

DS18 PRO-EXL108

DS18 PRO-EXL108 10-inch Midrange Loudspeaker Instruction Manual

Model: PRO-EXL108

1. INTRODUCTION

Thank you for choosing the DS18 PRO-EXL108 10-inch Midrange Loudspeaker. This manual provides essential information for the proper installation, operation, and maintenance of your new loudspeaker. Please read this manual thoroughly before installation and retain it for future reference.



Image 1.1: DS18 PRO-EXL108 10-inch Midrange Loudspeaker. This image displays the front view of the loudspeaker, highlighting its black cone and red aluminum basket.

Your browser does not support the video tag.

Video 1.1: DS18 PRO-EXL108 Loudspeaker Overview. This video provides a 360-degree view of the DS18 PRO-EXL108 loudspeaker, showcasing its design and construction from various angles.

2. WHAT'S IN THE BOX

Upon opening the package, please ensure all items are present and undamaged:

- DS18 PRO-EXL108 10-inch Midrange Loudspeaker (1 unit)
- Instruction Manual (this document)

3. KEY FEATURES

The DS18 PRO-EXL108 loudspeaker is engineered with the following features:

- **10-inch Midrange Design:** Optimized for clear and powerful midrange audio reproduction.
- **High Power Handling:** Capable of handling 600W RMS and 1000W Max power.
- **Durable Construction:** Features a red aluminum basket, cloth-edge surround, and non-pressed paper cone for reliability.
- **Ferrite Magnet:** High-strength ferrite magnet for efficient performance.
- **KCCAW Voice Coil:** Equipped with a 3-inch high-temperature KCCAW voice coil for extended durability.
- **Large Push-Style Connections:** Designed for secure and efficient power flow from your amplifier.



Image 3.1: Two DS18 PRO-EXL108 loudspeakers. This image shows two loudspeakers, highlighting their overall design and the DS18 branding.

4. SPECIFICATIONS

Model	PRO-EXL108
Type	Midrange Loudspeaker
Size	10 inches
RMS Power	600W
MAX Power	1000W
Frequency Response	74-11.5KHz
Impedance	8 Ohms
Sensitivity	97dB

Surround Material	Cloth Edge
Frame Material	Red Aluminum Basket
Cone Material	Non-Pressed Paper Cone
Magnet Material	Ferrite
Voice Coil Wire	KCCAW
Voice Coil Size	3 inches
Magnet Size	80 oz
Mounting Depth	4.68 inches (119mm)
Cut-Out Dimension	9.21 inches (234mm)
Net Weight	15.2 pounds (6.9 kg)



Image 4.1: DS18 PRO-EXL108 loudspeaker with key specifications. This image visually presents the loudspeaker alongside its RMS power, MAX power, impedance, size, and cone/surround materials.

5. INSTALLATION

Proper installation is crucial for optimal performance and longevity of your loudspeaker. If you are unsure about any part of the installation process, it is recommended to seek assistance from a professional car audio installer.

5.1 Mounting Considerations

- **Location:** Choose a mounting location that provides adequate space and structural integrity to support the loudspeaker's weight and dimensions.
- **Clearance:** Ensure there is sufficient clearance behind the mounting surface for the loudspeaker's

magnet and basket. Refer to the **Mounting Depth** (4.68 inches / 119mm) and **Cut-Out Dimension** (9.21 inches / 234mm) in the specifications.

- **Vibration:** Minimize vibrations by ensuring the mounting surface is rigid and secure.

5.2 Wiring

Connect the loudspeaker to your amplifier using appropriate gauge speaker wire. Observe correct polarity to ensure proper phase and sound reproduction.

- The PRO-EXL108 has an impedance of **8 Ohms**. Ensure your amplifier is stable at this impedance.
- Utilize the **large push-style connections** on the loudspeaker for secure wire termination.
- Connect the positive (+) terminal of the loudspeaker to the positive (+) output of the amplifier, and the negative (-) terminal of the loudspeaker to the negative (-) output of the amplifier.



Image 5.1: Large push-style connections. This image provides a close-up view of the loudspeaker's terminals, illustrating the large push-style connections designed for robust wire attachment.

