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## Pyle PLMRMP1A

# Pyle Hydra Marine Amplifier User Manual

Model: PLMRMP1A

## PRODUCT OVERVIEW

The Pyle Hydra Marine Amplifier (PLMRMP1A) is a 2-channel waterproof micro amplifier designed to enhance your marine audio system. It delivers powerful sound output and is built to withstand marine environments. This amplifier features versatile input options, including RCA line inputs and a 3.5mm-to-RCA adapter for connecting MP3 players or iPods. It also supports standard high and low-level inputs from marine head units. For user convenience, a wired remote control for volume gain is included. Safety is ensured with built-in power protection circuitry and soft turn on/off functionality to prevent damage to your speaker equipment.



Image: The Pyle Hydra Marine Amplifier (PLMRMP1A) shown with its wired remote control, highlighting its compact design and connectivity.

## WHAT'S IN THE BOX

Upon opening the package, you will find the following components:

- Hydra Series 2-Channel Waterproof iPod/MP3 Marine Power Class AB Amp (PLMRMP1A)
- Waterproof 3.5mm Stereo to RCA Adaptor
- Remote Control for Volume Gain
- Mounting Hardware (screws)

# What's <sup>In</sup> The BOX



Image: A visual representation of the amplifier, remote control, RCA adapter, and necessary cables included in the product packaging.

## SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and longevity of your Pyle Hydra Marine Amplifier. Follow these steps carefully:

### 1. Mounting the Amplifier

The PLMRMP1A is designed for easy and convenient installation with built-in mounting brackets. Choose a secure location, such as a compartment or panel, ensuring it is protected from direct exposure to extreme elements, despite its waterproof rating. Use the included hardware to attach the amplifier firmly.





Image: The compact size of the amplifier is demonstrated alongside its accessories and a ruler, indicating its small footprint for flexible mounting.

## 2. Wiring Connections

Connect the amplifier to your power source and speakers as per the wiring diagram. Ensure all connections are secure and properly insulated to prevent short circuits.

