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> NVX SQW124 12" SQ-Series Shallow-Mount Car Subwoofer Instruction Manual

NVX SQW124

NVX SQW124 12" SQ-Series Shallow-Mount Car Subwoofer Instruction Manual

Model: SQW124 | Brand: NVX

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your NVX SQW124 12-inch SQ-Series Shallow-Mount Car Subwoofer. Please read this manual thoroughly before attempting installation or operation to ensure proper use and optimal performance.

What's in the Box

- NVX SQW124 12" Shallow-Mount Subwoofer
- Protective Subwoofer Grille



Figure 1: NVX SQW124 12-inch shallow-mount subwoofer with protective grille installed.

2. FEATURES

The NVX SQW124 subwoofer is engineered for high-quality bass reproduction in space-constrained vehicle environments. Key features include:

- **12" SQ-Series Shallow-Mount Design:** Optimized for powerful, accurate bass in vehicles with limited mounting depth.
- **Dual 4-Ohm Voice Coil Configuration:** Provides flexible wiring options for optimal amplifier matching and system design.
- **High Power Handling:** Rated at 1200W peak and 600W RMS, featuring a 1.5" high-temperature copper voice coil for sustained performance.
- **Durable Construction:** Polypropylene cone, robust rubber surround, and a custom die-cast aluminum basket

ensure reliability and precise control.

- **Space-Saving Installation:** Shallow 3.51" mounting depth, 16 mm Xmax, CTA-2031 compliant, and designed for compact sealed or ported enclosures.



Figure 2: Top view of the NVX SQW124 subwoofer cone, showcasing the polypropylene material.



Figure 3: Detailed view of the 1.5-inch high-temperature aluminum voice coil.

3. SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of your subwoofer. It is recommended that installation be performed by a qualified professional.

Enclosure Requirements

The SQW124 is designed for compact sealed or ported enclosures. Refer to the specifications section for recommended enclosure volumes. Ensure the enclosure is robust and sealed properly to prevent air leaks, which can degrade sound quality.



Figure 4: Side profile of the SQW124, optimized for compact enclosures.

Mounting

Due to its shallow-mount design, the SQW124 requires a mounting depth of only 3.51 inches. Ensure there is adequate clearance behind the subwoofer for proper ventilation and excursion.



Figure 5: Side view illustrating the shallow mounting depth of the subwoofer.

Wiring

The SQW124 features a dual 4-ohm voice coil configuration. This allows for various wiring options to match your amplifier's impedance requirements. Common configurations include:

- **Parallel Wiring (2 Ohms):** Connect the positive terminals of both voice coils together, and the negative terminals together. Connect the amplifier's output to these combined terminals. This presents a 2-ohm load to the amplifier.
- **Series Wiring (8 Ohms):** Connect the positive terminal of one voice coil to the negative terminal of the other voice coil. Connect the amplifier's output to the remaining positive and negative terminals. This presents an 8-ohm load to the amplifier.

Always ensure correct polarity and secure connections to prevent damage to the subwoofer or amplifier. Use appropriate gauge wiring for your power levels.



Figure 6: Rear view showing the dual voice coil terminals for wiring.

4. OPERATION

Initial Break-in

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 to loosen and achieve optimal performance.

Amplifier Settings

Properly set your amplifier's gain, crossover, and bass boost settings. Incorrect settings can lead to distortion and potential damage to the subwoofer. Consult your amplifier's manual for detailed instructions on setting these parameters. Avoid excessive bass boost, especially at high volumes.

Power Handling

The SQW124 is rated for 600W RMS and 1200W peak power. Ensure your amplifier's output matches these ratings to prevent underpowering or overpowering, both of which can cause damage.

5. MAINTENANCE

The NVX SQW124 subwoofer requires minimal maintenance. Follow these guidelines to ensure its longevity:

- **Cleaning:** Use a soft, dry cloth to clean the subwoofer cone and surround. Avoid using harsh chemicals or excessive moisture.
- **Protection:** Always use the included protective grille to shield the subwoofer cone from accidental damage, especially in vehicle environments where objects might come into contact with the speaker.
- **Environment:** Ensure the subwoofer is installed in a dry environment, protected from extreme temperatures and direct sunlight.



Figure 7: The included protective grille helps prevent damage to the subwoofer cone.

6. TROUBLESHOOTING

If you experience issues with your NVX SQW124 subwoofer, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No Sound	No power to amplifier; loose wiring; incorrect amplifier settings; damaged subwoofer.	Check amplifier power and fuses. Verify all wiring connections (power, ground, signal, speaker). Ensure amplifier gain is not at minimum and crossover is set correctly. Test subwoofer with another amplifier if possible.
Distorted Sound	Amplifier gain too high; incorrect crossover settings; damaged subwoofer; enclosure issues.	Reduce amplifier gain. Adjust crossover frequency. Inspect subwoofer cone and surround for damage. Check enclosure for air leaks or proper volume.
Weak Bass Output	Incorrect wiring (e.g., out of phase); insufficient amplifier power; improper enclosure.	Verify correct wiring polarity. Ensure amplifier provides adequate RMS power. Confirm enclosure meets recommended specifications.
Subwoofer Overheating	Overpowering; prolonged high volume use; inadequate ventilation.	Reduce volume. Ensure amplifier power matches subwoofer RMS rating. Check for proper airflow around the subwoofer and amplifier.

If these steps do not resolve the issue, contact NVX customer support or a qualified car audio technician.

7. SPECIFICATIONS

Detailed technical specifications for the NVX SQW124 12" Shallow-Mount Subwoofer:

Specification	Value
Brand	NVX
Model Number	SQW124
Speaker Size	12 inches
Speaker Type	Subwoofer
Mounting Type	Shallow Mount
Speaker Maximum Output Power	1200 watts (Peak)
RMS Power Handling	600 watts
Impedance	Dual 4 ohm
Frequency Response	500 hertz (Upper limit, typical for subwoofers)
Voice Coil Size	1.5 inches (High-temperature copper)
Xmax	16 mm
Item Dimensions (D x W x H)	3.51"D x 12"W x 3.51"H
Connectivity Technology	Wired
Built-In Media	Speaker Grille, Speakers

8. WARRANTY AND SUPPORT

Warranty Information

The NVX SQW124 subwoofer comes with a **1-year Manufacturer's Warranty**. This warranty covers defects in materials and workmanship under normal use. It does not cover damage resulting from improper installation, abuse, accident, neglect, or unauthorized modification. Please retain your proof of purchase for warranty claims.

Customer Support

For technical assistance, warranty inquiries, or further information regarding your NVX product, please visit the official NVX website or contact their customer support department. Contact details can typically be found on the product packaging or the manufacturer's website.

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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