OVERSIZED DS18 TOOLED BASKET IN BRILLIANT
RED AND BRUSHED ALUMINUM LOGOS



Image 5.2: Loudspeaker with mounting depth indication. This image highlights the red aluminum basket and indicates the mounting depth, crucial for installation planning.

6. OPERATION

Once properly installed and wired, the DS18 PRO-EXL108 loudspeaker is ready for operation. It is designed to work with a compatible amplifier that can provide 600W RMS power at 8 Ohms impedance.

- **Amplifier Settings:** Adjust your amplifier's gain, crossover, and equalization settings to achieve the desired sound quality. As a midrange loudspeaker, it is typically used with a high-pass filter to prevent low frequencies from reaching it, which could cause distortion or damage.
- **Volume Control:** Always start with the volume at a low level and gradually increase it to avoid sudden loud sounds that could damage your hearing or the equipment.
- **Break-in Period:** Allow a short break-in period (typically 10-20 hours of normal use) for the loudspeaker's suspension components to loosen up, which can improve overall sound performance.

7. MAINTENANCE

The DS18 PRO-EXL108 loudspeaker requires minimal maintenance to ensure long-lasting performance:

- **Cleaning:** Use a soft, dry cloth to gently wipe the cone and surround. Avoid using harsh chemicals or excessive moisture.
- **Inspection:** Periodically inspect the speaker for any signs of damage to the cone, surround, or wiring connections.
- **Environment:** Protect the loudspeaker from extreme temperatures, direct sunlight, and moisture, especially if installed in an open environment.

8. TROUBLESHOOTING

If you experience issues with your DS18 PRO-EXL108 loudspeaker, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No Sound	<ul style="list-style-type: none"> Loose or disconnected wiring Amplifier not powered on or faulty Incorrect amplifier settings 	<ul style="list-style-type: none"> Check all speaker wire connections for secure contact and correct polarity. Verify amplifier power and functionality. Ensure amplifier gain is set appropriately and mute functions are off.
Distorted Sound	<ul style="list-style-type: none"> Amplifier gain set too high Crossover settings incorrect Damaged speaker cone or voice coil Insufficient power from amplifier 	<ul style="list-style-type: none"> Reduce amplifier gain. Adjust high-pass filter settings to prevent low frequencies. Inspect the speaker for physical damage. If damaged, replacement may be necessary. Ensure amplifier provides adequate power (600W RMS at 8 Ohms).
Intermittent Sound	<ul style="list-style-type: none"> Loose wiring connection Faulty speaker wire 	<ul style="list-style-type: none"> Re-check and secure all wiring connections. Test with a different speaker wire if possible.

9. WARRANTY AND SUPPORT


For specific warranty information and terms, please refer to the warranty card included with your product or visit the official DS18 website. For technical support or service inquiries, please contact DS18 customer service through their official channels.






Manufacturer: DS18Sound

Website: www.ds18.com (Example link, actual link not provided in data)

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Related Documents - PRO-EXL108

	<p>DS18 PRO-X10BM 10" Midrange Loudspeaker - 600W Max, 8 Ohm</p> <p>Detailed specifications, dimensions, and performance data for the DS18 PRO-X10BM 10-inch midrange loudspeaker with bullet. Features 600W max power, 300W RMS, 8-ohm impedance, and a frequency response of 80Hz-5KHz.</p>
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	<p>DS18 PRO-X6.4M 6.5-Inch Midrange Loudspeaker: Specifications and Overview</p> <p>Detailed specifications, features, and measurements for the DS18 PRO-X6.4M 6.5-inch midrange loudspeaker. This document provides technical data including power handling, frequency response, impedance, and physical dimensions for this high-performance audio component.</p>
	<p>DS18 PRO-NEO6R 6.5" Mid-Range Loudspeaker Owner's Manual</p> <p>Owner's manual for the DS18 PRO-NEO6R 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-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-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 6OCT300-8 Octagonal Midrange Loudspeaker Owner's Manual</p> <p>Owner's manual for the DS18 6OCT300-8 6.5" Octagonal Midrange Loudspeaker, detailing specifications, parameters, and measurements.</p>