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DS18 NXL-6SLBK

DS18 NXL-6SL/BK Marine Slim Speaker Instruction Manual

Model: NXL-6SLBK

1. INTRODUCTION

Thank you for choosing the DS18 NXL-6SL/BK Marine Slim Speaker. This 6.5-inch, 2-way speaker is designed for marine and off-road vehicle audio systems, offering 100W Max power and 25W RMS power. It features IP65 marine-grade specifications, 100% UV stability, and integrated RGB LED lighting, making it suitable for all elements in UTVs, ATVs, Jeeps, and boats. This manual provides essential information for proper installation, operation, and maintenance to ensure optimal performance and longevity of your speakers.

2. SAFETY INFORMATION

- Always wear appropriate safety gear, including eye protection, during installation.
- Disconnect the vehicle's battery before beginning any electrical work to prevent short circuits.
- Ensure all wiring is properly insulated and secured to prevent damage from vibration or moisture.
- Do not operate speakers at excessive volumes for prolonged periods, as this can cause hearing damage and speaker damage.
- Consult a professional installer if you are unsure about any part of the installation process.

3. PACKAGE CONTENTS

- DS18 NXL-6SL/BK 6.5" Marine Slim Speakers (Pair)

4. FEATURES

- **Speaker Type:** 6.5-inch 2-Way Coaxial Marine Speaker
- **Power Handling:** 100 Watts Max, 25 Watts RMS

- **Impedance:** 4 Ohms
- **Frequency Response:** 90Hz - 20KHz
- **Sensitivity:** 90dB
- **Voice Coil:** 1 inch
- **Magnet Type:** 5.3 oz
- **Durability:** IP65 Marine Grade, 100% UV Stable, Water Resistant Injection Cone
- **Lighting:** Integrated RGB LED Lighting
- **Design:** Slim profile for versatile mounting options

5. SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of your DS18 NXL-6SL/BK speakers. Follow these guidelines carefully:

5.1 Mounting Location

Choose a mounting location that is flat, stable, and provides sufficient clearance for the speaker's dimensions. Ensure the location is free from obstructions and allows for proper wiring routing. The slim design of these speakers allows for installation in tight spaces.

NXL-6SL/BK

DS18



OVERALL
DIAMETER
7.01"
178MM



MOUNTING
DEPTH
0.98"
25MM



FRONT MOUNT
BAFFLE CUT OUT
5.16" / 131MM

Image: Diagram showing the dimensions of the DS18 NXL-6SL/BK speaker, including overall diameter (7.01" / 178mm), front mount baffle cutout (5.16" / 131mm), and mounting depth (0.98" / 25mm).

5.2 Mounting Dimensions

- **Overall Diameter:** 7.01" (178mm)
- **Front Mount Baffle Cutout:** 5.16" (131mm)
- **Mounting Depth:** 0.98" (25mm)
- **Overall Depth:** 1.85" (47mm)

5.3 Installation Steps

1. Carefully mark the cutout area using the provided template (if applicable) or the specified dimensions.
2. Cut the opening using an appropriate tool, ensuring clean edges.
3. Route speaker wires from your amplifier or head unit to the mounting location.
4. Connect the speaker wires to the terminals on the back of the speaker. Ensure correct polarity (positive to positive, negative to negative).
5. For the integrated RGB LED lighting, connect the LED wires to a compatible RGB LED controller (sold separately).

- Carefully place the speaker into the cutout and secure it using the provided mounting hardware. Do not overtighten.



Image: Side view of the DS18 NXL-6SL/BK speaker, illustrating the compact design and wiring terminals.

6. OPERATING INSTRUCTIONS

6.1 Audio Playback

Once installed and wired correctly to your amplifier or head unit, turn on your audio system. Start with the volume low and gradually increase it to a comfortable listening level. Ensure the audio source is playing and all connections are secure if no sound is heard.

6.2 RGB LED Lighting Control

The NXL-6SL/BK speakers feature integrated RGB LED lighting. To control the color, brightness, and lighting patterns, an external RGB LED controller (not included) is required. Connect the speaker's RGB wires to the corresponding outputs on your controller. Refer to your RGB LED controller's manual for specific operation instructions.



Image: Speaker with Red LED



Image: Speaker with Green LED



Image: Speaker with Blue LED

7. MAINTENANCE

To maintain the performance and appearance of your marine speakers, follow these maintenance tips:

- **Cleaning:** Regularly clean the speaker grilles and cones with a soft, damp cloth. Avoid using harsh chemicals or abrasive cleaners, as these can damage the speaker's finish and materials.
- **Inspection:** Periodically inspect all wiring connections for corrosion or damage, especially in marine environments. Ensure all mounting hardware remains secure.
- **Protection:** While the speakers are UV stable and water-resistant, prolonged exposure to extreme conditions can still affect their lifespan. Consider using protective covers when the vehicle or boat is stored for extended periods.

8. TROUBLESHOOTING

If you encounter issues with your DS18 NXL-6SL/BK speakers, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No sound from speakers	Loose or incorrect wiring connections; Amplifier off or faulty; Head unit issue.	Check all speaker and amplifier wiring for secure connections and correct polarity. Ensure amplifier is powered on and functioning. Verify head unit output.
Distorted sound	Volume too high; Amplifier gain set too high; Damaged speaker cone; Incorrect impedance match.	Reduce volume. Adjust amplifier gain settings. Inspect speaker cones for visible damage. Ensure amplifier and speaker impedance match.
RGB LEDs not working	Loose LED wiring; Faulty RGB controller; No power to controller.	Check LED wiring connections to the controller. Ensure the RGB controller is powered and functioning correctly.
Intermittent sound	Loose connections; Damaged wiring; Overheating amplifier.	Inspect all wiring for damage or loose connections. Check amplifier for overheating.

9. SPECIFICATIONS

Feature	Specification
Model Name	NXL-6SLBK
Speaker Type	Coaxial
Speaker Size	6.5 Inches
RMS Power	25 Watts
Max Power	100 Watts
Impedance	4 Ohms
Frequency Response	90Hz - 20KHz
Sensitivity	90 dB
Voice Coil	1 Inch
Magnet Type	5.3 oz
Overall Diameter	7.01" (178mm)
Front Mount Baffle Cutout	5.16" (131mm)
Mounting Depth	0.98" (25mm)
Overall Depth	1.85" (47mm)
Water Resistance Level	IP65 Marine Grade, Waterproof
UV Stable	Yes
Included Components	Speaker (Pair)
Material	Polypropylene
Item Weight	2.72 pounds (1.24 Kilograms)

10. WARRANTY AND SUPPORT

10.1 Warranty Information

The DS18 NXL-6SL/BK speakers come with a Limited Warranty. Please refer to the official DS18 website or contact customer support for detailed warranty terms and conditions, including coverage period and claim procedures.

10.2 Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please visit the official DS18 website or contact their customer support team. You can find more information and contact details on the [DS18 Brand Store](#).

