

## DS18 PRO-X10M

# DS18 PRO-X10M 10-Inch Classic 8-Ohm Midrange Loudspeaker Instruction Manual

## 1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your DS18 PRO-X10M 10-Inch Classic 8-Ohm Midrange Loudspeaker. Please read these instructions thoroughly before use to ensure optimal performance and longevity of your product. Retain this manual for future reference.

## 2. SAFETY INFORMATION

Always observe the following safety precautions during installation and operation:

- Disconnect the vehicle's battery negative terminal before beginning any electrical work to prevent short circuits.
- Ensure all wiring is properly insulated and secured to prevent damage from vibration or sharp edges.
- Use appropriate gauge wiring for power and speaker connections to handle the speaker's power requirements.
- Avoid installing speakers in locations that obstruct vehicle safety features or driver visibility.
- Do not expose the speaker to excessive moisture or extreme temperatures.
- Seek professional assistance if you are unsure about any installation steps.

## 3. PRODUCT OVERVIEW

The DS18 PRO-X10M is a high-performance 10-inch midrange loudspeaker designed for clear and powerful audio reproduction. It features robust construction and optimized specifications for demanding audio environments.

### Key Features:

- **High Power Handling:** 300W RMS and 600W Max power handling for exceptional performance.
- **Wide Frequency Response:** Ranges from 100Hz to 5KHz, ensuring accurate midrange and high frequencies.

- **High Sensitivity:** 96dB sensitivity for loud, clear, and distortion-free sound.
- **Durable Construction:** Built for longevity and consistent performance.
- **Compact Mounting Depth:** 3.77 inches (96mm) for flexible installation.
- **Voice Coil:** High efficiency 2-inch Kapton voice coil.
- **Basket Material:** Oversized DS18 tooled steel basket in glossy red.

### What's in the Box:

- 1 x DS18 PRO-X10M Midrange Speaker



Image 3.1: Front view of the DS18 PRO-X10M 10-inch Midrange Loudspeaker.



Image 3.2: Visual representation of key specifications including 300W RMS, 600W MAX power, 8 Ohms impedance, 10-inch

size, and non-pressed paper cone.

## MID-RANGE LOUDSPEAKER



Image 3.3: Details on the high-efficiency 2-inch Kapton voice coil, 96dB sensitivity, and 100Hz-5KHz frequency response.

## 4. SETUP AND INSTALLATION

Careful installation is crucial for optimal sound quality and product longevity. Follow these guidelines for setting up your PRO-X10M loudspeaker.

### Mounting:

1. Choose a suitable mounting location, typically a door panel or custom enclosure, ensuring sufficient clearance behind the speaker.
2. Measure and mark the cutout area. The recommended front mount baffle cutout diameter is 9.05 inches (230mm).
3. Cut the opening carefully, ensuring a clean edge.
4. Drill pilot holes for the mounting screws.
5. Position the speaker and secure it with appropriate screws, ensuring not to overtighten.

### Wiring:

1. Connect the positive (+) terminal of the speaker to the positive (+) output of your amplifier.
2. Connect the negative (-) terminal of the speaker to the negative (-) output of your amplifier.
3. Ensure all connections are secure and free from corrosion.
4. Verify the impedance of your amplifier matches the 8-Ohm impedance of the speaker, or that your amplifier is stable at the combined impedance if using multiple speakers.

# PRO-X10M

DS18



OVERALL  
DIAMETER  
10.07"  
256MM



MOUNTING  
DEPTH  
3.78" / 96MM



FRONT MOUNT  
BAFFLE CUT OUT  
9.05" / 230MM

Image 4.1: Detailed dimensions including overall diameter (10.07 inches / 256mm), mounting depth (3.78 inches / 96mm), and front mount baffle cutout (9.05 inches / 230mm).

HIGH EFFICIENCY 2" KAPTON VOICE COIL



Image 4.2: Illustration of the 3.77-inch mounting depth and the glossy red steel basket material.

