      | 192 x 49 x 360                  |
| Dimensions<br>w x h x l (inch)                    | 7.56 x 1.93 x 14.17             |

## Trouble shooting guide

| Symptoms                                 | Check / Cause                           | Action  |
|--|---|---|
| No audible sound                         | Does the POW LED turn to green?         | Check protection fuse(s) of the amplifier<br>Check remote wire connection (RCA input mode)<br>Check +12 Volt power supply wire connection<br>Check ground wire connection |
|  | Did the PRO LED turned to red?          | Check for speaker short or amplifier overheating  |
| Device does not turn on                  | Power supply of the amplifier?          | Check power wire or connections   |
|  | Remote wire powered? (RCA input mode)   | Check remote wire connection to the head unit   |
| No sound on one channel                  | Speaker wiring undamaged?               | Check for short circuit or open connections   |
|  | Input signal on both RCA leads?         | Reverse left and right RCA inputs to check the audio input signal   |
| Device turns off at medium / high volume | Load impedance of each speaker correct? | Check if each speaker load impedance matches the technical specifications of the amplifier  |
| Status LED turned on red                 | Temperature protection circuit active   | Decrease head units volume / wait for cooling   |
|  | Speaker wires short / speaker damaged   | Check speaker / wires and insulate if necessary   |

### 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.

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