# Power & Speaker Wiring Connectivity

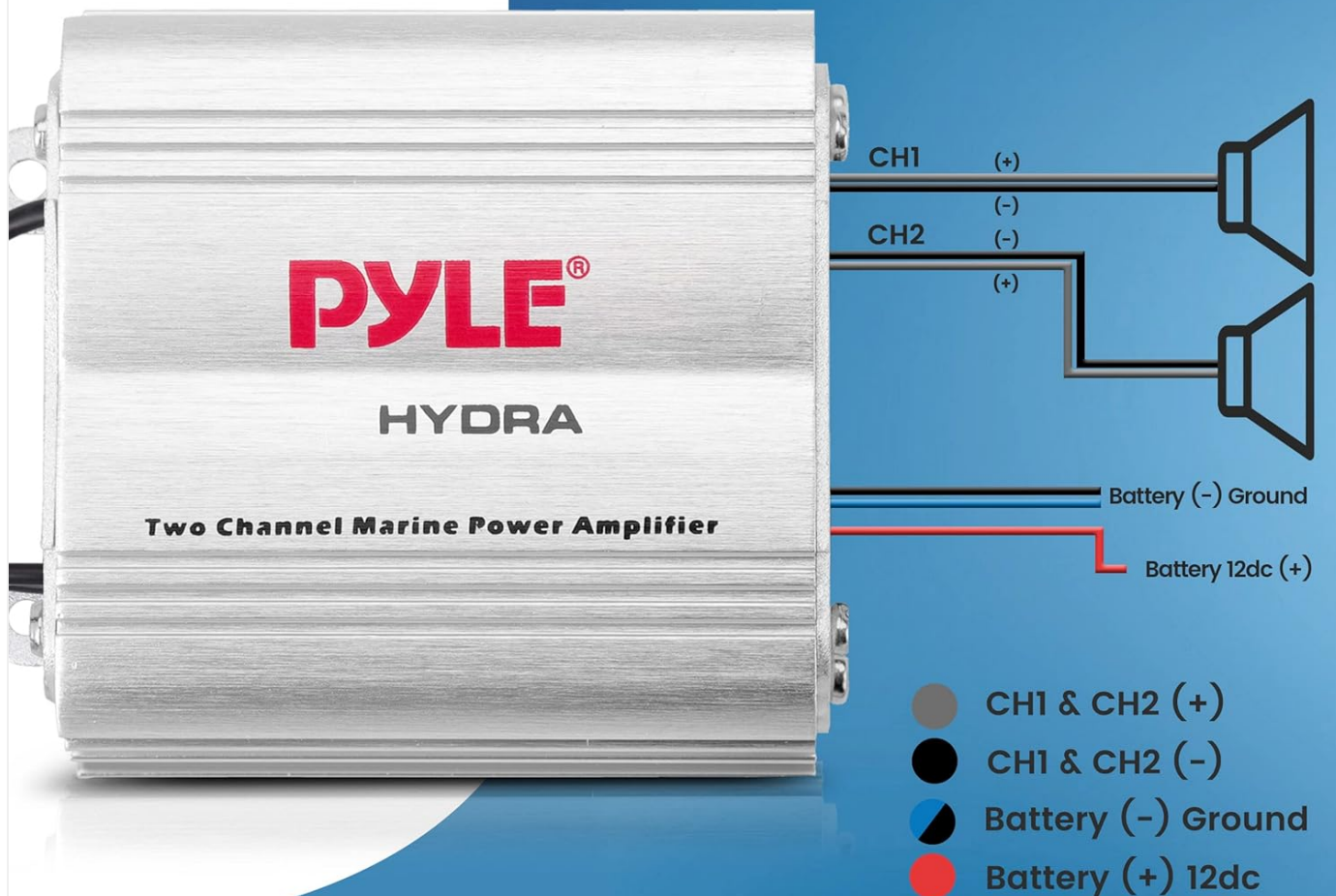


Image: A clear diagram illustrating how to connect the amplifier to the battery (12V DC) and to the speakers for both channels (CH1 and CH2).

- **Power Connection:** Connect the red wire to the positive (+) terminal of your 12V DC power source and the black wire to the negative (-) or ground terminal. The amplifier requires a 10A fuse for protection.
- **Speaker Connection:** Connect your speakers to the CH1 and CH2 output terminals, observing correct polarity (+ and -).

### 3. Input Connections

The amplifier supports various audio input sources:

- **RCA Line Input:** Use the RCA stereo input for connecting external audio devices such as an iPod or MP3 player. The included 3.5mm-to-RCA adapter allows for direct connection of devices with a 3.5mm headphone jack.
- **High/Low Level Inputs:** The amplifier can also accept standard high and low-level inputs from a marine head unit.



