

DS18 PRONEO8

DS18 PRO-NEO8 Loudspeaker Instruction Manual

Model: PRO-NEO8

Brand: DS18

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your DS18 PRO-NEO8 Midrange Loudspeaker. Please read this manual thoroughly before using the product to ensure optimal performance and longevity.

The DS18 PRO-NEO8 is an 8-inch midrange loudspeaker designed for high-quality audio reproduction. It features a heavy-duty aluminum basket, a non-pressed paper cone, and a powerful neodymium magnet, delivering clear and powerful midrange frequencies.

KEY FEATURES

- 8" Loudspeaker with Bullet:** Features a specifically designed bullet dust cover for voice coil protection and optimal sound.
- Midrange Powerhouse:** Delivers 600W Max Power and 300W RMS at 4 Ohms.
- High-Quality Voice Coil:** Equipped with a 1.5" high-temperature KCCAW 2-layer voice coil for durability and structural integrity.
- Versatile Midrange Driver:** Capable of handling a significant portion of the audible sound spectrum, suitable for both instrumental and vocal reproduction.
- Top Quality Neodymium Magnets:** Utilizes neodymium magnets for higher magnetic flux density, resulting in greater action force in the voice coil.

PRODUCT OVERVIEW

The DS18 PRO-NEO8 loudspeaker is engineered for robust performance. Below are visual representations and descriptions of the product's key aspects.



Figure 1: Angled view of the DS18 PRO-NEO8 loudspeaker, showcasing its black cone and silver bullet resonator.

8" NEODYMIUM MID-RANGE



600W
MAX Power



Impedance:
4 Ohm



Frequency:
100Hz - 16KHz

DS18
PRO-NEO8

Figure 2: Two DS18 PRO-NEO8 loudspeakers, highlighting key specifications such as 8" Neodymium Mid-Range, 600W Max Power, 4 Ohm Impedance, and 100Hz-16KHz Frequency.

SILVER BULLET RESONATOR FOR A WIDE FREQUENCY RANGE



#WE LIKE IT LOUD  

Figure 3: Close-up view of the silver bullet resonator, designed for a wide frequency range, located at the center of the speaker cone.



Figure 4: A pair of DS18 PRO-NEO8 loudspeakers shown from an angled perspective, illustrating their design and form factor.



Figure 5: Direct front view of the DS18 PRO-NEO8 loudspeaker, showing the full circular cone and the central bullet resonator.



Figure 6: Side view of the DS18 PRO-NEO8 loudspeaker, revealing the depth of the speaker and the structure of the basket.



Figure 7: Rear view of the DS18 PRO-NEO8 loudspeaker, displaying the magnet structure and terminal connections.



Figure 8: Bottom view of the DS18 PRO-NEO8 loudspeaker, showing the product label with model name, power ratings, and impedance.

SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and safety. It is recommended that installation be performed by a qualified professional.

Pre-Installation Checklist:

- Ensure all components are present and undamaged.
- Verify the loudspeaker's impedance (4 Ohms) is compatible with your amplifier.
- Disconnect the vehicle's battery before starting any electrical work.
- Gather necessary tools: wire strippers, crimpers, screwdrivers, drill (if mounting holes are needed).

Mounting Instructions:

1. Choose a suitable mounting location that provides adequate depth (3.38" / 86mm) and cut-out dimensions (7.17" /

182mm).

2. Carefully mark and cut the mounting hole, ensuring it is clean and free of debris.
3. Position the loudspeaker in the opening and align the mounting holes.
4. Secure the loudspeaker using appropriate screws, ensuring not to overtighten.

Wiring Connections:

- Identify the positive (+) and negative (-) terminals on the loudspeaker.
- Connect the positive terminal of the loudspeaker to the positive output of your amplifier.
- Connect the negative terminal of the loudspeaker to the negative output of your amplifier.
- Ensure all connections are secure and insulated to prevent short circuits.
- For multiple speakers, consult your amplifier's manual for proper wiring configurations (series or parallel) to achieve the desired impedance.

OPERATING INSTRUCTIONS

Once installed, follow these guidelines for operating your DS18 PRO-NEO8 loudspeaker.

1. **Initial Power-Up:** After installation, reconnect the vehicle's battery. Turn on your audio system at a low volume level.
2. **Volume Adjustment:** Gradually increase the volume to a comfortable listening level. Avoid excessively high volumes that cause distortion, as this can damage the speakers and your hearing.
3. **Crossover Settings:** For optimal performance and protection, use an external crossover or your amplifier's built-in crossover to filter out frequencies below 95Hz. This speaker is designed for midrange frequencies.
4. **Break-in Period:** Allow a break-in period of approximately 10-20 hours of normal use. During this time, the speaker's suspension will loosen, leading to improved sound quality.
5. **System Compatibility:** Ensure your amplifier's power output (RMS) is within the recommended range for the PRO-NEO8 (300W RMS).

