

GROUND ZERO[®]

GERMAN ENGINEERING

URANIUM SERIES

Mid/Kickwoofer

GZUK 165SQ

Owner's Manual

English

GROUND ZERO GZUK 165SQ

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!

GZUK 165SQ are midwoofers 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

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Features

- High-Quality SQ mid/kickwoofer
- Klippel[®] optimized
- Black anodized aluminum cone
- GZ-design aluminum cast basket
- High-efficient, linearized neodymium motor
- Durable rubber surround
- Gold plated terminals
- GZ-design hexagon protection grill

GROUND ZERO GZUK 165SQ

Specifications

Model	GZUK 165SQ
Speaker type	165 mm / 6.5" SQ mid/kickwoofer
Impedance (nominal)	4 ohms
Frequency response	40 Hz – 3.5 kHz
Basket	Aluminum cast
Cone	Anodized aluminum
Motor	Neodymium magnet
Voice coil	50 mm / 2" copper
Power handling (RMS)	120 Watts (60 Hz HPF @ 12dB/oct.)
Power handling (max.)	180 Watts (60 Hz HPF @ 12dB/oct.)

Technical Parameters (TSP)

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
B_L	4.84 N/A
R_{ms}	1.44 kg/s
C_{ms}	0.52 mm/N
L_E	0.17 mH
Xmax (excursion)	12 mm / 0.47" (p2p)

