



# GROUND ZERO Titanium Series GZTC 165.3X-II Component Loudspeaker System Owner's Manual

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# GROUND ZERO®

**GROUND ZERO Titanium Series GZTC 165.3X-II Component Loudspeaker System**



## Features

- High quality 3-way component system
- Klippel® optimized
- High-efficient 3-ohm loudspeakers
- HQPP cones with 3D structure
- Midrange with flat neodymium motor
- Resonance free GZ steel basket
- 0.79" silk dome tweeter with flush installation housing
- 3-way passive crossover with level adjustment
- Hexagon style protection grill

## General installation note

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

## 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](http://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.

## 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

## 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 trainings for development employees ensure the highest possible qualification.

KLIPPEL® is a registered trademark of KLIPPEL GmbH

## Specifications

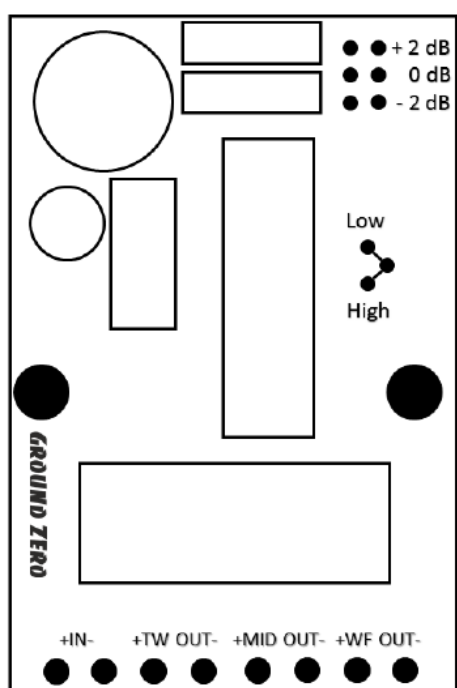
<i>model</i>	GZTC 165.3X-II
<i>impedance</i>	3 Ohm / <i>ohms</i>
<i>frequency response</i>	50 Hz – 22 kHz
<i>cut-off frequency</i> (WF/MID)	6000 Hz (6 dB/oct LPF & 6 dB/oct HPF)
<i>cut-off frequency</i> (MID/TW)	430 Hz (6 dB/oct LPF & 12 dB/oct HPF)
<i>efficiency</i> (SPL)	91 dB
<i>power handling</i> (RMS)	120 Watt / <i>Watts</i>
<i>power handling</i> (max.)	180 Watt / <i>Watts</i>

<i>model</i>	GZTK 165	GZTM 100NEO	GZTT 20S
<i>outer diameter</i>	165 mm / 6.5"	102 mm / 4.02"	54 mm / 2.13"
<i>mounting diameter</i>	142.5 mm / 5.61"	94 mm / 3.70"	46 mm / 1.81"
<i>mounting depth</i>	68 mm / 2.68"	32 mm / 1.26"	18 mm / 0.71"
<i>impedance</i>	3 Ohm / <i>ohms</i>	3 Ohm / <i>ohms</i>	3 Ohm / <i>ohms</i>
<i>power handling</i> (RMS)	80 Watt / <i>Watts</i>	40 Watt / <i>Watts</i>	30 Watt / <i>Watts</i>
<i>power handling</i> (max.)	110 Watt / <i>Watts</i>	50 Watt / <i>Watts</i>	40 Watt / <i>Watts</i>

## Crossover adjustment

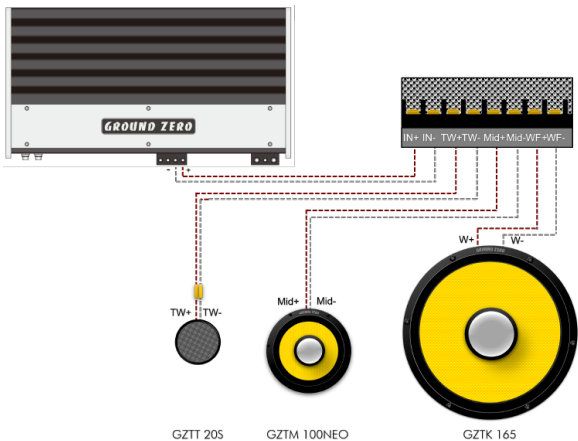
	<i>effect</i>
– 2 dB / 0 dB / + 2 dB	<i>3-step individual tweeter level adjustment</i>
<i>midrange</i>	<i>effect</i>
Low ( <i>green</i> )	<i>Linear frequency response for direct speaker alignment to the listening position.</i>
High ( <i>red</i> )	<i>Increase of the upper midrange frequency response</i>

## GZTC 165.3X-II – Crossover



<i>Tweeter level adjustment:</i> <i>Tweeter level can be set by positioning the jumper to the required level position</i>	
<i>Midrange cut-off frequency:</i> <i>The low pass frequency can be selected with the jumper between low or high</i>	
IN	Radio
TW OUT	Anschluss
MID OUT	Anschluss
WF OUT	Anschluss
IN	Input from head unit / amplifier
TW OUT	Tweeter connector
MID OUT	Midrange connector
WF OUT	Kick woofer connector


Wiring



Respect the Music

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!

Documents / Resources



**GROUND ZERO**  
GERMAN ENGINEERING

**TITANIUM SERIES**  
Component Loudspeaker System

**GZTC 165.3X-II**

Anleitung / Owner's manual

[GROUND ZERO Titanium Series GZTC 165.3X-II Component Loudspeaker System \[pdf\]](#) [Owner's Manual](#)

Titanium Series GZTC 165.3X-II Component Loudspeaker System, Titanium Series, GZTC 165 .3X-II Component Loudspeaker System, Component Loudspeaker System, Loudspeaker System

## References

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

Manuals+