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CT Sounds NEO8-4

CT Sounds NEO8-4 8-inch Neo Pro Audio Midrange Loudspeaker Instruction Manual

Model: NEO8-4

1. Product Overview

The CT Sounds NEO8-4 is an 8-inch Neo Pro Audio Midrange Loudspeaker designed for high-performance car audio systems. This speaker features robust construction and advanced components to deliver clear and powerful midrange frequencies.

Key Features:

- **Size:** 8 inches
- **Power Handling:** 275 Watts RMS / 550 Watts MAX
- **Impedance:** Single 4-Ohm
- **Sensitivity:** 100 dB
- **Frequency Response:** 120 Hz - 7,000 Hz
- **Magnet Type:** N42 Neodymium Magnet
- **Voice Coil:** CCAW (Copper-Clad Aluminum Wire)
- **Special Features:** Bullet Plug, Push Terminals

What's in the Box:

- 1 x CT Sounds NEO8-4 8” Neo Pro Audio Midrange Loudspeaker



Figure 1.1: Front view of the CT Sounds NEO8-4 8-inch Midrange Loudspeaker.

2. Setup and Installation

Proper installation is crucial for optimal performance and longevity of your CT Sounds NEO8-4 loudspeaker. It is recommended that installation be performed by a qualified professional.

Mounting:

- **Mounting Type:** Flush Mount
- **Product Dimensions:** 8.23"D x 8.23"W x 3.33"H
- Ensure adequate clearance for the speaker's depth and diameter.
- Use appropriate mounting hardware (not included) to secure the speaker firmly.

Wiring and Connections:

- The speaker features push terminals for secure wire connections.

- Connect the positive (+) terminal of the speaker to the positive (+) output of your amplifier.
- Connect the negative (-) terminal of the speaker to the negative (-) output of your amplifier.
- Ensure correct polarity to prevent phase issues and ensure optimal sound quality.
- The speaker has a 4-Ohm impedance. Verify your amplifier is stable at this impedance.



Figure 2.1: Side view of the CT Sounds NEO8-4 showing the push terminals for wiring.



Figure 2.2: Rear view of the speaker, displaying model and power handling specifications.



Figure 2.3: Close-up of the push terminals for secure wire connections.

3. Operating Instructions

The CT Sounds NEO8-4 loudspeaker is designed to integrate into your car audio system to enhance midrange sound reproduction.

General Operation:

- This is a passive speaker and requires an external amplifier for operation.
- Connect the speaker to an appropriate amplifier that matches its power handling (275W RMS) and impedance (4 Ohms).
- Adjust the amplifier's gain and crossover settings to optimize the speaker's performance within its specified frequency range (120 Hz - 7,000 Hz).
- Avoid overdriving the speaker, which can lead to distortion and potential damage.

Compatible Devices and Uses:

- **Recommended Uses:** Car Audio systems.
- **Compatible Devices:** Amplifier, Head Unit, Equalizer, Crossover.

- The speaker is designed for car audio applications and can be integrated into custom setups.

▶ **Watch video online**
CT Sounds MESO8-4 8" Midrange Speaker - Product Overview

Video 3.1: Product Overview of a CT Sounds 8-inch Midrange Speaker (MESO series), demonstrating features and specifications relevant to the NEO8-4.

▶ **Watch video online**
CT Sounds TROPO8-4 8" Midrange Speaker - Product Overview

Video 3.2: Product Overview of a CT Sounds 8-inch Shallow Speaker (TROPO series), highlighting design and power handling.

▶ **Watch video online**
CT Sounds NEO65-4 6.5" Midrange Speaker - Product Overview

Video 3.3: Product Overview of a CT Sounds NEO65-4 6.5-inch Midrange Speaker, showcasing features common to the NEO series.

4. Maintenance

To ensure the longevity and consistent performance of your CT Sounds NEO8-4 loudspeaker, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to gently wipe the speaker cone and frame. Avoid using harsh chemicals or abrasive materials.
- **Environmental Conditions:** The speaker is **NOT waterproof**. Protect it from direct exposure to water and excessive moisture.
- **Inspection:** Periodically check all wiring connections to ensure they are secure and free from corrosion. Inspect the speaker cone and surround for any signs of damage.
- **Storage:** If storing the speaker for an extended period, keep it in a cool, dry place away from direct sunlight and extreme temperatures.

5. Troubleshooting

If you encounter issues with your CT Sounds NEO8-4 loudspeaker, refer to the following troubleshooting steps:

No Sound:

- **Check Connections:** Ensure all speaker wires are securely connected to both the speaker's push terminals and the amplifier's output terminals. Verify correct polarity.
- **Amplifier Power:** Confirm that your amplifier is powered on and receiving a signal from the head unit or source. Check amplifier fuses.
- **Source Unit:** Ensure the audio source (head unit, MP3 player, etc.) is functioning correctly and outputting audio.
- **Crossover Settings:** Verify that the amplifier's crossover settings are configured to allow midrange frequencies to pass to the speaker.

Distorted Sound:

- **Gain Settings:** Reduce the gain setting on your amplifier. Excessive gain can cause distortion.
- **Power Level:** Ensure the speaker is not being overdriven beyond its RMS power handling (275W RMS).
- **Impedance Match:** Confirm that the amplifier's output impedance matches the speaker's 4-Ohm impedance.
- **Physical Damage:** Inspect the speaker cone and surround for any tears, dents, or other physical damage.

Intermittent Sound:

- **Loose Connections:** Re-check all wiring connections for looseness or corrosion.
- **Wiring Integrity:** Inspect speaker wires for cuts, pinches, or shorts.

6. Specifications

Specification	Value
Model Name	NEO8-4
Speaker Type	Midrange Speaker
Speaker Size	8 Inches
Power Handling (RMS)	275 Watts
Speaker Maximum Output Power (MAX)	550 Watts
Impedance	4 Ohms
Sensitivity	100 dB
Frequency Response	120 Hz - 7,000 Hz
Mounting Type	Flush Mount
Material	Copper-Clad Aluminum Wire (Voice Coil)
Special Feature	Bullet Plug, Neodymium Magnet, Push Terminals
Recommended Uses For Product	Car Audio
Compatible Devices	Amplifier, Head Unit, Equalizer, Crossover
Product Dimensions	8.23"D x 8.23"W x 3.33"H
Item Weight	2.88 pounds (1.31 Kilograms)
Is Waterproof	FALSE
Control Method	Remote (via connected system)
Connectivity Technology	Auxiliary, RCA (via connected system)

7. Warranty and Support

Warranty Information:

The CT Sounds NEO8-4 8-inch Neo Pro Audio Midrange Loudspeaker comes with a **Limited Warranty**. For detailed information regarding warranty terms, conditions, and duration, please refer to the official CT Sounds website or contact their customer service directly. Keep your proof of purchase for warranty claims.

Customer Support:

For technical assistance, installation questions, or any other inquiries regarding your CT Sounds product, please

contact the manufacturer:

- **Manufacturer:** CT Sounds
- Visit the official CT Sounds website for support resources, FAQs, and contact information.

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.

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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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