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Skar Audio IX-12 D4

Skar Audio IX-12 D4 12-inch Dual 4 Ohm Car Subwoofer Instruction Manual

Model: IX-12 D4

Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your Skar Audio IX-12 D4 12-inch Dual 4 Ohm Car Subwoofer. Please read this manual thoroughly before attempting installation or operation to ensure optimal performance and product longevity. Retain this manual for future reference.

Product Overview

The Skar Audio IX-12 D4 is a 12-inch car subwoofer designed for vehicle audio systems. It features a dual 4-ohm voice coil configuration, allowing for flexible wiring options to match various amplifier impedances.

- **Size:** 12-Inch Dual 4-ohm Car Subwoofer
- **Power Handling:** Peak Power: 500 Watts | RMS Power: 250 Watts
- **Voice Coil:** 2-inch BASV Premium Voice Coil
- **Cooling:** Advanced Air Flow Cooling Design
- **Cone Material:** High Strength Pressed Paper Cone
- **Surround Material:** Foam Surround
- **Frequency Response Range:** 25 Hz - 300 Hz
- **Sensitivity:** 88.1 dB
- **Mounting Depth:** 5.31 inches



Figure 1: Angled view of the Skar Audio IX-12 D4 subwoofer, showcasing the cone and surround.

Specifications

Model Name	IX-12 D4
Speaker Type	Subwoofer
Subwoofer Diameter	12 Inches
Impedance	Dual 4 Ohm
Speaker Maximum Output Power	500 Watts (Peak)
RMS Power	250 Watts

Frequency Response	25 Hz - 300 Hz
Signal-to-Noise Ratio (Sensitivity)	88.1 dB
Mounting Depth	5.31 Inches
Product Dimensions (D x W x H)	13"D x 13"W x 7.5"H
Item Weight	10 Pounds
Included Components	Skar Audio IX-12 D4 12-inch Dual 4 Ohm Subwoofer
Connectivity Technology	Wired
Recommended Uses	Vehicle Car Audio System



Figure 2: Front view of the Skar Audio IX-12 D4 subwoofer, showing the Skar Audio logo on the dust cap.

Setup and Installation

Proper installation is crucial for the performance and longevity of your subwoofer. If you are unfamiliar with car audio wiring and installation, it is highly recommended to seek professional assistance.

Enclosure Requirements

The IX-12 D4 subwoofer requires a suitable enclosure for optimal performance. Consult Skar Audio's recommended enclosure specifications for sealed or ported designs to match your listening preferences. Ensure the enclosure provides adequate internal volume and structural integrity.

Mounting

1. Ensure the mounting surface is flat and free of obstructions.
2. Carefully mark and cut the mounting hole according to the subwoofer's cutout diameter.
3. Drill pilot holes for the mounting screws.
4. Secure the subwoofer to the enclosure using appropriate screws, ensuring an airtight seal. Do not overtighten.



Figure 3: Side view of the Skar Audio IX-12 D4 subwoofer, highlighting the push-button speaker terminals.

Wiring Configurations

The Skar Audio IX-12 D4 features dual 4-ohm voice coils, offering flexibility in wiring to achieve different final impedances. Always match the subwoofer's final impedance to your amplifier's stable operating impedance. Incorrect wiring can damage your amplifier or subwoofer.

Single Subwoofer Wiring Options (IX-12 D4)

- **Series Wiring (8 Ohms):**

  Connect the positive terminal of Voice Coil 1 to the negative terminal of Voice Coil 2. Connect the remaining negative terminal of Voice Coil 1 to the amplifier's negative output. Connect the remaining positive terminal of Voice

Coil 2 to the amplifier's positive output. This configuration results in a total impedance of 8 ohms.

- **Parallel Wiring (2 Ohms):**

  Connect the positive terminal of Voice Coil 1 to the positive terminal of Voice Coil 2. Connect the negative terminal of Voice Coil 1 to the negative terminal of Voice Coil 2. Connect the combined positive terminals to the amplifier's positive output. Connect the combined negative terminals to the amplifier's negative output. This configuration results in a total impedance of 2 ohms.

Important: Always verify your amplifier's stable impedance range before connecting the subwoofer. Using an impedance lower than your amplifier's minimum stable impedance can cause overheating and damage.



Figure 4: Angled rear view of the Skar Audio IX-12 D4 subwoofer, showing the magnet structure and dual voice coil terminals.

Operating Instructions

Break-in Period

Allow a break-in period of approximately 10-20 hours of normal listening before operating the subwoofer at high volumes. This allows the suspension components (surround and spider) to loosen up and reach their optimal performance characteristics.

Amplifier Gain Setting

Set your amplifier's gain control carefully. The gain control is not a volume knob; it matches the output voltage of your head unit to the input sensitivity of your amplifier. Improper gain settings can lead to distortion and potential damage to the subwoofer.

1. Turn the amplifier gain all the way down (minimum).
2. Set your head unit volume to about 75-80% of its maximum.
3. Play a music track with strong bass content.
4. Slowly increase the amplifier gain until you hear distortion, then back it off slightly until the sound is clear.

Crossover Settings

Utilize your amplifier's or head unit's low-pass filter (LPF) to ensure the subwoofer only reproduces low frequencies. A typical LPF setting for a 12-inch subwoofer is between 60 Hz and 100 Hz, depending on your vehicle's acoustics and personal preference.

Maintenance

- Keep the subwoofer cone and surround free from dust and debris. Use a soft, dry cloth for cleaning.
- Avoid exposing the subwoofer to excessive moisture or direct sunlight for prolonged periods.
- Periodically check all wiring connections to ensure they are secure and free from corrosion.
- Ensure the enclosure remains sealed and free of air leaks.

Troubleshooting

Problem	Possible Cause	Solution
No Sound from Subwoofer	◦ No power to amplifier ◦ Loose or incorrect wiring ◦ Amplifier in protect mode ◦ Head unit settings incorrect	◦ Check power, ground, and remote turn-on connections to amplifier. ◦ Verify all speaker and RCA connections. ◦ Check amplifier for fault indicators; consult amplifier manual. ◦ Ensure subwoofer output is enabled and volume is up on head unit.
Distorted Sound	◦ Amplifier gain set too high ◦ Clipping from head unit ◦ Incorrect crossover settings ◦ Damaged subwoofer	◦ Reduce amplifier gain until distortion disappears. ◦ Lower head unit volume. ◦ Adjust LPF settings; ensure no full-range signal is sent to subwoofer. ◦ Inspect subwoofer for physical damage.

Problem	Possible Cause	Solution
Subwoofer Overheating	◦ Underpowered amplifier ◦ Overpowered amplifier ◦ Incorrect impedance match ◦ Poor enclosure ventilation	◦ Ensure amplifier RMS output matches subwoofer RMS rating. ◦ Verify correct wiring impedance for amplifier. ◦ Ensure adequate airflow around the amplifier and subwoofer.

Warranty and Support

The Skar Audio IX-12 D4 subwoofer comes with 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 beyond this manual, or warranty claims, please contact Skar Audio customer service directly.

Manufacturer: Skar Audio

Date First Available: September 11, 2014



Figure 5: Packaging box for the Skar Audio IX-12 D4 subwoofer.

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