



GROUND ZERO GZCS 100 Series Car Specific Component Loudspeaker System Owner's Manual

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GROUND ZERO®

GROUND ZERO GZCS 100 Series Car Specific Component Loudspeaker System



Specifications

- **Model:** GZCS 100.2BMW
- **Component:** Loudspeaker System
- **Xmax (p2p):** 100 mm / 4 midrange & 25 mm / 1 tweeter
- **Frequency Response:** 77 Hz (mid-woofer)
- **Power Handling:** 70 Watts RMS / 110 Watts Peak
- **Sensitivity:** 87 dB
- **Crossover Frequency:** 5000 Hz
- **Mounting Depth:** 7 mm / 0.28"

Product Usage Instructions

General Installation Notes

Ensure to follow all safety instructions provided in the manual before proceeding with the installation.

Mounting Options

- **Without Mounting Frame:** Follow the instructions for mounting the speakers without using the frame.
- **Bottom-Mounted Frame:** Use the provided adapter frame for bottom-mounted installation.

Crossover Settings

Adjust the tweeter level using the black & green wire connection as per your preference (-2 dB, 0 dB). Make sure to connect or disconnect the red & white wire based on whether you want to activate or deactivate the high pass

filter.

Features

- BMW-specific* 2-way loudspeaker system
- Klippel® optimized mid woofer with neodymium motor and glass fiber cone
- GZ design aluminum cast basket
- 25 mm / 1" silk dome tweeter with rear ventilation
- 12/6 dB/oct crossover with level adjustment
- Plug & Play connectors for BMW
- GZ designed an aluminum mounting frame for BMW*

General installation note

- Never drill a hole in 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 the speaker wiring to avoid disturbance
- Use adequately dimensioned power and speaker wires to connect the component

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: Hereby, Ground Zero GmbH declares that this product conforms to the rules of the following EU directives (including all applicable changes): 2011/65 / EU RoHS2 and 2001/95 / EC directive on general product safety.

The full text of the EU Declaration of Conformity is available at www.ground-zero-audio.com. Loudspeakers contain magnetized metals and some valuable raw materials and must not be disposed of with normal household waste. Please leave defective or no longer required components to a local recycling facility at the end of their practical use.

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 training for development employees ensure the highest possible qualification. KLIPPEL® is a registered trademark of KLIPPEL GmbH

