

DS18 NXL8

DS18 NXL8 White Marine Speaker Instruction Manual

Model: NXL8

Designed for all elements, UTV, ATV & Jeeps

PRODUCT OVERVIEW

The DS18 NXL8 White Marine Speakers are 8-inch, 2-way coaxial speakers engineered for harsh marine and off-road environments. They feature IP65 marine-grade compliance and 100% UV stability, ensuring durability and performance in all weather conditions. These speakers are designed to deliver clear and powerful audio with integrated RGB LED lighting for customizable aesthetics.

Key features include:

- **Power Handling:** 125W RMS (each), 375W MAX (each)
- **Impedance:** 4 Ohms
- **Frequency Response:** 35Hz-23KHz
- **Integrated RGB LED Lighting:** Customizable lighting effects (requires separate LED-BTC controller).
- **Durable Construction:** Waterproof Compress Paper Cone with Carbon fiber, Soft PC Damping Glued Surround, PC Injection Molded Composite Basket with UV Coating.
- **Marine Grade:** IP65 rated for water and dust resistance.



Image: A pair of DS18 NXL8 marine speakers with integrated red LED lighting. One speaker is shown with its protective white cover.

PACKAGE CONTENTS

Please verify that all items are present in the package before proceeding with installation:

- 2 x DS18 NXL8 Marine Speakers
- 2 x Speaker Grills
- 2 x Speaker Cables
- Mounting Screws
- Instruction Manual (this document)

SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and longevity of your DS18 NXL8 speakers. It is recommended to have installation performed by a qualified professional if you are unfamiliar with car or marine audio wiring.

Mounting Considerations

Ensure the mounting surface is flat, stable, and free from obstructions. The speakers require a cutout diameter of approximately 6.97 inches (177mm) and a mounting depth of 3.09 inches (78.5mm). Allow sufficient clearance behind the speaker for wiring and ventilation.

NXL-8

DS18


OVERALL
DIAMETER
8.59"
218.2MM



MOUNTING
DEPTH
3.09"
78.5MM



FRONT MOUNT
BAFFLE CUT OUT
6.97" / 177MM

Image: Detailed dimensions for speaker installation, including overall diameter (8.59 inches / 218.2mm), mounting depth (3.09 inches / 78.5mm), and front mount baffle cutout (6.97 inches / 177mm).

Use the provided mounting screws to secure the speakers firmly. Avoid over-tightening, which can damage the speaker frame.

Wiring Instructions

The DS18 NXL8 speakers feature separate wiring for audio and RGB LED lighting. Ensure all connections are secure and properly insulated to prevent short circuits and corrosion, especially in marine environments.

- **Audio Wiring:** Connect the speaker wires to your amplifier's output terminals. Observe correct polarity (positive to positive, negative to negative) for optimal sound performance. The speakers have a nominal impedance of 4 Ohms.
- **RGB LED Lighting Wiring:** The integrated RGB LED lighting requires a separate BT Control Module & App (LED-BTC) for multi-function control. Connect the RGB wires from the speaker to the corresponding outputs on the LED-BTC controller. Refer to the LED-BTC controller's manual for specific wiring diagrams and operation.



Image: An angled view of the DS18 NXL8 speaker, highlighting its integrated blue LED lighting and the durable white grill design.

OPERATING THE SPEAKERS

Once installed and wired, the DS18 NXL8 speakers operate as part of your audio system. The audio output is controlled by your head unit or amplifier.

Audio Playback

Ensure your amplifier is powered on and connected to an audio source. Adjust volume and audio settings (bass,

treble, balance, fader) through your head unit or amplifier to achieve desired sound quality. Avoid excessive volume levels that cause audible distortion, as this can damage the speakers.

RGB LED Lighting Control

The RGB LED lighting is controlled via a separately sold DS18 LED-BTC Bluetooth Control Module & App. Power on the LED-BTC module and use the associated mobile application to select colors, brightness, and lighting patterns. Refer to the LED-BTC module's specific instructions for detailed operation.