MAINTENANCE

Regular maintenance helps ensure the longevity and performance of your loudspeaker.

- **Cleaning:** Use a soft, dry cloth to gently wipe the speaker cone and frame. Avoid using harsh chemicals or abrasive cleaners.
- **Inspection:** Periodically inspect the speaker for any signs of damage, such as tears in the cone or surround, loose connections, or corrosion on terminals.
- **Environmental Factors:** While the speaker is robust, avoid exposing it to extreme temperatures, direct sunlight for prolonged periods, or excessive moisture. It is not water resistant.
- **Secure Mounting:** Ensure mounting screws remain tight. Vibrations can sometimes loosen them over time.

TROUBLESHOOTING

If you encounter issues with your DS18 PRO-NEO8 loudspeaker, refer to the following common problems and solutions.

Problem	Possible Cause	Solution
---------	----------------	----------

Problem	Possible Cause	Solution
No Sound from Speaker	Loose or incorrect wiring connection. Amplifier not powered on or faulty. Speaker damaged.	Check all wiring connections for proper polarity and tightness. Verify amplifier is on and functioning correctly. Test speaker with another known good amplifier or speaker.
Distorted Sound	Volume too high, causing clipping. Incorrect amplifier gain settings. Speaker cone damage. Improper crossover settings.	Reduce volume. Adjust amplifier gain to match head unit output. Inspect speaker cone for tears or dents. Ensure high-pass filter is set appropriately (e.g., 95Hz or higher).
Intermittent Sound	Loose wiring. Faulty amplifier or head unit.	Check and secure all wiring connections. Test components individually to isolate the faulty unit.

SPECIFICATIONS

Detailed technical specifications for the DS18 PRO-NEO8 Loudspeaker.

Attribute	Value
Model Name	PRO-NEO8
Type	Midrange Loudspeaker
Size	8 Inches
RMS Power	300W
MAX Power	600W
Frequency Response	95Hz - 9.5KHz
Impedance	4 Ohm
Sensitivity	98.9dB
Surround Material	Cloth Edge
Frame Material	Heavy Duty Aluminum
Cone Material	Non-Pressed Paper Cone
Magnet Type	Neodymium
Voice Coil Size	1.5" (38.6mm)
Voice Coil Wire	KCCAW 2 Layer
Magnet Size	NEO 80 oz (105 x 56 x 6)
Mounting Depth	3.38" (86mm)

Cut-Out Dimensions	7.17" (182mm)
Product Dimensions	1"D x 1"W x 1"H
Item Weight	5.25 Pounds
Mounting Type	Flush Mount
Color	Black
Water Resistance Level	Not Water Resistant
Recommended Uses	For Music Players, Motorcycle Audio
Compatible Devices	Smartphone, Tablet, MP3 Player, Laptop

WARRANTY INFORMATION

The DS18 PRO-NEO8 Loudspeaker comes with a Limited Warranty. For specific terms and conditions, please refer to the warranty card included with your product or visit the official DS18 website.

Note: Warranty coverage typically applies to manufacturing defects and does not cover damage caused by improper installation, abuse, or normal wear and tear.

CUSTOMER SUPPORT

For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact DS18 customer support.

- Online Support:** Visit the official DS18 website for FAQs, support resources, and contact information.
- Brand Store:** You can also find more information and products at the [DS18 Amazon Store](#).

© 2023 DS18. All rights reserved.

Manual Version: 1.0

Related Documents

	<p>DS18 PRO-NEO8R 6.5" Mid-Range Loudspeaker Owner's Manual</p> <p>Owner's manual for the DS18 PRO-NEO8R 6.5-inch mid-range loudspeaker with neodymium rings. Features detailed specifications, motor details, Thiele & Small parameters, and measurements for this high-performance audio component.</p>
---	---

	<p>DS18 PRO-X10.4M 10-Inch Midrange Loudspeaker Technical Specifications and Owner's Manual</p> <p>Detailed technical specifications, owner's manual, and Thiele Small Parameters for the DS18 PRO-X10.4M 10-inch midrange loudspeaker. Features 300W RMS power, 100.2 dB sensitivity, and comprehensive physical dimensions.</p>
	<p>DS18 PRO-X6.4BM 6.5-inch Midrange Loudspeaker with Bullet - Specifications and Data Sheet</p> <p>Detailed specifications, performance data, and dimensions for the DS18 PRO-X6.4BM 6.5-inch midrange loudspeaker with bullet. Features 500W max power, 250W RMS, 4-ohm impedance, and a wide frequency response.</p>
	<p>DS18 PRO-NS6.4 6.5-Inch Mid-Range Loudspeaker Owner's Manual</p> <p>Detailed owner's manual and specifications for the DS18 PRO-NS6.4 6.5-inch mid-range loudspeaker featuring an ultra-slim neodymium magnet. Includes technical data, measurements, and Thiele/Small parameters.</p>