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› Nemesis Audio NA-12S4 12" 450W RMS Single 4-Ohm Voice Coil SVC Car Subwoofer User Manual

Nemesis Audio NA-12S4

Nemesis Audio NA-12S4 Car Subwoofer User Manual

Model: NA-12S4 | Brand: Nemesis Audio

1. INTRODUCTION

Thank you for choosing the Nemesis Audio NA-12S4 12-inch car subwoofer. This manual provides essential information for the proper installation, operation, and maintenance of your new subwoofer. To ensure optimal performance and longevity, please read this manual thoroughly before installation and retain it for future reference.



Figure 1.1: Front view of the Nemesis Audio NA-12S4 subwoofer, showcasing the cone and surround.

2. SAFETY INFORMATION

Please observe the following safety precautions to prevent injury or damage to the product and vehicle:

- **Professional Installation Recommended:** Installation of car audio components can be complex. If you are unsure about any aspect of the installation, consult a qualified professional.
- **Disconnect Battery:** Always disconnect the vehicle's negative battery terminal before beginning any electrical work to prevent short circuits.
- **Proper Wiring:** Ensure all wiring is correctly connected and insulated to prevent electrical shorts and fire hazards. Use appropriate gauge wire for power and speaker connections.
- **Secure Mounting:** Mount the subwoofer securely within the vehicle to prevent it from becoming a projectile during sudden stops or collisions.
- **Avoid Overpowering:** Do not exceed the subwoofer's rated RMS power handling. Overpowering can lead to

permanent damage and voids the warranty.

- **Ventilation:** Ensure adequate ventilation around the subwoofer and amplifier to prevent overheating.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x Nemesis Audio NA-12S4 12-inch Car Subwoofer
- 1 x User Manual (this document)

4. SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of your subwoofer. This section outlines general guidelines. Specific vehicle requirements may vary.

4.1. Enclosure Recommendations

The NA-12S4 is designed to perform optimally in a sealed or ported enclosure. Consult a car audio specialist or use online enclosure calculators for precise dimensions based on your desired sound characteristics and available vehicle space.

- **Sealed Enclosure:** Provides tight, accurate bass response, ideal for sound quality.
- **Ported Enclosure:** Offers louder, more impactful bass, suitable for SPL (Sound Pressure Level) applications.

4.2. Wiring and Connections

The NA-12S4 features a single 4-ohm voice coil (SVC). Connect the subwoofer to a compatible amplifier capable of delivering 450 Watts RMS at a 4-ohm load.



Figure 4.1: Side view of the NA-12S4, illustrating the spring-loaded speaker terminals for easy wire connection.

Wiring Steps:

1. Ensure your amplifier is turned off and the vehicle's battery is disconnected.
2. Connect the positive (+) terminal of the subwoofer to the positive (+) speaker output terminal of your amplifier.
3. Connect the negative (-) terminal of the subwoofer to the negative (-) speaker output terminal of your amplifier.
4. Ensure all connections are secure and free from short circuits.

4.3. Amplifier Matching

Select an amplifier that can provide 450 Watts RMS at 4 ohms. Using an amplifier with significantly less power may result in clipping and distortion, while an amplifier with excessive power can damage the subwoofer if not properly gain-matched.

5. OPERATING INSTRUCTIONS

Once installed, the subwoofer operates as part of your car audio system. Proper tuning of your amplifier and head unit is essential for optimal sound quality and subwoofer longevity.

- **Gain Setting:** Set the amplifier gain correctly to match the output voltage of your head unit. Do not use the gain control as a volume knob; it should be set to prevent clipping.
- **Low-Pass Filter (LPF):** Activate the low-pass filter on your amplifier or head unit. This ensures the subwoofer only reproduces low frequencies, typically set between 60Hz and 100Hz, depending on your system and preference.
- **Subsonic Filter:** If your amplifier has a subsonic filter, enable it and set it slightly below your enclosure's tuning frequency (for ported enclosures) to protect the subwoofer from over-excursion at very low frequencies.
- **Break-in Period:** Allow a break-in period of approximately 20-30 hours of moderate listening before operating the subwoofer at full power. This allows the suspension components to loosen up and perform optimally.

6. MAINTENANCE

The Nemesis Audio NA-12S4 requires minimal maintenance. Follow these guidelines to keep your subwoofer in excellent condition:

- **Cleaning:** Use a soft, dry cloth to wipe down the subwoofer cone and surround. Avoid using harsh chemicals or abrasive cleaners.
- **Inspection:** Periodically check all wiring connections to ensure they are secure and free from corrosion. Inspect the subwoofer's surround and cone for any signs of damage or wear.
- **Environmental Factors:** Protect the subwoofer from extreme temperatures, direct sunlight, and moisture.

7. TROUBLESHOOTING

If you experience issues with your Nemesis Audio NA-12S4 subwoofer, refer to the table below for common problems and solutions.

Problem	Possible Cause	Solution
No Sound from Subwoofer	No power to amplifier; loose speaker wires; amplifier in protect mode; incorrect gain setting.	Check amplifier power, ground, and remote turn-on connections. Verify speaker wire connections at both subwoofer and amplifier. Reset amplifier by cycling power. Adjust gain.

Problem	Possible Cause	Solution
Distorted Sound	Amplifier gain set too high (clipping); incorrect LPF setting; damaged subwoofer.	Reduce amplifier gain. Adjust LPF to appropriate frequency. Inspect subwoofer for physical damage.
Weak Bass Output	Incorrect wiring (out of phase); insufficient amplifier power; improper enclosure.	Verify positive and negative connections are consistent. Ensure amplifier meets RMS power requirements. Check enclosure volume and tuning.
Subwoofer Overheating	Overpowering; inadequate ventilation; impedance mismatch.	Reduce volume or amplifier gain. Ensure proper airflow around the subwoofer and amplifier. Verify correct impedance matching.

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

8. TECHNICAL SPECIFICATIONS

Detailed specifications for the Nemesis Audio NA-12S4 12-inch Car Subwoofer:



Figure 8.1: Rear view of the NA-12S4, displaying the model number and key specifications on the magnet cover.

Feature	Specification
Model Name	NA-12S4
Speaker Type	Subwoofer
Recommended Uses	For Car Audio Systems
Subwoofer Diameter	12 Inches
RMS Power Handling	450 Watts
Impedance	4 Ohm (Single Voice Coil)
Connectivity Technology	Wired (RCA compatible amplifier input)

Feature	Specification
Item Weight	20 Pounds (approx. 320 Ounces)
Product Dimensions	15 x 15 x 11 inches
Manufacturer	Nemesis Audio
Country of Origin	USA
UPC	764488484652
Mounting Type	Flush Mount
Water Resistance Level	Not Water Resistant

9. WARRANTY AND SUPPORT

Nemesis Audio products are manufactured to high standards and are covered by a limited warranty. For specific warranty terms and conditions, please refer to the warranty card included with your purchase or visit the official Nemesis Audio website.

For technical support, troubleshooting assistance, or warranty claims, please contact Nemesis Audio customer service through their official channels. When contacting support, please have your product model number (NA-12S4) and proof of purchase readily available.

ASK A QUESTION ABOUT THIS MANUAL

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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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.

Submit question