

Wet Sounds SYN-DX6

Wet Sounds SYN-DX6 6 Channel Class D Marine Amplifier Instruction Manual

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Wet Sounds SYN-DX6 6 Channel Class D Marine Amplifier. Please read this manual thoroughly before installation and use to ensure proper function and safety. Adherence to these guidelines will help maximize the performance and longevity of your amplifier.

SAFETY INFORMATION

- Always disconnect the vehicle's battery before installing or servicing any electrical equipment to prevent electrical shock or damage.
- Ensure proper ventilation for the amplifier to prevent overheating. Mounting in an enclosed space without airflow can lead to thermal shutdown.
- Use appropriate gauge wiring for power and speaker connections as specified in the installation section to avoid electrical hazards and ensure optimal performance.
- Protect all wiring from sharp edges, moving parts, and potential abrasion points. Use grommets and cable ties where necessary.
- Consult a professional installer if you are unsure about any installation steps or electrical connections.
- This product is designed for marine environments. Ensure all connections are properly sealed and protected from water ingress to prevent corrosion and damage.

PRODUCT OVERVIEW

The Wet Sounds SYN-DX6 is a high-performance 6-channel Class D marine amplifier engineered for demanding marine audio applications. It features a compact chassis, thermal overload protection, flexible crossovers, and extended inputs, providing robust and clear audio output.

Key Features:

- **Superior Performance Circuitry:** Utilizes Class D power supplies for high efficiency and significant power output within a compact design.
- **Thermal Overload Protection:** Engineered to maintain internal system temperatures within safe operating limits during extended use, enhancing reliability.

- **Flexible Crossovers:** Allows for precise audio tuning and seamless integration with various Wet Sounds speakers and subwoofers.
- **6-Channel Configuration:** Delivers 125 watts on 4 channels and 150 watts on 2 channels, with 600 watts in bridged mode, making it suitable for powering multiple speakers and subwoofers.
- **Marine Environment Design:** Features a conformal-coated PCB board for protection against moisture and corrosion, ensuring long-lasting durability in saltwater environments.

What's in the Box:

- Wet Sounds SYN-DX6 Amplifier

Product Video Overview

Your browser does not support the video tag.

Video: An overview of the Wet Sounds SYN-DX6 amplifier, demonstrating its features and design. This video provides visual context for the product's capabilities.

SETUP AND INSTALLATION

Mounting the Amplifier

Choose a dry, well-ventilated location for mounting the amplifier, away from direct sunlight, heat sources, and areas prone to excessive moisture. Ensure sufficient space around the amplifier for adequate air circulation to prevent thermal issues.



Image: Top view of the Wet Sounds SYN-DX6 marine amplifier, showcasing its compact design and the Wet Sounds logo. This view helps in identifying suitable mounting locations.

Wiring Connections

Proper wiring is critical for both performance and safety. Refer to the diagram below for detailed connection points and ensure all connections are secure and correctly polarized.



Image: Rear view of the Wet Sounds SYN-DX6 amplifier, detailing the power input (12V, GND, REM), RCA inputs (CH1-CH6), and speaker output terminals (2Ω MIN, 4Ω BRIDGED). This image is essential for correct wiring.

Power Connections:

- **+12V:** Connect to the positive terminal of the battery using an appropriate gauge power cable. An inline fuse (not supplied) must be installed within 18 inches of the battery.

- **GND:** Connect to a clean, unpainted chassis ground point. Ensure a solid electrical connection to the vehicle's frame or battery negative terminal.
- **REM (Remote Turn-On):** Connect to the remote output of your head unit or a switched 12V source. This signal turns the amplifier on and off with your audio system.

Input Connections:

Connect your audio source (head unit) to the RCA input jacks (CH1-CH6). Use high-quality RCA cables to minimize noise and signal loss.

Speaker Connections:

Connect your speakers to the output terminals. Observe correct polarity (+ to + and - to -) for all speakers. The amplifier supports a 2Ω minimum impedance per channel and a 4Ω minimum impedance in bridged mode. Refer to your speaker's specifications for impedance ratings.



