

DS18 NXL-8M/BK

DS18 NXL-8M/BK 8-Inch 2-Way Marine Coaxial Speaker User Manual

Model: NXL-8M/BK

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your DS18 NXL-8M/BK 8-inch 2-Way Marine Coaxial Speakers. These speakers are designed for high-performance audio in marine and off-road environments, featuring integrated RGB lighting and water-resistant construction. Please read this manual thoroughly before installation and use to ensure proper function and longevity of your product.

2. SAFETY INFORMATION

- Always disconnect the vehicle's battery before beginning any electrical work.
- Ensure all wiring is properly insulated and secured to prevent short circuits and damage.
- Use appropriate personal protective equipment (PPE) during installation, such as safety glasses.
- Do not operate speakers at excessively high volumes for prolonged periods, as this may cause hearing damage.
- Consult a professional installer if you are unsure about any part of the installation process.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- DS18 NXL-8M/BK Marine Speakers (Pair)
- Detachable Stainless-Steel Mesh Grills
- Silicone Covers
- Mounting Hardware (Screws, Gaskets)



Image 3.1: A pair of DS18 NXL-8M/BK marine speakers, showcasing their red RGB lighting and the included silicone cover.

4. PRODUCT FEATURES

The DS18 NXL-8M/BK speakers incorporate advanced features for robust audio performance and durability:

- **2-Way Coaxial Design:** Features an integrated tweeter for full-range sound reproduction.
- **Integrated RGB Lighting:** Customizable LED lighting to match your vehicle's aesthetic. Requires an external LED-BTC controller (sold separately).
- **Marine Grade IP65 Compliant:** Designed to withstand water exposure, making them suitable for marine and outdoor applications.
- **Detachable Stainless-Steel Mesh Grills:** Provides protection and allows for customization, including painting.
- **New Silicone Cover:** Adds an extra layer of protection against harsh environmental conditions.
- **High-Quality Components:** Includes a Y35 Ferrite main magnet, reverse N40H Neodymium magnet, 25mm Titanium Dome PEI Surround Tweeter, and a waterproof compressed paper cone with carbon fiber.

5. SPECIFICATIONS

Specification	Value
Model Name	NXL-8M/BK
Speaker Type	Coaxial, Outdoor
Continuous Power Handling (RMS)	125 Watts per speaker
Peak Music Power Handling (MAX)	375 Watts per speaker
Nominal Impedance	4 Ohms
Sensitivity	91dB
Frequency Response	35Hz-23KHz
Woofer Diameter	8 Inches
Tweeter Size	25mm Titanium Dome PEI Surround
Overall Diameter	8.59" (218.2mm)
Mounting Depth	3.09" (78.5mm)
Front Mount Baffle Cut Out	6.97" (177mm)
Product Dimensions	12 x 4 x 2 inches (approximate shipping dimensions)
Item Weight	10.54 pounds (per pair)
Waterproof Rating	IP65 Marine Grade Compliant
Recommended Vehicle Service Type	UTV, ATV, Jeeps
Control Method (RGB)	App (with LED-BTC controller, sold separately)

NXL-8M/BK

DS18

OVERALL
DIAMETER
8.59"
218.2MM



MOUNTING
DEPTH
3.09"
78.5MM



FRONT MOUNT
BAFFLE CUT OUT
6.97" / 177MM

Image 5.1: Detailed diagram illustrating the critical dimensions for speaker installation, including overall diameter, mounting depth, and front mount baffle cut-out.

6. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and durability. Follow these steps carefully:

6.1 Mounting Location

- Choose a flat, stable surface in your vehicle (UTV, ATV, Jeep, or marine vessel) that can support the speaker's weight and dimensions.
- Ensure there is sufficient clearance behind the mounting surface for the speaker's depth (3.09" / 78.5mm).
- Avoid locations exposed to direct engine heat or excessive vibration.

6.2 Cutting the Mounting Hole

- Using the provided template or the specified cut-out dimension (6.97" / 177mm), carefully mark the mounting hole.
- Use an appropriate cutting tool to create the opening. Ensure the edges are smooth and free of debris.

