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Model: PLMRMP1B

Brand: Pyle

INTRODUCTION

The Pyle PLMRMP1B is a compact and powerful 2-channel marine amplifier receiver designed to enhance the audio system in your boat, ATV, RV, or other watercraft. This amplifier delivers up to 400 watts of power, providing clear and robust sound even in challenging marine environments. Its waterproof and weatherproof construction ensures durability and reliable performance. This manual provides detailed instructions for installation, operation, and maintenance of your Pyle PLMRMP1B amplifier.

SAFETY INFORMATION

- Always disconnect the vehicle's battery before installing or servicing any electrical components.
- Ensure all wiring is properly insulated and secured to prevent short circuits and damage.
- Do not expose the amplifier to extreme temperatures or direct sunlight for prolonged periods.
- Use appropriate gauge wiring for power and speaker connections as specified in the installation section.
- If you are unsure about any installation steps, consult a qualified professional.
- This product is designed for marine and outdoor use, but avoid submerging it.

WHAT'S IN THE BOX

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Figure 1: Included components with the Pyle PLMRMP1B Marine Amplifier.

- Pyle Hydra Marine Amplifier (PLMRMP1B)
- Remote Control for Volume Gain
- 3.5mm-to-RCA Adaptor Cable
- 3.5mm Audio Input Cable
- Waterproof Poly Bag (for audio source)
- Mounting Hardware

PRODUCT FEATURES

- **Waterproof & Weatherproof Design:** Marine-grade protection with rugged construction and integrated power wiring harness.
- **Powerful 400 Watt Output:** Delivers 2 x 100 Watts RMS at 4 Ohms, 2 x 200 Watts Max at 4 Ohms, and 2 x 300 Watts RMS at 2 Ohms.

- **2-Channel Amplifier:** Powers any boat stereo speaker and is universally compatible.
- **Versatile Audio Inputs:** Features wired RCA, AUX, and MP3 audio input capabilities.
- **Safety Protections:** Built with a heavy-duty heatsink, thermal overload, and speaker short protection. Includes a 10A fuse.
- **Compact and Lightweight:** Dimensions of 4.13" L x 3.35" W x 1.38" H, making it easy to install in various locations.
- **Adjustable Controls:** Includes adjustable high/low level inputs, electronic crossover network, and remote volume gain control.
- **Anti-Thump Turn-On:** Soft turn on/off circuitry to prevent speaker damage.

SETUP AND INSTALLATION

Mounting the Amplifier



Figure 2: Amplifier dimensions for mounting reference.

The Pyle PLMRMP1B is designed for easy installation with built-in mounting brackets. Choose a secure, dry location that allows for adequate ventilation and access to controls. Use the included hardware to attach the amplifier to a compartment or panel.



Figure 3: Amplifier control panel and input connections.

- 1. Power Connection:** Connect the red power wire to a fused 12V positive terminal of your vehicle's battery. Connect the black ground wire to a clean, unpainted metal surface on the vehicle's chassis or directly to the battery's negative terminal.
- 2. Remote Turn-On:** Connect the blue remote turn-on wire to the remote output of your head unit or a switched 12V source. This will turn the amplifier on and off with your audio system.
- 3. Speaker Connections:** Connect your speakers to the amplifier's speaker output wires. Ensure correct polarity (+ to + and - to -) for optimal sound. The amplifier supports 2-ohm stereo stable operation.
- 4. Audio Input:**
 - **RCA Line Input:** Use the included 3.5mm-to-RCA adaptor to connect your audio source (e.g., iPod, MP3 player) to the RCA input jacks on the amplifier.
 - **High-Level Input:** If your head unit does not have RCA outputs, you can connect directly to the speaker outputs of your head unit. Set the "Input Level" switch to "SPEAKER".
- 5. Remote Volume Control:** Plug the wired remote volume control into the designated port on the amplifier. This allows for

convenient volume adjustment from your dashboard.

OPERATING INSTRUCTIONS

Adjusting Audio Settings



Figure 4: Remote control for volume gain.

The switches and gain settings are located behind a watertight plug on the amplifier. Adjust these settings to fine-tune your audio output:

- **Input Level Switch:** Set this switch based on your audio source.
 - **LINE (out) Position:** For connecting to a LINE level source (typically RCA type connection).
 - **SPEAKER Position:** For connecting to loudspeaker outputs, headphones, or high-level sources.
- **Polarity Switch (NORMAL/REVERSE):** This switch optimizes bass performance, especially when multiple loudspeakers produce bass. Play music with strong bass and toggle the switch to determine which setting provides a more pleasing bass response.

- **Gain Control:** Adjusts the overall output level of the amplifier. When using the amplifier without the remote volume control, set the gain to balance with other loudspeakers in your system. Keep the gain setting as low as possible while still achieving desired output power to minimize noise.
- **Volume Control (Remote):** The wired remote control allows you to adjust the volume conveniently. Turning the volume all the way down on the remote will power off the amplifier.

MAINTENANCE

- Keep the amplifier clean by wiping it with a soft, dry cloth. Avoid using harsh chemicals or abrasive cleaners.
- Regularly check all wiring connections to ensure they are secure and free from corrosion, especially in marine environments.
- Ensure the amplifier has adequate ventilation to prevent overheating. Do not block cooling fins or vents.
- If the fuse blows, replace it with a fuse of the same type and rating (10A).

TROUBLESHOOTING

Problem	Possible Cause	Solution
No Power/No Sound	Blown fuse; Loose power/ground connection; Remote turn-on wire not connected or no signal; Amplifier in protection mode.	Check and replace fuse (10A); Verify all power and ground connections are secure; Ensure remote wire receives 12V when head unit is on; Check for short circuits in speaker wiring.
Distorted Sound	Gain set too high; Input level mismatch; Speaker impedance too low; Damaged speakers.	Reduce gain setting; Ensure Input Level switch matches source (LINE/SPEAKER); Verify speaker impedance is 2 Ohms or higher; Inspect speakers for damage.
No Bass or Weak Bass	Incorrect polarity setting; Speakers wired out of phase.	Adjust Polarity switch (NORMAL/REVERSE); Verify speaker wiring polarity.
Static or Noise	Poor ground connection; RCA cables too close to power wires; Engine noise.	Ensure ground connection is clean and secure; Reroute RCA cables away from power wires; Install a ground loop isolator if necessary.

SPECIFICATIONS

Feature	Specification
Model	PLMRMP1B
Channels	2-Channel
Max Power Output	400 Watts
RMS Power (4 Ohms)	2 x 100 Watts
Max Power (4 Ohms)	2 x 200 Watts
RMS Power (2 Ohms)	2 x 300 Watts
Fuse	10A
T.H.D.	<0.05%
S/N Ratio	>95dB
Channel Separation	>65dB
Frequency Response	10Hz - 40kHz
Dimensions (L x W x H)	4.13" x 3.35" x 1.38"
Weight	4.6 ounces (approx. 0.13 kg)
Material	Metal
Mounting Type	Boat Mount

WARRANTY AND SUPPORT

The Pyle PLMRMP1B Marine Amplifier comes with a **One Year Limited Warranty** from the manufacturer. This warranty covers defects in materials and workmanship under normal use.

For warranty service or technical support, please contact Pyle customer service. Refer to the official Pyle website or your product packaging for the most current contact information.

Pyle Official Website: www.pyleusa.com