Image: Angled view of the Wet Sounds SYN-DX6 amplifier, providing a comprehensive look at all input and output connections from a different perspective, aiding in installation.

OPERATING INSTRUCTIONS

Initial Power-Up

After all connections are made and verified, turn on your audio source. The amplifier should power on automatically via the remote turn-on lead. Observe the power indicator light on the amplifier to confirm it is receiving power and operating correctly.

Gain Adjustment

Adjust the gain controls on the amplifier to match the output voltage of your head unit. Start with the gain at minimum and slowly increase it until you achieve a clear, undistorted sound at your desired maximum volume level. Avoid setting the gain too high, as this can introduce distortion and potentially damage speakers.

Crossover Settings

The SYN-DX6 features flexible crossover settings. Adjust the high-pass filter (HPF) and low-pass filter (LPF) as needed to optimize sound for your specific speaker setup. For full-range speakers, use the HPF to remove low frequencies. For subwoofers, use the LPF to allow only low frequencies to pass through.

MAINTENANCE

- **Regular Cleaning:** Keep the amplifier clean and free of dust, salt spray, and debris. Use a soft, dry cloth for cleaning. Avoid using harsh chemicals, solvents, or abrasive cleaners, as these can damage the finish or internal components.
- **Connection Checks:** Periodically inspect all wiring connections for corrosion, looseness, or signs of wear, especially in harsh marine environments. Tighten any loose connections and clean any corroded terminals.
- **Ventilation:** Ensure that the amplifier's cooling fins and surrounding area are not obstructed. Proper airflow is essential for efficient heat dissipation and to prevent thermal shutdown.

TROUBLESHOOTING

No Power / Amplifier Not Turning On

- Check the main power fuse and the inline fuse on the +12V power cable. Replace if blown.
- Verify all power connections (+12V, GND, REM) are secure and have proper voltage. Use a multimeter to check for 12V at the +12V and REM terminals, and a good ground connection.
- Ensure the remote turn-on lead is receiving 12V from the head unit when the audio system is on.

No Sound Output

- Check all RCA input cables for secure connections and proper signal from the head unit.
- Verify speaker wire connections and ensure correct polarity. Check for any short circuits in the speaker wiring.
- Check crossover settings; ensure they are not set to filter out all frequencies for the connected speakers.
- Confirm the head unit is powered on and outputting audio.

Distorted Sound

- Reduce the gain setting on the amplifier. High gain can lead to clipping and distortion.
- Check for damaged speaker wires or speakers.
- Ensure the input signal from the head unit is not distorted. Try reducing the head unit's volume.

Amplifier Overheating

- Ensure adequate ventilation around the amplifier. Clear any obstructions from the cooling fins.
- Check speaker impedance; ensure it meets the amplifier's minimum requirements (2Ω per channel, 4Ω bridged). Running below minimum impedance can cause overheating.
- Reduce volume or gain settings, especially during prolonged high-output operation.

SPECIFICATIONS

Feature	Specification
---------	---------------

Brand	Wet Sounds
Model Number	SYN-DX6
Number of Channels	6
Output Power (RMS)	125W x 4 channels + 150W x 2 channels (600W bridged)
Voltage	12 Volts (DC)
Mounting Type	Boat Mount
Product Dimensions (L x W x H)	18 x 12 x 5 inches
Item Weight	9 pounds
Material	PCB, Electronic Components
Specification Met	CEA-2006

WARRANTY AND SUPPORT

Warranty Information

The Wet Sounds SYN-DX6 amplifier is covered by a **Limited 2-Year Warranty**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for all warranty claims. The warranty does not cover damage caused by improper installation, abuse, accident, or unauthorized modifications.

Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please contact Wet Sounds customer support. Refer to the official Wet Sounds website (www.wetsounds.com) for current contact information, including phone numbers and email addresses. Have your product model and serial number ready when contacting support.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question