

URANIUM SERIES Loudspeaker System

GZUC 165.2SQ GZUC 165.2SQ-ACT

Owner's Manual

English

Introduction

Thank you for choosing a GROUND ZERO product and welcome to your new URANIUM series loudspeaker!

This is the owner's manual providing instructions on the operation and installation of this SQ tweeter. Please, read it carefully. If you have any further questions, please contact your local GROUND ZERO dealer or our regional distribution partner.

This tweeter is one of the most important parts of your car audio system. However, it will only be able to deliver its full performance when each part of the whole system is tuned carefully matching each other. Therefore, we recommend consulting a car audio specialist to compile the desired sound system, as well as for installation and tuning.

We hope you will enjoy the sound quality of an enthusiastic development by the GROUND ZERO engineering team!

URANIUM Series – Amazing Sound Quality

Products belonging to the GROUND ZERO URANIUM series stand for high-end sound quality or extreme power handling capability.

Each product of the URANIUM line-up has been developed carefully to fulfill the demands of music enthusiasts with high audiophile expectations at a reasonable price level. Applying all of Ground Zero's sound quality competition experience while tuning the product details carefully, results in emotional and amazing audio reproduction. The distinguished amplifiers point out the main purpose by their designation: SQ beyond the average!

GZUC 165.2SQ/SQ-ACT is a loudspeaker system of the new URANIUM series, delivering an outstanding sound performance.

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 regional distributor.

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 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





GZUC 165.2SQ GZUC 165.2SQ-ACT

Features

- High-Quality 2-way SQ loudspeaker system
- Klippel® optimized mid/kickwoofer
- Black anodized aluminum cone
- GZ-design aluminum cast basket
- High-efficient, linearized neodymium motor
- Durable rubber surround
- Gold plated terminals
- 28 mm / 1.1" SQ silk dome tweeter with flush mount housing
- Variable 12 dB/oct crossover with level adjustment (not for ACT model)
- GZ-Design hexagon style protection grill

GROUND ZERO GZUC 165.2SQ / SQ-ACT

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| Model | GZUC 165.2SQ |
|--------------------------|---|
| Speaker type | 165 mm / 6.5" 2-way loudspeaker system with crossover |
| Impedance (nominal) | 4 ohms |
| Frequency response | 40 Hz – 25 kHz |
| High pass filter | Low: 4800 Hz / High: 5500 Hz @ 12 dB/oct. |
| Low pass filter | 4800 Hz @ 12 dB/oct. |
| Power handling (RMS) | 140 Watts |
| Power handling (max.) | 230 Watts |
| Model | GZUC 165.2SQ-ACT |

| 165 mm / | 6.5" | 2-way | loudsr | heaker | system | for active | application |
|-------------|------|----------|--------|--------|----------|------------|-------------|
| 100 11111 / | 0.0 | <u> </u> | 100035 | Carcor | 5,510111 | IOI GCIIVO | application |

| Specification | GZUT 28SQ |
|---------------------|--|
| Diameter (nominal) | 28 mm |
| Housing | Plastic |
| Dome | Coated silk |
| Voice Coil | 28 mm / 1.1" copper |
| Motor | Neodymium magnet |
| Impedance | 4 ohms |
| Frequency response | 2500 Hz – 25 kHz |
| Power handling | 80 Watts RMS 130 Watts max. (3 kHz HPF @ 12dB/oct) |
| Resonance frequency | 1300 Hz |
| Efficiency (SPL) | 90 dB |



| Model | GZUK 165SQ |
|---------------------|---|
| Diameter (nominal) | 165 mm / 6.5" |
| Basket | Aluminum cast |
| Cone | Anodized aluminum |
| Voice coil | 50 mm /2" copper |
| Motor | Neodymium magnet |
| Impedance (nominal) | 4 ohms |
| Frequency response | 40 Hz – 3.5 kHz |
| Power handling | 120 Watts RMS 180 Watts max. (60 Hz HPF @ 12dB/oct) |
| Resonance frequency | 54.6 Hz |
| Efficiency (SPL) | 87 dB |
| R _e | 3.2 ohms |
| Q _{ms} | 3.87 |
| Q _{es} | 0.77 |
| Q _{ts} | 0.64 |
| V _{as} | 12.6 L |
| M _{ms} | 16.3 g |
| BL | 4.84 N/A |
| R _{ms} | 1.44 kg/s |
| C _{ms} | 0.52 mm/N |
| Ŀ | 0.17 mH |
| Xmax (excursion) | 12 mm / 0.47" (p2p) |

| Dimensions Tweeter | Outer diameter Mounting diameter Mounting depth | 54 mm / 2.13" 48 mm / 1.89" 18 mm / 0.71" |
|-------------------------|---|---|
| Dimensions Crossover | (W x H x D) | 85 x 34 x 140mm / 3.35 x 1.34 x 5.51" |

| Dimensions Mid / Kickwoofer | Outer diameter (A) | 165 mm / 6.5" |
|--------------------------------|-----------------------|----------------|
| | Mounting diameter (B) | 144 mm / 5.67" |
| | Mounting depth (C) | 63 mm / 2.48" |

GZUK 165SQ Dimensions



Crossover Setup (not for ACT model)

| OO - 2 dB OO 0 dB OO + 2 dB | Tweeter level adjustment: The tweeter level can be set by positioning the jumper to the required level position |
|-----------------------------------|--|
| | Tweeter cut-off frequency: The high pass crossover frequency can be selected with the jumper between low or high |
| GROUIND ZEGO | |
| IN+ IN- WF+ WF- TW+ TW- | INInput from head unit / amplifierTW OUTTweeter connectorWF OUTMid/kickwoofer connector |

GROUND ZERO GZUC 165.2SQ / SQ-ACT



GZUK 165SQ

Noise damping – Essential basis for high-quality sound experiance

Simple or thin surfaces and panels of the car's body and in the vehicle's interior tend by stimulation to vibrations, in particular by vibrations that arise while driving or when playing music with the speaker cones. In order to reduce the resulting booming, the natural resonance, means the frequency at which these surfaces resonate particularly strongly, must be reduced. For this purpose, the insulation of aluminum-butyl requires the largest possible mass. For this purpose, GROUND ZERO offers materials with different properties and basis weight. In addition, the GROUND ZERO range offers other products, such as self-adhesive aluminum plates or sound-absorbing foam mats, which improve the result even more. The bonding of these materials drastically changes the tendency of body parts to oscillate, which significantly reduces the unwanted noise level. A complete door damping set is available with GZDM DOORKIT PRO.

Essential door damping is available as GZDM DOORKIT PRO





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!

Ground Zero GmbH



Erlenweg 25, 85658 Egmating, Germany Tel. +49 (0)8095/873-830 www.ground-zero-audio.com



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