

COMPETITION SERIES AMPLIFIER

OWNER'S MANUAL

GZCA 8.0K-SPL

Features

- 1 Ohm stable mono wide range amplifier
- High efficient class D technology
- Status LED monitoring
- Illuminated GZ logo
- Up to 12 dB adjustable bass boost (@ 35 to 55 Hz)
- Adjustable high-pass filter
- Adjustable low-pass filter
- Adjustable input sensitivity
- Thermal / short circuit / overload protection

Recommended wiring

	GZCA 8.0K-SPL	
Speaker wires	min 4.0 mm ² / 11 AWG	
Power supply wires	min 50.0 mm ² / 0 AWG	
Remote wire	min 0.75 mm ² / 20 AWG	

Mounting instructions

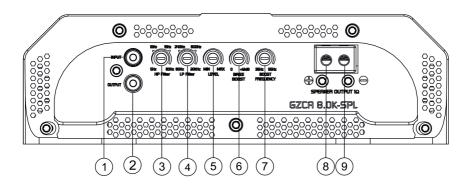
- As a precaution, it is recommended to disconnect the vehicles battery before mounting (also note the vehicles manual!)
- The power supply wire (+12 V) has to be protected within max. 20 cm / 8" by a main fuse holder with matching fuse value (Main fuse value has to be equal to the sum of the recommended fuses of all connected devices to the power wire)
- 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 build-up, 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)
- 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.

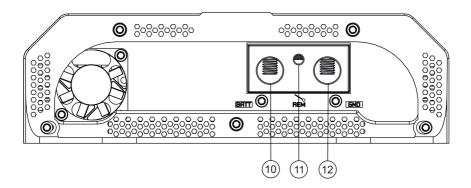
WARNING!

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.

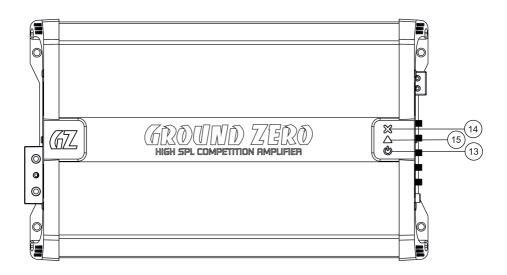
Furthermore, operation of a motor vehicle while listening to audio equipment at high volume levels may impair your ability to concentrate on road traffic and external sounds such as horns, warning signals or emergency vehicles. In the interest of general and own safety, it is recommended to listen to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

Controls & Features - GZCA 8.0K-SPL



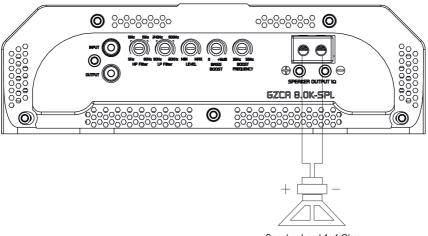


Controls & Features – GZCA 8.0K-SPL

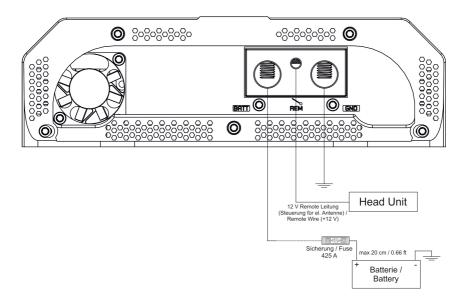


1	INPUT socket	to connect RCA wire* from the audio source / head unit	
2	OUTPUT socket	to connect another amplifier /provides the original audio signal	
3	FILTER HP control	to adjust the required high pass crossover point from 5 Hz to 80 Hz	
4	FILTER LP control	to adjust the required low pass crossover point from 80 Hz to 20 KHz	
5	LEVEL control	to adjust the input sensitivity	
6	BASS BOOST control	to adjust the bass boost level from 0 dB to +12 dB	
7	BOOST FREQ. control	to adjust the bass boost frequency from 35 Hz to 55 Hz	
8	OUTPUT terminal	(+) positive speaker wire connection	
9	Corror terminal	(-) negative speaker wire connection	
10		+BAT -> to the battery connection /+12 V	
11	POWER supply terminal	REM -> to the remote output of the head unit	
12		GND -> to the ground connection	
13		◆ POWER indication sign	
14	STATUS signs	★ PROTECTION indication sign	
15		▲ CLIPPING indication sign	