# Adjustable High Low Level Inputs

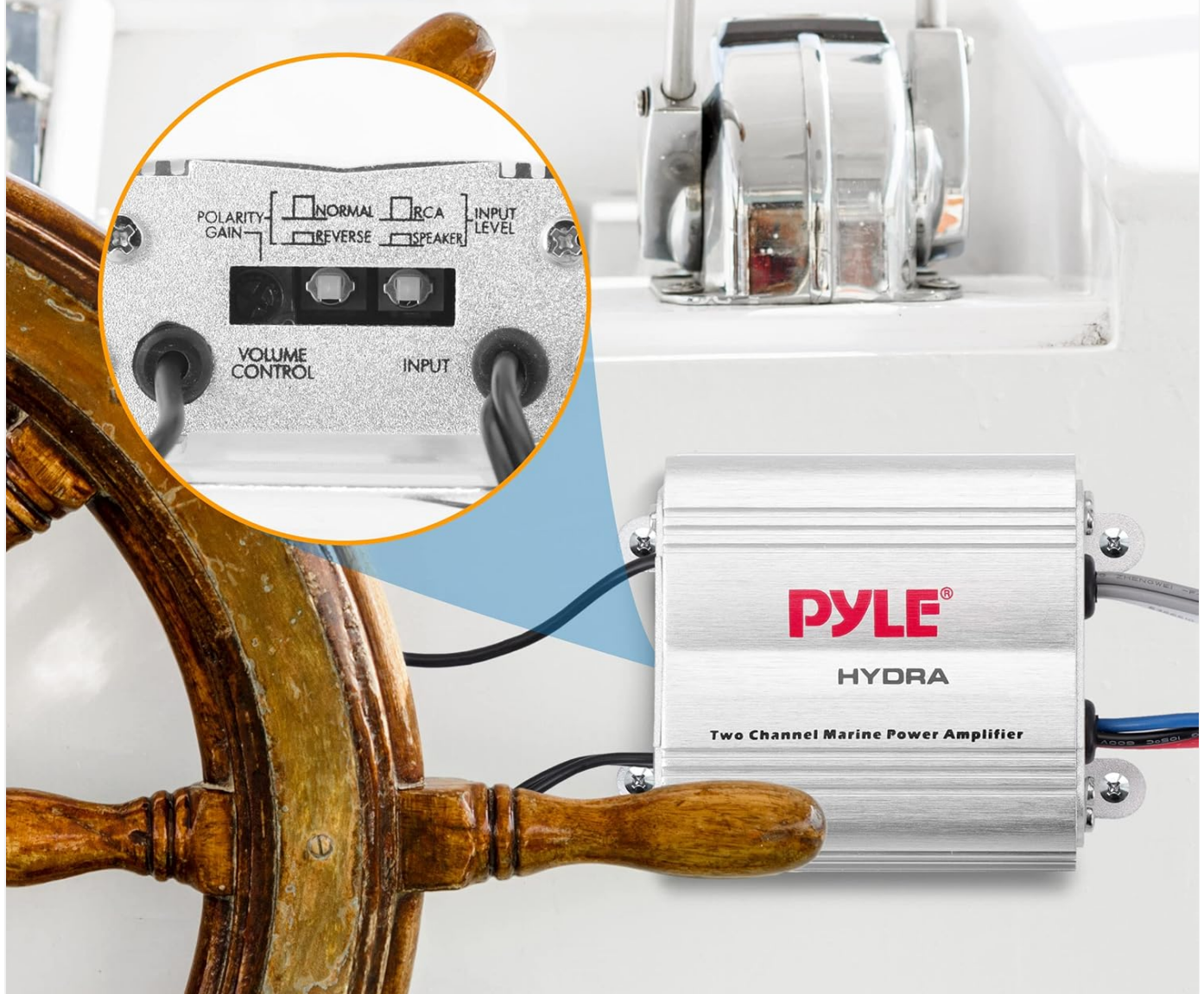


Image: A detailed view of the amplifier's input panel, showing the Input Level switch (LINE/SPEAKER), Polarity switch (NORMAL/REVERSE), Gain Control, Volume Control plug, and RCA Stereo Input.

## 4. Remote Control Installation

The wired remote control allows for convenient volume gain adjustment. Connect the remote to the designated port on the amplifier and mount it in an easily accessible location.

# Remote Control

for Volume Gain



Image: The amplifier and its wired remote control are displayed, illustrating how the remote provides easy access to volume adjustments.

## OPERATING INSTRUCTIONS

Once installed, you can fine-tune your audio experience using the amplifier's controls, located behind a watertight plug:

- **Input Level Switch:**

Set the input sensitivity of the amplifier.

- If connecting to a **LINE** level source (typically RCA connection), set the switch to the **LINE** position.
- When connecting to loudspeaker outputs, headphones, or high-level sources, set the switch to the **SPEAKER** position.

- **Polarity Switch (NORMAL/REVERSE):**

This switch optimizes bass performance, especially when multiple loudspeakers are producing bass in the system. Play music with strong bass and toggle the switch between NORMAL and REVERSE to determine which setting yields a more pleasing bass response.

- **Gain Control:**

Adjusts the overall output level of the amplifier. When using the amplifier without an external volume control, set the gain to achieve a balanced sound with other loudspeakers. It is recommended to keep gain settings as low as possible while still achieving full output power.

- **Volume Control (Remote):**

The wired remote control allows for convenient volume adjustment. Turning the remote control all the way down will power off the amplifier.

## MAINTENANCE AND SAFETY

The Pyle Hydra Marine Amplifier is designed for durability in marine environments. While it is waterproof, regular checks and proper handling will ensure its longevity.

- **Cleaning:** Use a soft, damp cloth to clean the amplifier's exterior. Avoid harsh chemicals or abrasive cleaners.
- **Connection Checks:** Periodically inspect all wiring connections for corrosion or looseness, especially in marine environments. Ensure the watertight plug covering the controls is securely in place.
- **Overheating Prevention:** Ensure adequate ventilation around the amplifier to prevent overheating, although it is designed to dissipate heat efficiently.
- **Power Protection:** The amplifier features built-in power protection circuitry and anti-thump turn-on/off to safeguard against electrical damage. Do not bypass these safety features.



# Marine Grade

## Waterproof Amplifier



Image: The amplifier is shown with water droplets on its surface, emphasizing its marine-grade waterproof construction for reliable performance in wet conditions.

## TROUBLESHOOTING

If you encounter issues with your Pyle Hydra Marine Amplifier, refer to the following common troubleshooting steps:

| Problem                             | Possible Cause  | Solution  |
|-------------------------------------|---|---|
| No Power / Amplifier Not Turning On | Loose power connections<br>Blown fuse<br>Incorrect wiring<br>Remote volume control turned completely down | Check all power and ground connections.<br>Inspect and replace the 10A fuse if blown.<br>Verify wiring against the diagram.<br>Turn the remote volume control up. |

| Problem         | Possible Cause   | Solution  |
|-----------------|--|---|
| No Sound Output | Incorrect input level setting<br>Loose speaker connections<br>Faulty audio source or cable<br>Gain control set too low | Adjust the Input Level switch (LINE/SPEAKER) to match your source.<br><br>Check speaker wiring for secure connections and correct polarity.<br><br>Test with a different audio source or cable.<br><br>Increase the Gain Control. |
| Distorted Sound | Gain control set too high<br>Incorrect polarity setting<br>Damaged speakers  | Decrease the Gain Control.<br><br>Adjust the Polarity switch (NORMAL/REVERSE).<br><br>Test speakers with another amplifier if possible.   |