## 5. OPERATING INSTRUCTIONS

Once installed, follow these steps to operate your DS18 PRO-X10M loudspeaker:

- 1. Connect to Amplifier:** Ensure the speaker is correctly wired to a compatible amplifier.
- 2. Power On:** Turn on your audio system and amplifier.
- 3. Initial Volume Setting:** Start with the amplifier's gain and head unit volume at their lowest settings.
- 4. Adjust Gain:** Gradually increase the amplifier's gain until the desired volume is achieved without distortion. Avoid setting the gain too high, as this can damage the speaker.
- 5. Crossover Settings:** For optimal performance and protection, use a high-pass filter (HPF) on your amplifier or head unit. A recommended starting point for the HPF is around 120-150Hz, with a slope of 12dB or 24dB per octave, to prevent low frequencies from reaching the midrange speaker.
- 6. Break-in Period:** Allow a break-in period of approximately 10-20 hours of moderate listening before operating at full power. This allows the speaker's suspension to loosen and perform optimally.

## 6. MAINTENANCE

Regular maintenance helps preserve the performance and appearance of your loudspeaker.

- Cleaning:** Use a soft, dry cloth to gently wipe the speaker cone and surround. Avoid using harsh chemicals or abrasive cleaners.
- Inspection:** Periodically check speaker terminals and wiring for secure connections and signs of corrosion or damage.
- Environmental Protection:** If installed in a vehicle, ensure the speaker is protected from direct sunlight, extreme temperatures, and moisture.

## 7. TROUBLESHOOTING

If you encounter issues with your PRO-X10M loudspeaker, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No Sound	Loose or incorrect wiring; Amplifier off or in protect mode; Head unit issue.	Check all wiring connections; Verify amplifier power and status; Test with another audio source.
Distorted Sound	Amplifier gain too high; Incorrect crossover settings; Speaker over-powered or under-powered; Damaged speaker.	Reduce amplifier gain; Adjust crossover settings (HPF); Ensure amplifier power matches speaker RMS; Inspect speaker for physical damage.
Weak or Muffled Sound	Incorrect polarity (out of phase); Insufficient power; Poor quality audio source.	Check speaker wiring for correct positive/negative connections; Ensure adequate power supply to amplifier; Use a high-quality audio source.
Intermittent Sound	Loose connections; Damaged wiring; Amplifier overheating.	Secure all connections; Inspect wiring for breaks or shorts; Ensure proper ventilation for amplifier.

If the problem persists after attempting these solutions, please contact DS18 customer support.

## 8. SPECIFICATIONS

Detailed technical specifications for the DS18 PRO-X10M 10-Inch Midrange Loudspeaker:

Specification	Value
Model Name	PRO-X10M
Speaker Type	Midrange
Speaker Size	10 Inches
Impedance	8 Ohm
RMS Power	300 Watts
Maximum Output Power	600 Watts
Frequency Response	100Hz - 5KHz
Signal-to-Noise Ratio (Sensitivity)	96 dB
Mounting Depth	3.78 inches (96mm)
Overall Diameter	10.07 inches (256mm)
Front Mount Baffle Cutout	9.05 inches (230mm)
Voice Coil	2-inch Kapton
Material	Ferrite Magnet, Steel Basket
Color	Classic (Red Basket)
Item Weight	2.99 pounds (1.36 Kilograms)

Specification	Value
UPC	663593055774

## 9. WARRANTY INFORMATION

The DS18 PRO-X10M loudspeaker comes with a **Limited Warranty**. Please refer to the official DS18 website or your purchase documentation for specific terms, conditions, and duration of the warranty. This warranty typically covers manufacturing defects and material flaws under normal use. Damage resulting from improper installation, abuse, accident, or unauthorized modifications is generally not covered.

## 10. SUPPORT

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

- **Website:** Visit the official [DS18 website](#) for product information, FAQs, and support resources.
- **Contact:** Refer to the 'Contact Us' section on the DS18 website for phone numbers or email support.

When contacting support, please have your product model number (PRO-X10M) and proof of purchase readily available.