6.3 Speaker Wiring (Audio)

- Connect the speaker wires from your amplifier or head unit to the speaker terminals.
- Ensure correct polarity: positive (+) to positive (+) and negative (-) to negative (-). Incorrect polarity can lead to poor sound quality.
- Use marine-grade wiring for outdoor applications to prevent corrosion.

6.4 RGB Lighting Wiring

- The integrated RGB lights require connection to an external DS18 LED-BTC controller (sold separately).
- Refer to the LED-BTC controller's manual for specific wiring instructions. Generally, the RGB wires from the speaker connect to the corresponding output channels on the controller.
- Ensure all connections are secure and waterproof.

6.5 Securing the Speaker

- Place the speaker into the mounting hole.
- Align the mounting holes on the speaker frame with the pre-drilled holes on the mounting surface.
- Secure the speaker using the provided screws. Do not overtighten.
- Attach the detachable stainless-steel mesh grill over the speaker.



Image 6.1: An exploded view of the speaker demonstrating the detachable mesh grille, which can be removed for customization or maintenance.



Image 6.2: The speaker with its mesh grille removed, revealing the internal components and blue RGB illumination.

7. OPERATING INSTRUCTIONS

7.1 Audio Playback

- Once installed and wired, turn on your audio source (head unit, amplifier).
- Adjust the volume gradually to a comfortable listening level.
- Avoid operating the speakers at maximum volume for extended periods to prevent damage.

7.2 RGB Lighting Control

- The RGB lighting is controlled via the DS18 LED-BTC controller and its associated mobile application (sold separately).
- Pair your mobile device with the LED-BTC controller via Bluetooth.
- Use the app to select colors, adjust brightness, and choose lighting patterns.



Image 7.1: The speaker illuminated with green RGB lighting, demonstrating the customizable visual effects.

8. MAINTENANCE

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

- **Cleaning:** Use a soft, damp cloth to wipe down the speaker grilles and surfaces. Avoid abrasive cleaners or solvents.
- **Water Resistance:** While IP65 rated, avoid direct high-pressure water jets. After exposure to saltwater, rinse with fresh water to prevent salt buildup and corrosion.
- **Silicone Covers:** Utilize the included silicone covers when the speakers are not in use or during storage to provide additional protection against dust, UV, and moisture.
- **Grille Inspection:** Periodically check the detachable grilles for any signs of damage or loose fasteners.



Image 8.1: The protective silicone cover, designed to shield the speaker from environmental elements when not in use.

9. TROUBLESHOOTING

If you encounter issues with your DS18 NXL-8M/BK speakers, refer to the following common problems and solutions:

- **No Sound:**

- Check all audio wiring connections for proper polarity and secure contact.

- Verify that the amplifier or head unit is powered on and functioning correctly.
- Ensure the volume is turned up on both the audio source and the amplifier.

- **Distorted Sound:**

- Reduce the volume level from the audio source or amplifier.
- Check for loose wiring connections or damaged speaker wires.
- Ensure the amplifier gain settings are not set too high.

- **RGB Lights Not Working:**

- Verify that the DS18 LED-BTC controller is properly connected and powered.
- Check the RGB wiring from the speakers to the controller for secure connections.
- Ensure your mobile device is correctly paired with the LED-BTC controller via Bluetooth.
- Confirm the LED-BTC app is functioning correctly and settings are applied.

- **Intermittent Sound/Lighting:**

- Inspect all wiring for loose connections, corrosion, or damage.
- Check power supply to the amplifier and LED-BTC controller.

10. WARRANTY INFORMATION

DS18 NXL-8M/BK speakers come with a limited warranty. This warranty covers defects in materials and workmanship under normal use. The duration and specific terms of the warranty may vary. Please retain your proof of purchase for warranty claims. For detailed warranty terms and conditions, please visit the official DS18 website or contact customer support.

11. SUPPORT

If you require further assistance or have questions not covered in this manual, please contact DS18 customer support:

- **Website:** www.ds18.com
- **Email:** Refer to the DS18 website for contact information.
- **Phone:** Refer to the DS18 website for contact information.

When contacting support, please have your product model number (NXL-8M/BK) and proof of purchase readily available.