



GROUND ZERO IRIDIUM SERIES Mono Class D Amplifier Owner's Manual

[Home](#) » [Ground-Zero](#) » GROUND ZERO IRIDIUM SERIES Mono Class D Amplifier Owner's Manual 

GROUND ZERO IRIDIUM SERIES Mono Class D Amplifier



Contents

- [1 Features](#)
- [2 General mounting instructions](#)
- [3 Specifications](#)
- [4 Controls & Features](#)
- [5 Trouble shooting guide](#)
- [6 Terms of warranty](#)
- [7 Safety instruction / Manufacturer's declaration](#)
- [8 Documents / Resources](#)
 - [8.1 References](#)
- [9 Related Posts](#)

Features

- High-quality class D amplifier
- 1 ohm stable (2 ohms stable in linked mode)
- Variable low pass filter
- Phase switch
- Optional linked mode (for 2 amplifiers)
- High-level input with auto-on function
- Adjustable input sensitivity
- Turn-on delay
- Thermal protection
- Short protection
- Overload protection
- Bass level remote control included

General mounting instructions

- 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 service partners of your vehicle's manufacturer! Please ask your service partner first before disconnecting the battery!
- 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
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 enough for the required current!
- If necessary, replace a defective fuse by a fuse with identical quality and value
- Never drill holes to the vehicle's gas tank, brake lines, to wirings or any other important vehicle parts!
- Never pass wires over sharp edges or vehicle parts due 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, enough air supply for cooling must be

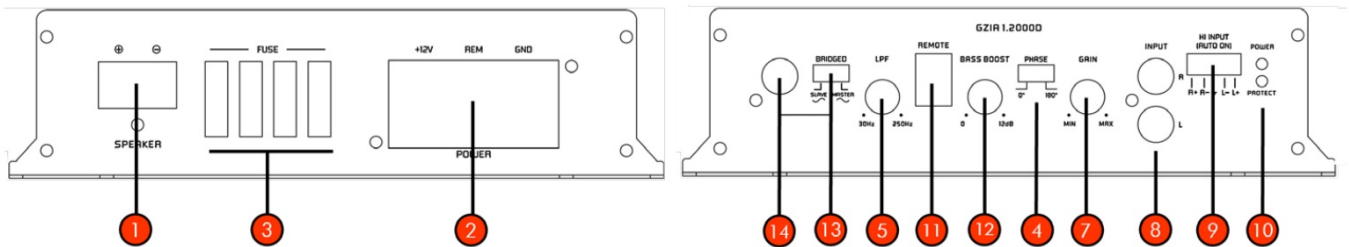
provided. Never cover the surface of the amplifier's heatsink entirely

- The amplifier should **NEVER** 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.
- Some amplifiers offer a high-level input option, however if a pre-amplified output (RCA) is available (at the head unit), it is strongly recommended to make use of them.

Specifications

Model	GZIA 1.2000D
Amplifier type	Mono class D
RMS Power @ 4 Ω CEA Standard CEA-2006-A (@100 Hz)	750 W (1% THD+N)
RMS Power @ 2 Ω CEA Standard CEA-2006-A (@100 Hz)	1300 W (1% THD+N)
RMS Power @ 1 Ω CEA Standard CEA-2006-A (@100 Hz)	1800 W (1% THD+N)
RMS Power @ 2 Ω in linked mode (2 amplifiers)	3600 W (1% THD+N)
Max. Power @ 1 Ω CEA Standard CEA-2006-A (@100 Hz)	2000 W (10% THD+N)
Low pass filter	30 Hz – 250 Hz (12 dB/oct)
Frequency response	10 Hz – 250 Hz (\pm 1 dB)
Total harmonic distortion (THD+N)	< 0.09%
Damping factor	> 100
Input sensitivity	200 mV – 6 V
Rec. speaker wire	\geq 6 mm ² / 10 AWG
Rec. power wire	\geq 53 mm ² / 0 AWG
Fuse(s)	4x 40A
Dimensions w x h x l (heatsink / overall)	192 x 49 x 382/410 mm
Dimensions w x h x l (heatsink / overall)	7.56 x 1.93 x 15.04/16.14"

Controls & Features



1	Speaker terminal	To connect the speaker wires – min. load 1 ohm
2	Power terminal	+12V: To be connected to the positive terminal of the battery REM: To be connected to the remote output of the head unit* (*not required in high-level mode) GND: To be connected to the vehicle's ground (or directly to the negative terminal of the battery)
3	Fuse(s)	If necessary to replace a defective fuse, its strongly recommended to use a fuse with the identical value
4	Phase switch	To set the required phase (0° / 180°)
5	Low pass filter	To adjust the required crossover point. Frequencies above the selected crossover point will be filtered (30 Hz to 250 Hz)
7	Sensitivity control	Controller to adjust the input sensitivity
8	Line input (RCA)	Input sockets to connect RCA wires Important note: High-level and RCA inputs should never be used simultaneously! This may cause serious damage to the amplifier

9	High-level input	<p>Head units without RCA pre-amplifier output signal, can be connected using the high-level input to connect the speaker output of the head unit directly. If used, the amplifier turns on automatically (auto-on feature) The remote input of the power supply terminal remains unused</p> <p>Important note: High-level and RCA inputs should never be used simultaneously! This may cause serious damage to the amplifier</p>
10	Status indication	<p>POWER (green) ok (correct operation) PROTECT (red) error (protection mode)</p>
11	Remote wire socket	To connect the wired remote control
12	Bass Boost control	To adjust the bass boost level (0 to +12 dB @ 45 Hz)
13	Linked mode switch	<p>When using two identical amplifiers in linked mode the switch at one of the amplifiers must be set to the MASTER position, while the other amplifier must be set to the SLAVE position. Connect the input signal to the MASTER amplifier and adjust settings at this amplifier, only</p>
14	Link mode socket	To connect two identical amplifiers for linked mode using a mono RCA cable

Trouble shooting guide

Symptoms	Check / Cause	Action
No audible sound	Does the POW LED turn to green?	Check protection fuse(s) of the amplifier (harness) Check remote wire connection (RCA input mode) Check +12 Volt power supply wire connection Check ground wire connection
	Did the PROTECT 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 each RCA lead?	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 unit's 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 regional distribution partners and their terms and conditions. For further information contact your local retailer or distributor.

Safety instruction / Manufacturer's declaration

Safety Instructions: Do not expose the device to extreme temperatures, fire, high humidity or direct contact with liquids. Do not use the device if it has been damaged or exposed to liquids. Keep the device, packaging and accessories away from children and pets to prevent accidents and suffocation.

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.



GROUND ZERO products are engineered in Germany
GROUND ZERO – international sponsor




Ground Zero GmbH
Erlenweg 25, 85658 Eggenheim, Germany
Tel. +49 (0)8095/873 830 **Fax** -8310
www.ground-zero-audio.com

GROUND ZERO®

GERMAN ENGINEERING

Documents / Resources

	<p>GROUND ZERO IRIDIUM SERIES Mono Class D Amplifier [pdf] Owner's Manual IRIDIUM SERIES Mono Class D Amplifier, IRIDIUM SERIES, Mono Class D Amplifier, Class D Amplifier, D Amplifier, Amplifier</p>
---	--

References

-  [Ground Zero Audio – Car Audio Products](#)