### Related Documents - PRO-X10M

	<p><a href="#">DS18 100CT500-8 10-Inch Octagonal Midrange Loudspeaker - Specifications and Owner's Manual</a></p> <p>Detailed specifications, measurements, motor details, Thiele &amp; Small parameters, and warranty information for the DS18 100CT500-8 10-inch octagonal midrange loudspeaker. Engineered and designed in the USA.</p>
	<p><a href="#">DS18 PRO-GM8.4B 8-Inch Midrange Loudspeaker Owner's Manual</a></p> <p>Owner's manual for the DS18 PRO-GM8.4B 8-inch midrange loudspeaker with bullet, featuring detailed specifications, Thiele &amp; Small parameters, and measurements. Includes power handling, impedance, frequency response, and dimensions.</p>
	<p><a href="#">DS18 PRO-X10.4M 10-Inch Midrange Loudspeaker   Technical Specifications and Owner's Manual</a></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>



### [DS18 PRO-X10BM 10" Midrange Loudspeaker - 600W Max, 8 Ohm](#)

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.



### [DS18 PRO-FU8.8 8-Inch Mid-High Loudspeaker Owner's Manual](#)

Comprehensive owner's manual for the DS18 PRO-FU8.8 8-inch mid-high loudspeaker. This document details technical specifications, motor components, Thiele/Small parameters, and physical measurements for the loudspeaker, designed and engineered in the USA.



### [DS18 PRO-SM69.2 6x9" Slim Motorcycle Midrange Loudspeaker Owner's Manual](#)

Owner's manual for the DS18 PRO-SM69.2, a 6x9-inch slim motorcycle midrange loudspeaker with a water-resistant cone. Features detailed specifications, Thiele/Small parameters, and measurement data.

## Documents - DS18 – PRO-X10M



### [\[pdf\] User Manual Owner's Manual Specifications Datasheet](#)

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**PRO-X10M 10 MIDRANGE LOUDSPEAKER** MAX Power Handling: 600 Watts RMS Power Handling: 300 Watts Frequency Response: 100Hz-5KHz Voice Coil Material: Kapton Voice Coil Diameter: 2 / 50.8 mm Nominal Impedance: 8 ohms Mounting Depth: 3.78 / 96mm Sensitivity 1W/1M : 96dB Magnet Material: Ferrite Magnet... lang:en score:38 filesize: 425.24 K page\_count: 2 document date: 2020-05-26

### [\[pdf\] User Manual](#)

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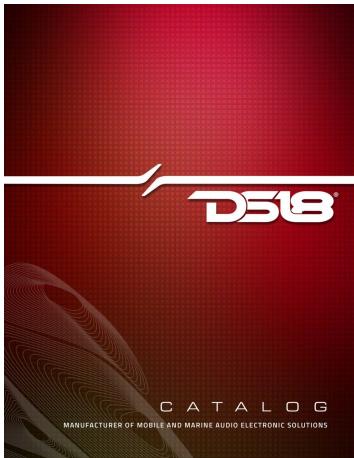


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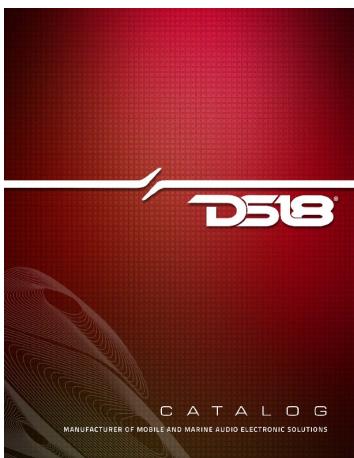
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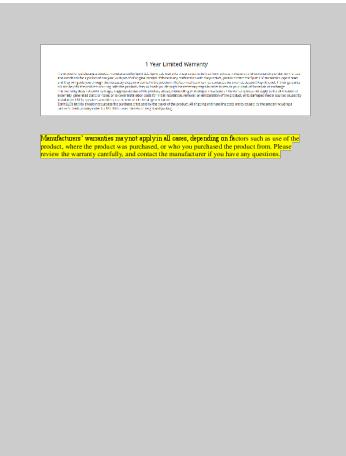
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### [\[pdf\] Warranty](#)

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