

DS18 6XL600-4

DS18 6XL600-4 XL 6.5" Mid-Range Loudspeaker Instruction Manual

Brand: DS18

Model: 6XL600-4

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your DS18 6XL600-4 XL 6.5" Mid-Range Loudspeaker. Please read it thoroughly before use to ensure optimal performance and longevity of your product.

Key Features:

- Unmatched Power:** Delivers an impressive 300W RMS and peak power of 600W for powerful, clear sound.
- High Sensitivity:** With a sensitivity rating of 97dB, it transforms quiet audio details into an immersive experience.
- Wide Frequency Response:** Covers frequencies from 60Hz to 12.5KHz, capturing nuances from deep bass to high trebles.
- Premium Construction:** Features a custom-tooled, satin black aluminum basket for stability and distortion-free listening.
- Efficient Heat Management:** Strategically designed ventilation system allows for effective heat dissipation during prolonged high-volume sessions.

AUDIO XL-ENCE

6.5" Mid-Range Loudspeakers

6XL600-4

4 OHMS

300W RMS

600W MAX

6.5 INCHES



Image: The DS18 6XL600-4 XL 6.5" Mid-Range Loudspeaker, highlighting its 4 Ohms impedance, 300W RMS, 600W Max power, and 6.5 inches size.

SPECIFICATIONS

Model	6XL600-4
Type	Mid-Range Loudspeaker
Nominal Diameter	6.5 inches (165mm)
RMS Power Handling	300 Watts
MAX Power Handling	600 Watts
Nominal Impedance	4 Ohms
Sensitivity (1w/1m)	97 dB

Frequency Response	60Hz - 12.5KHz
Voice Coil Diameter	2 inches (50.8mm)
Magnet Material	Ferrite
Magnet Weight	34 oz
Mounting Depth	3.44 inches (87.5mm)
Cut-out Dimension	5.9 inches (150mm)
Net Weight	5.95 pounds (2.7 kg)



Image: Rear view of the DS18 6XL600-4 loudspeaker, displaying the large ferrite magnet and the red aluminum basket structure.

WHAT'S IN THE Box

- DS18 6XL600-4 XL 6.5" Mid-Range Loudspeaker
- Instruction Manual

SETUP AND INSTALLATION

Proper installation is crucial for the performance and safety of your loudspeaker. It is recommended to have this product installed by a professional car audio technician.

Pre-Installation Checklist:

1. Ensure your vehicle's battery is disconnected before starting any electrical work.

2. Verify the impedance of your amplifier matches the 4-ohm impedance of the loudspeaker.
3. Confirm adequate mounting depth (3.44" / 87.5mm) and cut-out dimensions (5.9" / 150mm) in your desired installation location.
4. Use appropriate gauge speaker wire (e.g., 12-gauge) for optimal power transfer.

Wiring Diagram:

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 free from short circuits.



Image: Close-up view of the loudspeaker's push terminals, indicating positive and negative connections for wiring.

OPERATING INSTRUCTIONS

Once properly installed, your DS18 6XL600-4 loudspeaker is ready for operation. Follow these guidelines for optimal sound quality and speaker longevity:

- **Initial Power-Up:** Start with your amplifier's gain settings at their lowest. Gradually increase the volume to a comfortable listening level.
- **Crossover Settings:** For best performance and to protect the speaker, set your amplifier's high-pass filter (HPF) to 60Hz or higher. Avoid playing frequencies below 60Hz directly through this mid-range loudspeaker.
- **Volume Control:** Avoid excessive volume levels that cause audible distortion or speaker cone excursion beyond its normal limits.
- **Break-in Period:** Allow for a break-in period of approximately 10-20 hours of moderate listening before pushing the speakers to their maximum capabilities. This allows the speaker's suspension to loosen up and perform optimally.

MAINTENANCE

Regular maintenance will help preserve the performance and appearance of your loudspeaker:

- **Cleaning:** Use a soft, dry cloth to wipe down the speaker cone and frame. Avoid using harsh chemicals or abrasive cleaners.
- **Inspection:** Periodically check speaker connections for tightness and ensure no wires are frayed or exposed.
- **Environmental Protection:** Protect the speakers from direct sunlight, extreme temperatures, and moisture.

TROUBLESHOOTING

No Sound:

- Check all wiring connections from the amplifier to the speaker.
- Verify the amplifier is powered on and functioning correctly.
- Ensure the audio source is playing and properly connected.

Distorted Sound:

- Reduce the volume level.
- Check amplifier gain settings; they may be too high.
- Verify proper crossover settings to prevent the speaker from playing frequencies outside its optimal range.
- Inspect speaker cone for any physical damage.

Low Volume:

- Increase the amplifier gain gradually.
- Ensure speaker polarity is correct (+ to + and - to -). Incorrect polarity can cause phase cancellation and reduced output.

WARRANTY AND SUPPORT

Your DS18 6XL600-4 XL 6.5" Mid-Range Loudspeaker comes with a limited manufacturer's warranty against defects in materials and workmanship. Please refer to the included warranty card for specific terms and conditions.

For technical support, troubleshooting assistance, or warranty claims, please contact DS18 Customer Service through their official website or the contact information provided on your product packaging.

Official Website: www.ds18.com



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

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