

4-CHANNEL AMPLIFIER

GZCS A-4.80

Owner's Manual

Features

- High-efficient class D mini amplifier
- Very compact dimensions
- 2 ohms stable in stereo mode
- 4 ohms stable in bridged mode
- High-level input with auto-on feature
- Adjustable crossover filters
- Adjustable input sensitivity
- Turn-on delay
- Thermal protection
- Compatible to GZCS ISO-Connect (available separately)

Mounting instructions

- As a precaution, it is recommended to disconnect the vehicle's 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.

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.

Recommended wiring

Speaker wires	min 1.5 mm ² / 15 AWG
Power supply wires	min 4.0 mm ² / 12 AWG

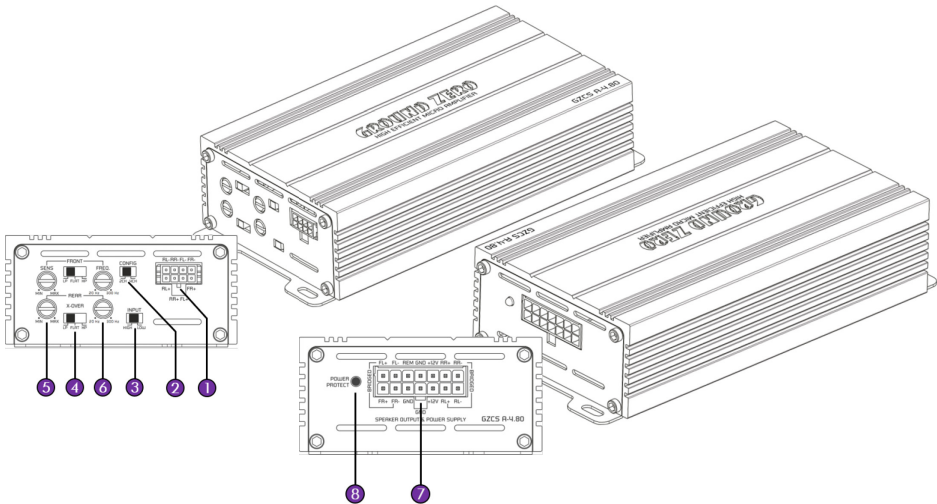


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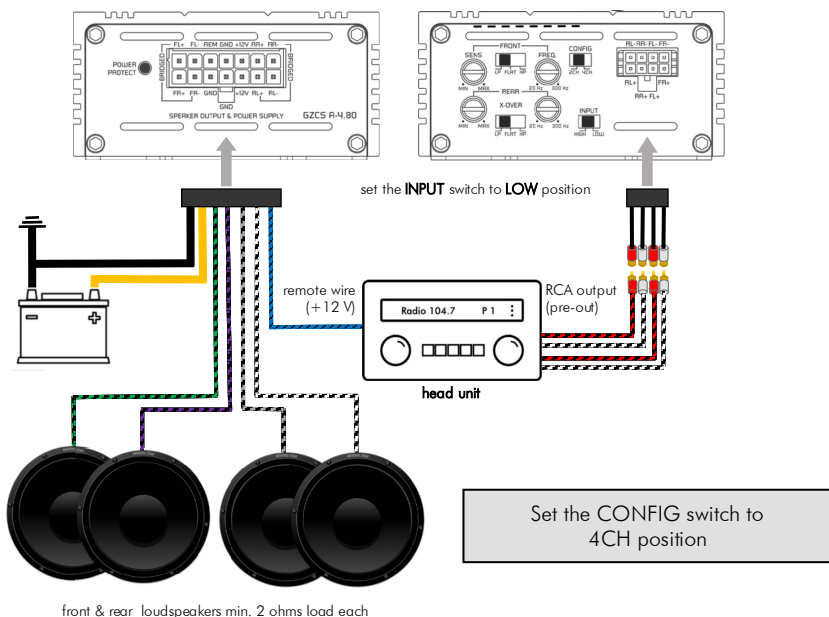
Controls & Features



