

DS18 6XL600-8

DS18 6XL600-8 XL 6.5" Mid-Range Loudspeaker Instruction Manual

MODEL: 6XL600-8

Brand: DS18

PRODUCT OVERVIEW

The DS18 6XL600-8 is a high-performance 6.5-inch mid-range loudspeaker designed for professional car audio systems. It delivers clear and powerful sound with a robust construction for durability and optimal acoustic performance. This speaker is engineered to provide a wide frequency response and high sensitivity, ensuring an immersive audio experience.

WHAT'S IN THE BOX

- DS18 6XL600-8 Mid-Range Loudspeaker (1 unit)
- Instruction Manual

TECHNICAL SPECIFICATIONS

Model	6XL600-8
Type	Mid-Range Loudspeaker
Size	6.5 inches

RMS Power	300 Watts
MAX Power	600 Watts
Impedance	8 Ohm
Sensitivity (1W/1m)	97dB
Frequency Response	60Hz-12.5KHz
Voice Coil Diameter	2 inches
Magnet Material	Ferrite
Magnet Weight	34 oz
Mounting Depth	3.44 inches (87.5mm)
Cut-out Dimension	5.9 inches (150mm)
Frame Material	Red Aluminum Basket
Cone Material	Non-Pressed Paper Cone

SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and longevity of your DS18 6XL600-8 loudspeaker. It is recommended to have professional installation for car audio components.

Mounting the Speaker

Ensure the mounting location has sufficient depth (3.44 inches) and a cut-out diameter of 5.9 inches. Use appropriate mounting hardware to secure the speaker firmly, minimizing vibrations.



Image: Front view of the DS18 6XL600-8 speaker, showing the non-pressed paper cone and DS18 logo.



Image: Back view of the DS18 6XL600-8 speaker, highlighting the push-to-connect terminals for wiring.

Wiring and Connections

Connect the speaker to a compatible amplifier. Ensure correct polarity (+ to + and - to -) to avoid phase issues. The speaker has an 8-Ohm impedance and can handle up to 300W RMS power. Match the amplifier's output impedance and power to the speaker's specifications for optimal performance and to prevent damage.

The strategically designed ventilation system helps dissipate heat, ensuring reliable performance during prolonged high-volume use.

OPERATING INSTRUCTIONS

Once installed and wired correctly, your DS18 6XL600-8 loudspeaker is ready for operation. Follow these guidelines for the best audio experience:

- **Amplifier Settings:** Set your amplifier's gain levels appropriately. Start with low gain and gradually increase it until you achieve desired volume without distortion.

- **Crossover Settings:** Utilize your amplifier's or head unit's crossover functions. For mid-range speakers, a high-pass filter is typically recommended to prevent low frequencies from reaching the speaker, which can cause distortion and damage. Refer to your amplifier's manual for specific crossover frequency recommendations.
- **Volume Control:** Avoid excessive volume levels that lead to audible distortion. Distortion can damage the speaker over time.

MAINTENANCE AND CARE

To ensure the longevity and continued performance of your DS18 6XL600-8 loudspeaker, follow these maintenance tips:

- **Cleaning:** Use a soft, dry cloth to gently wipe the speaker cone and frame. Avoid using harsh chemicals or abrasive materials that could damage the speaker's components.
- **Environmental Conditions:** Protect the speaker from direct exposure to excessive moisture, extreme temperatures, and direct sunlight for prolonged periods. While the aluminum basket offers durability, consistent exposure to harsh elements can degrade performance.
- **Inspection:** Periodically inspect the speaker for any signs of damage, loose connections, or wear and tear. Address any issues promptly to prevent further problems.

TROUBLESHOOTING

If you encounter issues with your DS18 6XL600-8 loudspeaker, refer to the following common troubleshooting steps:

- **No Sound:**
 - Check all wiring connections from the amplifier to the speaker for secure contact and correct polarity.
 - Verify that the amplifier is powered on and functioning correctly.
 - Ensure the audio source (head unit, media player) is active and sending a signal.
- **Distorted Sound:**
 - Reduce the amplifier's gain setting. Excessive gain can lead to clipping and distortion.
 - Check the crossover settings. Incorrect crossover points can cause the speaker to play frequencies it's not designed for, leading to distortion.
 - Inspect the speaker cone for any physical damage.
- **Low Volume:**
 - Increase the amplifier's gain gradually.
 - Ensure the audio source's volume is turned up.
 - Check for any loose or corroded wiring connections that might impede signal flow.

Images



Image: DS18 6XL600-8 speaker shown in its retail packaging.



Image: DS18 6XL600-8 speaker with a clear view of the wiring terminals.



Image: Front view of the DS18 6XL600-8 speaker, highlighting the cone and logo.



Image: Top-down view of the DS18 6XL600-8 speaker.



Image: Side view of the DS18 6XL600-8 speaker, showing its profile.



Image: Close-up view of the DS18 6XL600-8 speaker's push terminals.





Image: Back view of the DS18 6XL600-8 speaker, showing the magnet and frame design.

Videos

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Video: DS18 Mid-Range Loudspeakers overview. This video provides a general overview of DS18's mid-range loudspeaker line, including features and design.

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Video: DS18 PRO XA 6.5 10th Anniversary Series Speaker. This video showcases the 10th Anniversary edition of the DS18 PRO XA 6.5 speaker, highlighting its design and features.

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Video: PRO-GM6B Midrange loudspeaker Specs. This video details the specifications of the PRO-GM6B midrange loudspeaker, providing technical insights.

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Video: DS18 6.5" Pro Audio Midrange Speakers with Black Bullet Tweeter. This video features the DS18 6.5" Pro Audio Midrange Speakers, showcasing their design and the integrated black bullet tweeter.

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Video: PRO-X6.4BMPK Tech Talk and Specs. This video provides a technical discussion and detailed specifications for the PRO-X6.4BMPK speaker.

WARRANTY AND SUPPORT

The DS18 6XL600-8 Mid-Range Loudspeaker comes with a Limited Warranty. For detailed warranty terms, service,

or technical support, please refer to the official DS18 website or contact their customer service.

You can visit the [DS18 Store](#) for more products and information.