

DS18 PRO-GM8B

DS18 PRO-GM8B 8-Inch Midrange Loudspeaker Instruction Manual

Model: PRO-GM8B | Brand: DS18

1. INTRODUCTION

This manual provides detailed instructions for the proper installation, operation, and maintenance of your DS18 PRO-GM8B 8-inch midrange loudspeaker. The PRO-GM8B is designed to deliver clear and powerful midrange audio, enhancing your car or truck stereo sound system. Please read this manual thoroughly before installation and use to ensure optimal performance and longevity of your product.

2. WHAT'S IN THE BOX

- 1 x DS18 PRO-GM8B 8-Inch Midrange Loudspeaker
- 1 x Instruction Manual

3. KEY FEATURES

- **Midrange Performance:** Engineered to reproduce the critical mid-frequency range with clarity, suitable for both instrumental and vocal reproduction.
- **High Power Handling:** Delivers an impressive 580W Max Power with 190W RMS at 8 Ohms, providing robust audio output.
- **Durable Voice Coil:** Features a 1.5-inch high-temperature Kapton voice coil, designed for extreme heat resistance and structural integrity, ensuring extended product life.
- **Enhanced Sound:** Designed to upgrade and improve upon stock stereo systems, offering a true midrange audio experience.
- **Bullet Dust Cover:** Includes a specifically designed red aluminum bullet dust cover that protects the voice coil and contributes to optimal sound dispersion.

4. TECHNICAL SPECIFICATIONS

Feature	Specification
Model Name	PRO-GM8B
Speaker Type	Midrange Speaker
Speaker Size	8 Inches
RMS Power	190W
MAX Power	580W
Impedance	8 Ohms
Frequency Response	125-12KHz
Sensitivity	95dB
Voice Coil Size	1.5 Inches
Magnet Size	30 oz
Mounting Depth	3.38 Inches (86mm)
Cut-out Dimension	7.16 Inches (182mm)
Material	Paper, Fabric, Steel
Product Dimensions	8.23"D x 8.23"W x 3.39"H
Item Weight	4.73 pounds

5. SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of your loudspeaker. If you are unsure about any steps, it is recommended to seek professional assistance.

5.1 Mounting

- Choose Location:** Select a suitable mounting location in your vehicle, typically car doors or custom enclosures, ensuring sufficient space for the speaker's dimensions (Mounting Depth: 3.38 inches, Cut-out Dimension: 7.16 inches).
- Prepare Opening:** Carefully cut an opening of 7.16 inches (182mm) diameter. Ensure the mounting surface is stable and free from obstructions.
- Secure Speaker:** Place the speaker into the prepared opening. Use appropriate screws to secure the speaker firmly to the mounting surface. Avoid over-tightening.

5.2 Wiring

The PRO-GM8B loudspeaker has an impedance of 8 Ohms. Ensure your amplifier is compatible with this impedance and can provide the recommended RMS power of 190W. Connect the speaker wires to the appropriate terminals on the speaker and your amplifier, observing correct polarity (positive to positive, negative to negative) to prevent phase issues.

For optimal sound quality and to prevent damage, it is recommended to use a crossover to filter frequencies below 125Hz, as this speaker is designed for midrange reproduction.



Figure 1: Front view of the DS18 PRO-GM8B 8-inch Midrange Loudspeaker with its distinctive red aluminum bullet.



Figure 2: Side view of the DS18 PRO-GM8B, highlighting the terminals for wiring connections and the ferrite magnet structure.



Figure 3: Rear view of the DS18 PRO-GM8B, showing the black stamp steel basket, ferrite magnet, and the product specification label.

6. OPERATING YOUR LOUDSPEAKER

Once properly installed and wired, your DS18 PRO-GM8B loudspeaker is ready for operation. Begin with your audio system's volume at a low setting and gradually increase it to your desired listening level. Pay attention to any signs of distortion or strain from the speakers, which may indicate excessive power or improper settings.

For optimal sound, consider fine-tuning your audio system's equalizer and crossover settings to complement the speaker's frequency response (125-12KHz).

7. MAINTENANCE

To ensure the longevity and performance of your DS18 PRO-GM8B loudspeaker, follow these simple maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to gently wipe the speaker cone and frame. Avoid using harsh chemicals or abrasive materials.
- **Inspection:** Periodically check wiring connections for tightness and ensure no wires are frayed or exposed.
- **Avoid Overpowering:** Do not exceed the recommended RMS power of 190W to prevent damage to the voice coil.

8. TROUBLESHOOTING

If you experience issues with your loudspeaker, refer to the following common troubleshooting steps:

- **No Sound:** Check all wiring connections to ensure they are secure and correctly polarized. Verify the amplifier is powered on and functioning.
- **Distorted Sound:** Reduce the volume level. Check amplifier gain settings and ensure they are not set too high. Verify crossover settings are appropriate for midrange speakers.
- **Intermittent Sound:** Inspect wiring for loose connections or damage. Ensure the speaker terminals are clean and free from corrosion.

If problems persist after attempting these steps, contact DS18 customer support or a qualified audio technician.

9. PRODUCT VIDEOS

9.1 DS18 PRO-GM8B Loudspeaker Overview

Your browser does not support the video tag.

This video provides a brief overview of the DS18 PRO-GM8B 8-inch midrange loudspeaker, showcasing its design and key features.

9.2 DS18 PRO-GM8 Loudspeaker Overview

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This video presents an overview of the DS18 PRO-GM8 loudspeaker, a model very similar to the PRO-GM8B, offering insights into the PRO-GM series' characteristics.

10. WARRANTY AND SUPPORT

The DS18 PRO-GM8B loudspeaker comes with a Limited Warranty. For specific warranty terms and conditions, please refer to the documentation included with your purchase or visit the official DS18 website.

For technical support, troubleshooting assistance, or any inquiries regarding your product, please contact DS18 customer service. You can also visit the official DS18 store for more information and product resources: [DS18 Store](#).