Image: The DS18 NXL8 speakers showcasing their integrated RGB LED lighting capabilities with green, red, and blue illumination.

MAINTENANCE

To ensure the longevity and continued performance of your DS18 NXL8 Marine Speakers, follow these maintenance guidelines:

- **Cleaning:** Regularly clean the speaker grills and cones with a soft, damp cloth. For stubborn dirt, a mild soap solution can be used. Avoid abrasive cleaners or high-pressure water sprays, which can damage the speaker components.
- **Inspection:** Periodically inspect the speaker cones, surrounds, and grills for any signs of damage, such as cracks, tears, or corrosion. Check all wiring connections for tightness and signs of wear.
- **UV Protection:** While the speakers are 100% UV stable, prolonged exposure to direct sunlight can still cause cosmetic fading over many years. If possible, cover the speakers when not in use for extended periods, especially in harsh climates.
- **Saltwater Exposure:** After exposure to saltwater, rinse the speakers with fresh water to prevent salt buildup and corrosion.

TROUBLESHOOTING

If you encounter issues with your DS18 NXL8 speakers, refer to the following common troubleshooting steps:

No Sound or Low Sound Output

- **Check Connections:** Ensure all audio wiring (speaker wires to amplifier, amplifier to head unit) is securely connected and free from corrosion.
- **Verify Polarity:** Incorrect speaker wire polarity can lead to weak or distorted sound. Ensure positive (+) is connected to positive and negative (-) to negative.
- **Amplifier Status:** Confirm your amplifier is powered on and not in protection mode. Check its power and ground connections.
- **Audio Source:** Test with a different audio source or media to rule out issues with the source device.
- **Volume Levels:** Ensure volume levels on both the head unit and amplifier are adequately set.

Distorted Sound

- **Gain Settings:** Adjust the gain setting on your amplifier. If the gain is set too high, it can cause distortion.
- **Clipping:** Reduce the volume from your head unit or amplifier if the sound is clipping (a harsh, crackling sound).
- **Speaker Damage:** Inspect the speaker cone and surround for any physical damage.

RGB LED Lights Not Working

- **Controller Connection:** Ensure the RGB LED wires are correctly connected to the DS18 LED-BTC controller.
- **Controller Power:** Verify the LED-BTC controller is receiving power and is turned on.
- **App Functionality:** Check the mobile application for the LED-BTC controller to ensure it's connected and functioning correctly.
- **Wiring Integrity:** Inspect the RGB wiring for any breaks or short circuits.

If these steps do not resolve the issue, contact DS18 customer support for further assistance.

SPECIFICATIONS

Feature	Specification
Model Name	NXL8
Speaker Type	2-Way Coaxial Marine Speaker
Speaker Size	8 Inches
RMS Power Handling (Each)	125 Watts
MAX Power Handling (Each)	375 Watts
Nominal Impedance	4 Ohms

Feature	Specification
Frequency Response	35Hz - 23KHz
Sensitivity	91dB
Waterproof Rating	IP65 Marine Grade
UV Stability	100% UV Stable
Overall Diameter	8.59 inches (218.2mm)
Mounting Depth	3.09 inches (78.5mm)
Front Mount Baffle Cutout	6.97 inches (177mm)
Material	High Temp Injection Molded Composite
Color	White
Item Weight	10 Pounds (for the pair)



Image: Visual representation of key electrical and physical specifications for the DS18 NXL8 speakers.

WARRANTY AND SUPPORT

For detailed warranty information, please refer to the warranty card included with your product or visit the official DS18 website. Warranty terms and conditions may vary by region and product.

If you require technical assistance, have questions about installation, or need to report a defect, please contact DS18 customer support through their official website or the contact information provided in your product packaging.

DS18 Official Website: ds18.com