## SPECIFICATIONS





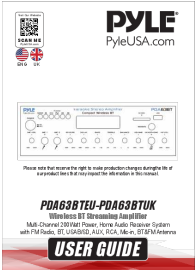

| Feature                           | Detail                |
|-----------------------------------|-----------------------|
| Power Output (RMS at 4 Ohms)      | 2 x 100 Watts         |
| Power Output (Max at 4 Ohms)      | 2 x 200 Watts         |
| Power Output (RMS at 2 Ohms)      | 2 x 300 Watts         |
| Total Harmonic Distortion (T.H.D) | <0.05%                |
| Signal-to-Noise Ratio (S/N Ratio) | >95dB                 |
| Channel Separation                | >65dB                 |
| Frequency Response                | 10Hz - 40kHz          |
| Fuse                              | 10A                   |
| Input Impedance                   | 2 Ohms Stereo Stable  |
| Dimensions (L x W x H)            | 4.13" x 3.35" x 1.38" |
| Voltage                           | 12 Volts (DC)         |
| Material                          | Aluminum              |
| Model Number                      | PLMRMP1A              |
| UPC                               | 068888897952          |

## WARRANTY AND SUPPORT

The Pyle Hydra Marine Amplifier (PLMRMP1A) comes with a **1-YEAR** manufacturer's warranty. For technical support, warranty claims, or additional product information, please visit the official Pyle website or contact their customer service department. Keep your purchase receipt as proof of purchase for warranty purposes.

For further assistance, you may also refer to the official Pyle website: [www.pyleusa.com](http://www.pyleusa.com)

## Related Documents - PLMRMP1A

|   |   |
|---|---|
|    | <p><a href="#">Pyle Hydra Marine Amplifier User Manual - PLMRMP1A, PLMRMB2CW, PLMRKT2A</a></p> <p>User manual for Pyle Hydra Marine Amplifier series (PLMRMP1A, PLMRMP1B, PLMRMB2CW, PLMRMB2CB, PLMRKT2A, PLMRKT2B). Details installation, wiring, controls, and Bluetooth setup for these waterproof 2-channel marine amplifiers.</p>  |
|    | <p><a href="#">Pyle Hydra 4-Channel Marine Amplifier User Manual</a></p> <p>User manual for the Pyle Hydra 4-Channel Marine Amplifier, covering installation precautions, power and speaker wiring, controls, and Bluetooth connectivity. Includes model numbers PLMRMP3A, PLMRMP3B, PLMRMB4CW, PLMRMB4CB, PLMRKT4A, PLMRKT4B.</p>  |
|    | <p><a href="#">Pyle PLMRA620 6-Channel Marine Amplifier User Manual</a></p> <p>This document provides detailed features, specifications, electrical connections, and troubleshooting guidance for the Pyle PLMRA620 6-Channel Marine Amplifier.</p>   |
|  | <p><a href="#">Pyle Marine Bluetooth Amplifier User Manual - PLMRMBT5B/PLMRMBT7B Series</a></p> <p>Comprehensive user manual for Pyle's PLMRMBT5B, PLMRMBT5S, PLMRMBT7B, and PLMRMBT7S marine grade Bluetooth amplifiers. Details features, technical specifications, installation, wiring diagrams, and Bluetooth operation for watercraft audio systems.</p>                    |
|  | <p><a href="#">Pyle PDA63BTEU-PDA63BTUK 200W Wireless Bluetooth Amplifier User Guide</a></p> <p>Get the most out of your Pyle PDA63BTEU-PDA63BTUK 200W wireless Bluetooth streaming amplifier. This user guide covers setup, features, controls, technical specifications, and safety information for this multi-channel home audio receiver.</p>                                 |
|  | <p><a href="#">Pyle Elite Series Waterproof Bluetooth Amplifiers - Product Manual</a></p> <p>Comprehensive guide to Pyle Elite Series waterproof Bluetooth amplifiers, covering installation, wiring, features, specifications, and troubleshooting for models PLMRA210BT, PLMRA410BT, PLMRA430BT, PLMRA630BT, and PLMRA830BT. Designed for marine and vehicle audio systems.</p> |