

[Manuals.plus](#) /

› [Skar Audio](#) /

› Skar Audio TWS-01 1-Inch 240 Watt Max Power Neodymium Silk Dome Tweeters User Manual

Skar Audio TWS-01

Skar Audio TWS-01 1-Inch 240 Watt Max Power Neodymium Silk Dome Tweeters User Manual

Model: TWS-01 | Brand: Skar Audio

INTRODUCTION

The Skar Audio TWS-01 tweeters are designed to deliver exceptional high-frequency sound reproduction in your vehicle's audio system. Featuring powerful neodymium magnets and a premium silk dome design, these tweeters offer clear and precise audio. This manual provides essential information for the proper installation, operation, and maintenance of your TWS-01 tweeters to ensure optimal performance and longevity.

SAFETY INFORMATION

Please read all safety instructions carefully before installing or operating the tweeters. Failure to follow these guidelines may result in damage to the product, vehicle, or personal injury.

- Always disconnect the vehicle's battery before beginning any electrical installation.
- Ensure all wiring connections are secure and properly insulated to prevent short circuits.
- Do not expose the tweeters to excessive moisture or extreme temperatures.
- Avoid over-driving the tweeters with excessive power, as this can lead to distortion and damage.
- Consult a professional audio installer if you are unsure about any part of the installation process.

WHAT'S IN THE BOX

Verify that all components are present before beginning installation:

- Skar Audio TWS-01 1" Component Tweeters (Pair)
- (2) Crossovers
- Mounting Hardware (screws, clips, mounting cups)
- User Manual (this document)



Image: Skar Audio TWS-01 tweeters and passive crossovers, ready for installation.

SETUP AND INSTALLATION

The TWS-01 tweeters offer versatile mounting options including surface, angle, and flush mount. Choose the method best suited for your vehicle and desired sound staging.

Mounting Options:

- **Flush Mount:** Requires cutting a circular hole in the mounting surface. The tweeter sits flush with the surface for a clean, integrated look.
- **Surface Mount:** The tweeter is mounted on top of the surface using the included mounting cups, allowing for easy installation without cutting large holes.
- **Angle Mount:** Similar to surface mount, but the mounting cup allows the tweeter to be angled towards the listener for improved sound imaging.



Image: Included mounting cups for surface and angle mounting options.

Wiring Instructions:

Each TWS-01 tweeter requires connection to its dedicated passive crossover. The crossovers are essential for filtering frequencies, ensuring only high frequencies reach the tweeter, protecting it from damage and optimizing sound quality.

1. Identify the input and output terminals on the passive crossover. The input will connect to your amplifier or head unit's speaker output. The output will connect to the tweeter.
2. Connect the positive (+) and negative (-) speaker wires from your amplifier or head unit to the corresponding input terminals on the crossover.
3. Connect the positive (+) and negative (-) wires from the crossover's tweeter output to the corresponding terminals on the TWS-01 tweeter. Ensure polarity is correct (positive to positive, negative to negative) for optimal sound.
4. Secure all connections using appropriate connectors or soldering, and insulate them with heat shrink tubing or electrical tape.



Image: Passive crossovers with wiring, demonstrating the connection points for the tweeters.

OPERATING INSTRUCTIONS

Once installed, the Skar Audio TWS-01 tweeters operate as part of your vehicle's audio system. Proper tuning of your head unit or amplifier is crucial for optimal performance and to prevent damage.

- **Initial Power-Up:** After installation, turn on your audio system at a low volume. Gradually increase the volume to ensure all connections are correct and the tweeters are functioning properly.
- **Gain Setting:** If using an external amplifier, set the gain control carefully. Start with the gain at its lowest setting and slowly increase it until you achieve the desired volume without any audible distortion. Over-setting the gain can damage the tweeters.
- **Equalization (EQ):** Use your head unit's or amplifier's EQ settings to fine-tune the sound. Avoid boosting high frequencies excessively, as this can lead to harsh sound or tweeter damage. The silk dome design provides natural, clear highs.
- **Crossover Settings:** The included passive crossovers are designed to work optimally with the TWS-01 tweeters. If your amplifier or head unit has active crossover settings, ensure they are set appropriately to avoid sending low frequencies to the tweeters.

MAINTENANCE

The Skar Audio TWS-01 tweeters require minimal maintenance to ensure long-lasting performance.

- **Cleaning:** Use a soft, dry cloth to gently wipe the tweeter grilles and surrounding areas. Avoid using harsh chemicals or abrasive cleaners.
- **Inspection:** Periodically check wiring connections for looseness or corrosion. Ensure mounting hardware remains secure.
- **Environmental Protection:** While designed for automotive use, avoid prolonged exposure to direct sunlight or extreme heat, which can degrade materials over time.

TROUBLESHOOTING

If you experience issues with your TWS-01 tweeters, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No sound from tweeters	Loose wiring, incorrect polarity, damaged crossover, amplifier issue.	Check all connections. Verify positive/negative wiring. Test crossover. Check amplifier power and settings.
Distorted sound	Over-driving, incorrect gain setting, improper EQ, damaged tweeter.	Reduce volume. Adjust amplifier gain. Flatten EQ settings. If distortion persists at low volume, tweeter may be damaged.
Weak or muffled sound	Incorrect wiring, phase issue, low power.	Double-check wiring and polarity. Ensure sufficient power from amplifier.

If the problem persists after attempting these solutions, contact Skar Audio customer support or a qualified car audio technician.

SPECIFICATIONS

Model Name: TWS-01

Speaker Type: Tweeter

Max Power: 240 Watts (pair)

RMS Power: 80 Watts (pair)

Impedance: 4 Ohm

Frequency Response: 2.0 KHz - 20 KHz

Sensitivity: 92 dB

Magnet Type: Neodymium

Dome Material: Silk

Mounting Type: Surface, Angle and Flush Mount

Product Dimensions: 6"D x 9.25"W x 1.75"H

Item Weight: 0.79 Pounds (approx. 12.6 ounces)

WARRANTY AND SUPPORT

Skar Audio products are backed by a limited warranty. For specific warranty terms and conditions, please refer to the warranty information provided with your purchase or visit the official Skar Audio website.

For technical support, troubleshooting assistance, or replacement parts, please contact Skar Audio customer service:

Website: www.skaraudio.com

Contact Information: Refer to the 'Contact Us' section on the Skar Audio website for phone numbers and email support.