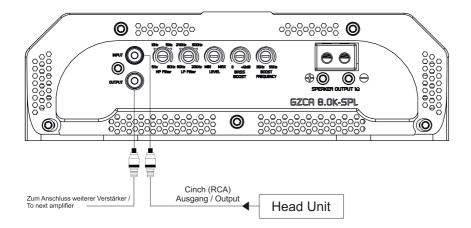
 $^{^{*}}$ To avoid any kind of malfunction, it is strongly recommended to use high quality RCA wires!



Speaker Load 1~4 Ohm



Signal Input wiring – GZCA 8.0K-SPL



Specifications

Model	GZCA 8.0K-SPL	
Amplifier type	Mono wide range class D	
RMS Power @ 2 Ω measured @ 14.4 V	4480 W (0.1% THD+N)	
RMS Power @ 1 Ω measured @ 14.4 V	8960 W (0.1% THD+N)	
RMS Power @ 1 Ω measured @ 12.6 V	8000 W (0.1% THD+N)	
S/N ratio	73 dB (LPF 15 KHz / nominal power)	
THD+N	0.1 % (@ nominal power / 100 Hz / LPF 15 KHz)	
Damping factor	>1000 (@100 Hz / nominal power)	
Low pass filter	80 Hz ~ 20 KHz	
High pass filter	5 Hz ~ 80 Hz	
Band pass filter	5 Hz ~ 20 KHz	
Bass boost	0 ~ +12 dB (35 Hz ~ 55 Hz)	
Frequency response	10 Hz ~ 15 KHz (± 1 dB)	
Input sensitivity	500 mV ~ 8 V	
Operation voltage	9 V ~ 16 V	
Fuse	425 A (must be installed separately!)	
Dimensions w x h x l (mm)	225 x 68 x 373	
Dimensions w x h x l (inch)	8.85 x 2.67 x 14.68	
Weight	4.3 kg / 9.4 lbs	
Recommended battery current	min 425 A / ideally 850 A	

Trouble shooting guide

Symptoms	Check / Cause	Action
No audible sound	Does the ${\color{red} {\bf O}}$ sign turn to yellow? No? Probably there is no power supply	Check the power line fuse(s) Check remote wire connection to the head unit Check + 12 Volt power supply wire connection Check ground wire connection
	Does the U sign blink 10 times? Yes? The battery voltage is too high or too low	The operation voltage must be 9 to 16 V
	Does the A sign blink 10 times? Yes? Load at the speaker terminal is below 1 Ohm	Speaker wires may be shorted (short circuit) Check the wiring and the speakers
	Probably no input signal	Check the RCA wiring to the head unit
	Does the X sign light up red? Yes? Amplifier turned off due to high temperature	Turn off the amplifier until it cools down
	Does the sign blink permanently red? Yes? The amplifier is seriously damaged	Device has to be sent to our service department
Device does not turn on	Does the ${\color{red} {\bf O}}$ sign turn to yellow? No? Probably there is no power supply	Check the power line fuse(s) Check remote wire connection to the head unit Check + 12 Volt power supply wire connection Check ground wire connection
	Does the 🗙 sign blink permanently red? Yes? The amplifier is probably damaged	Device has to be sent to the service department
Distorted audio signal	Does the A sign turn red? Yes? The output signal is distorted	Decrease the amplifier gain (Level) or Decrease the volume level of the head unit
Amplifier is working, but	Does the sign blink frequently red? Yes? The battery voltage is below 9.5 V	Check and load the battery
Amplifier is burning	OMG!	Leave the car!

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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