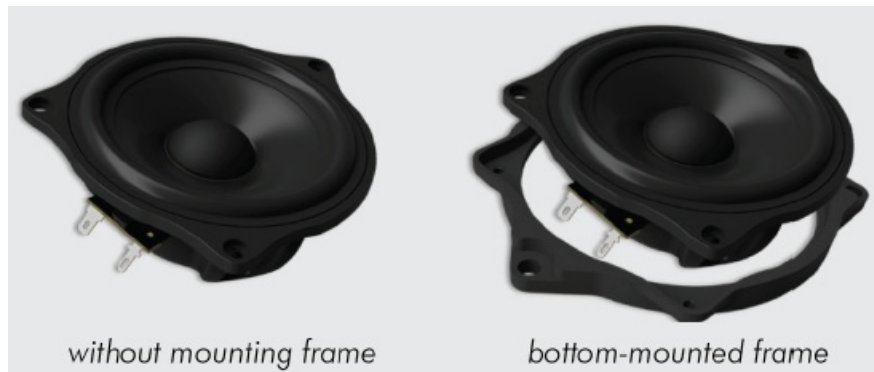
Terms of warranty

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

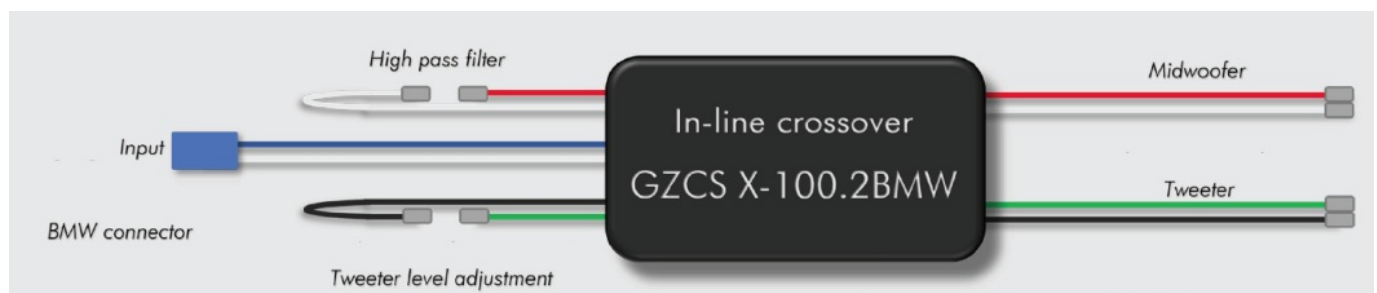
Mounting

Two different mounting options

- Use the gaskets – soft gasket on top, hard gasket on bottom.
- The hard gasket allows a cable routing between the speaker and the door.
- The soft gasket connects to the door panel



Crossover



- Tweeter level adjustment
- Black & green wire connected 0 dB
- Black & green wire not connected -2 dB

High pass filter (@ 250 Hz / 6 dB/oct)

Using the HPF at very low frequencies can be limited in case there is no active HPF available

- **Red & white wire not connected HPF on**
- **Red & white wire connected HPF off**

Important note! To replace the original speakers, door panels, and some other panels (e.g. on the A-pillar) need to be removed. This may require special lever tools in order not to damage the fastening clips on the panels. Therefore, it's strongly recommended only having the components installed by a car audio workshop or similar specialists have the necessary tools available and sufficient experience in installing such components to avoid any damage to the trim parts, bodywork, paintwork or electrical equipment of the vehicle due to an incorrect installation

Specifications

<i>Model</i>	GZCS 100.2BMW
<i>nominal diameter</i>	100 mm / 4" midrange & 25 mm / 1" tweeter
<i>compatibility</i>	BMW*
<i>impedance</i>	4 Ohm/ohms
<i>frequency response</i>	70 Hz – 24 kHz
<i>cross frequency</i>	5000 Hz
<i>power handling (RMS)</i>	70 Watt / Watts
<i>power handling (max)</i>	110 Watt / Watts
<i>efficiency (SPL)</i>	87 dB
<i>resonance frequency</i>	77 Hz (mid-woofer)
Xmax (p2p)	7 mm / 0.28"

Respect the Music

Listening to music can be emotional, impressive, relaxing or enjoyable. At that, it doesn't matter what kind of music is my 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 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!

- check the compatibility chart on the web page

GROUND ZERO products are engineered in Germany

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FAQ

- **Q: What is the purpose of the high pass filter (HPF)?**
 - **A:** The HPF helps in limiting very low frequencies, especially when there is no active HPF available, to ensure optimal sound quality and speaker protection.
- **Q: Where are GROUND ZERO products developed?**
 - **A:** GROUND ZERO products are engineered in Germany.
- **Q: How can I contact Ground Zero GmbH for support?**
 - **A:** You can contact Ground Zero GmbH at Tel. +49 (0)8095 / 873 83 -0 or visit their website at www.ground-zero-audio.com.


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- **Address:** Erlenweg 25 – 85658 Eggenried – Germany
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- **Fax** -10

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Documents / Resources

	<p>GROUND ZERO GZCS 100 Series Car Specific Component Loudspeaker System [pdf] Owner's Manual</p> <p>GZCS 100 Series Car Specific Component Loudspeaker System, GZCS 100 Series, Car Specific Component Loudspeaker System, Specific Component Loudspeaker System, Component Loudspeaker System, Loudspeaker System, System</p>
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References

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

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