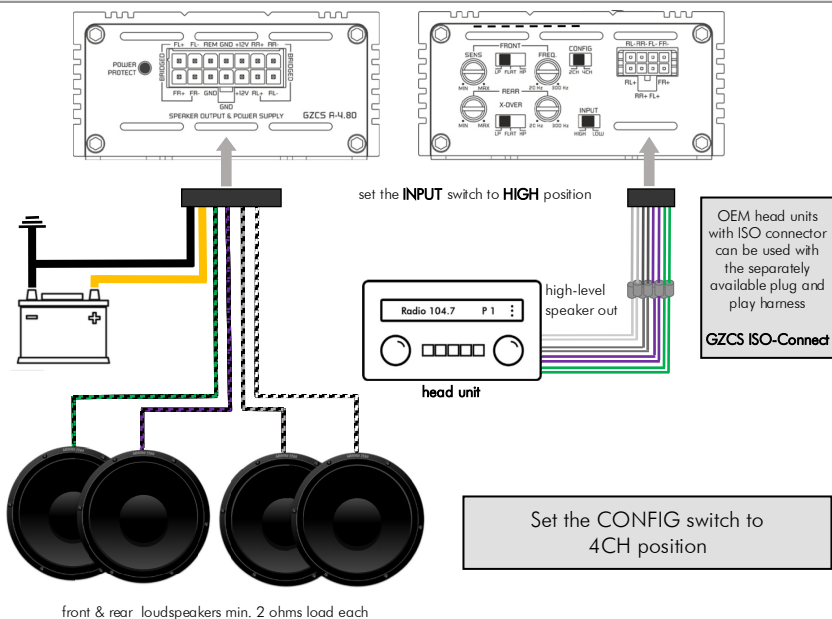
1	Line / High-Level Input	Use the provided RCA harness to connect RCA wires or the high-level input harness to connect a head unit without RCA pre-out. Head units with ISO connector require a separately available harness* Set the input mode switch (3) accordingly. Using a high-level signal (speaker wires), the amplifier turns on automatically. The remote input cable remains unused
2	Configuration switch	To select the operation mode of the amplifier 4CH Using the amplifier in 4-channel stereo mode 2CH Using the amplifier in 2-channel (bridged) mode
3	Input mode switch	To select the input mode Low RCA input from the head unit High High-level (speaker wire) input from the head unit
4	Crossover mode switch	To setup the crossover for the required use of the amplifier FLAT entire frequency range will be reproduced HP only mid/high frequencies will be reproduced* LP only low frequencies will be reproduced* * according to the selected crossover point
5	Sensitivity control	Controller to adjust the input sensitivity (Front / Rear)
6	Crossover control	To adjust the required crossover point between 20 and 300 Hz
7	Speaker output & power connector	Speaker harness output / power wire harness connector
8	Status LEDs	POWER (green) ok (correct operation) PROTECT (red) error (protection mode)

* GZCS ISO-Connect available separately

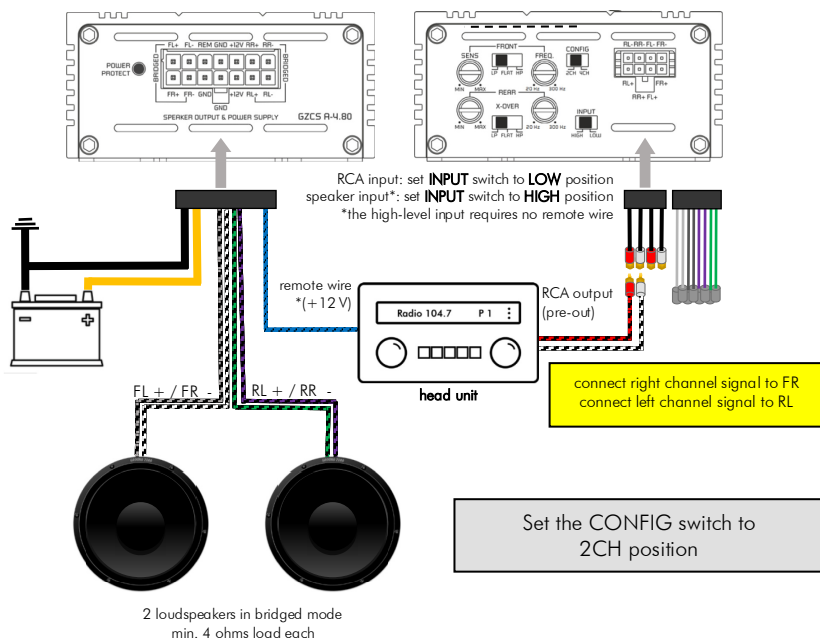
4-channel mode RCA input wiring



4-channel mode high-level input wiring



2-channel mode (bridged) wiring



Specifications

Model	GZCS A-4.80
Amplifier type	4 channel class D
RMS Power @ 4 Ω CEA Standard CEA-2006-A	4 x 60 W (1% THD+N)
RMS Power @ 2 Ω CEA Standard CEA-2006-A	4 x 80 W (1% THD+N)
RMS Power @ 4 Ω in bridged mode CEA Standard CEA-2006-A	2 x 160 W (1% THD+N) 2 x 200 W (10% THD+N)
Low pass filter	20 Hz – 300 Hz (12 dB/oct)
High pass filter	20 Hz – 300 Hz (12 dB/oct)
Frequency response	10 Hz – 35 kHz (\pm 1 dB)
Input sensitivity	250 mV – 7.5 V
Fuse(s)	1x 30A in-line fuse
Dimensions w x h x l (heatsink / overall)	82 x 40 x 151/171 mm
Dimensions w x h x l (heatsink / overall)	3.32 x 1.57 x 5.94/6.73"

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



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!

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