Dimensions

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

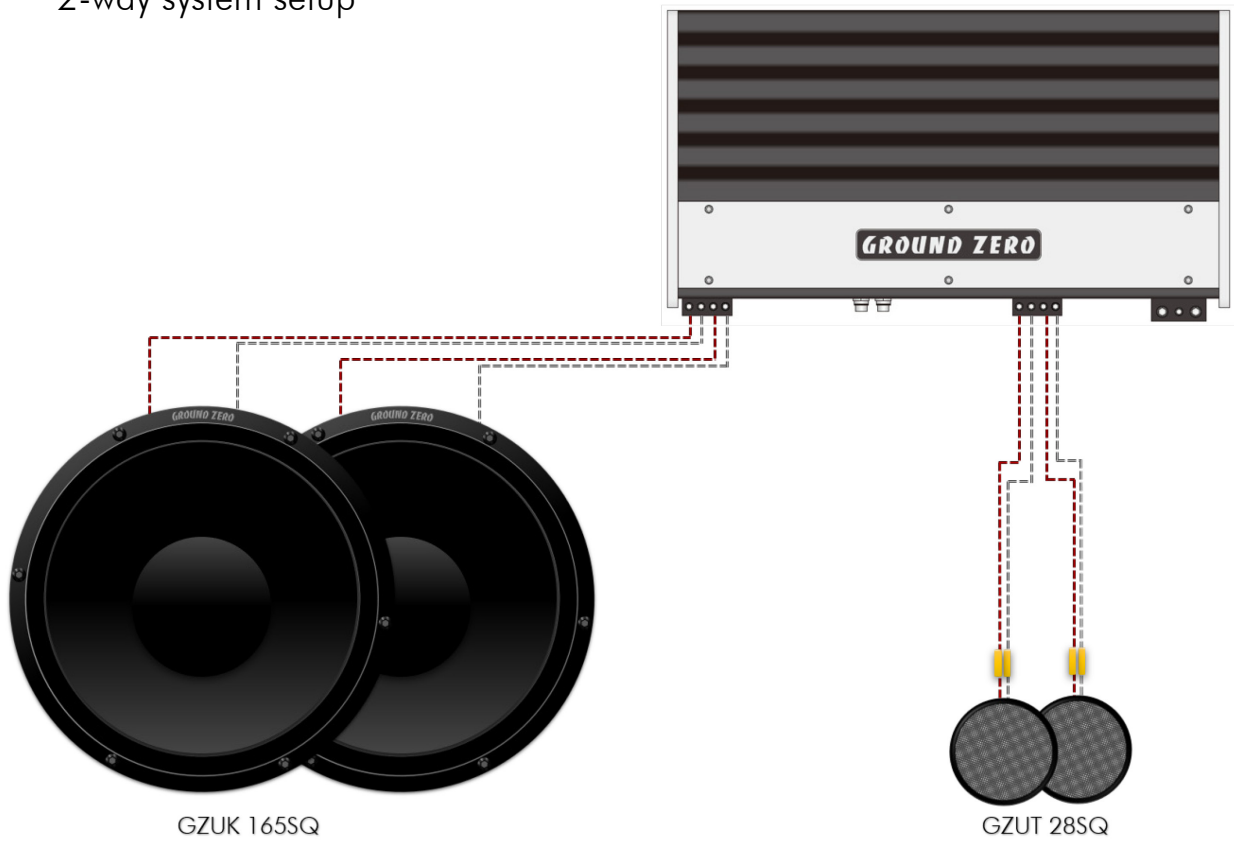


GROUND ZERO GZUK 165SQ

Wiring

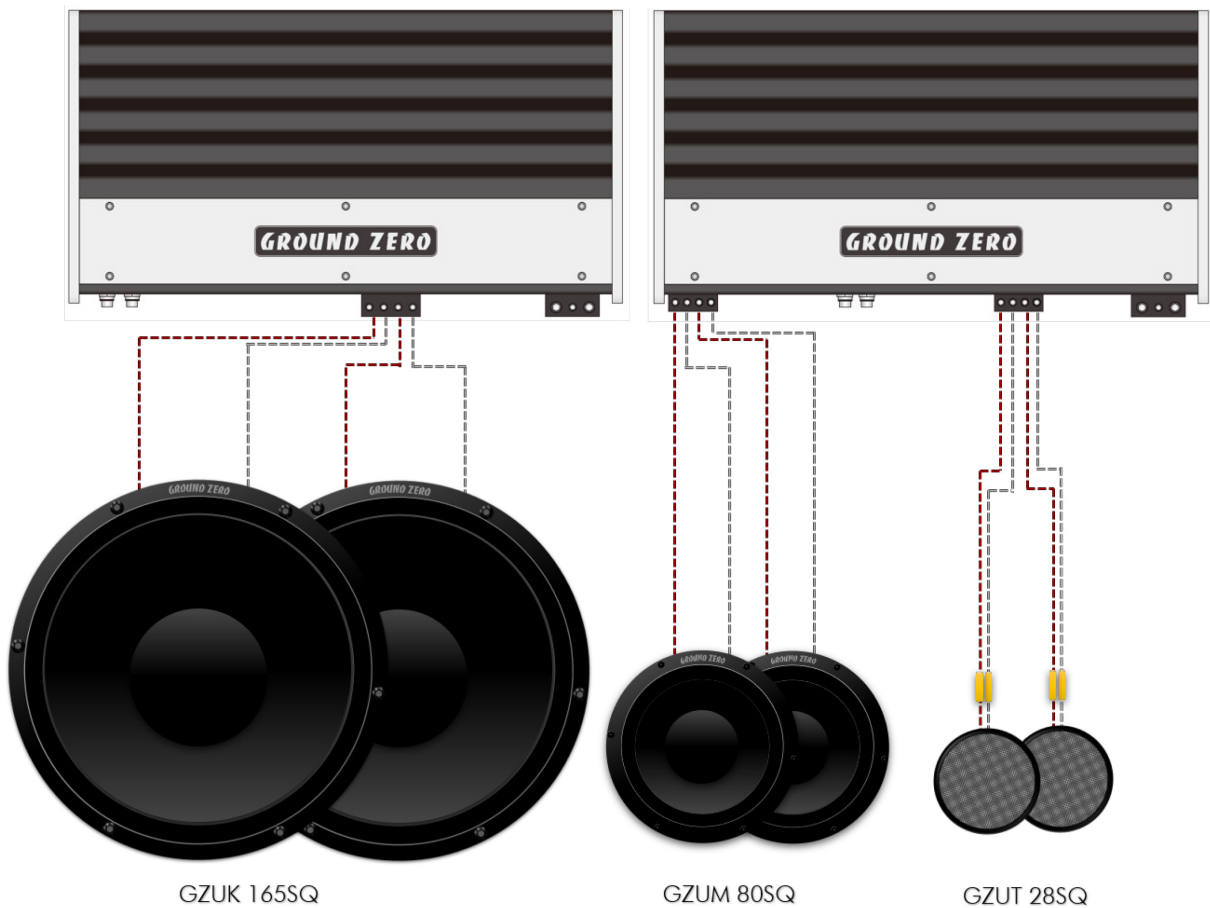
2-way system setup

4-channel amplifier with integrated active crossover



3-way system setup

Amplifiers with integrated active crossover or with DSP



Noise damping – Essential basis for high-quality sound experience

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.



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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