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Pyle PFMRA440BB

Pyle 4-Channel Marine Amplifier PFMRA440BB User Manual

Model: PFMRA440BB

Brand: Pyle

PRODUCT OVERVIEW

The Pyle PFMRA440BB is a 4-channel marine amplifier designed for robust audio performance in various environments. It features a compact, waterproof design, Bluetooth connectivity for wireless music streaming, and integrated USB/SD card readers. This amplifier delivers 400 watts of power, making it suitable for powering multiple speakers.



Figure 1: Top-down view of the Pyle PFMRA440BB 4-Channel Marine Amplifier, showcasing its compact design and heat sink fins.

PACKAGE CONTENTS

Verify that all items are present in the package:

- Pyle PFMRA440BB Bluetooth Marine Amplifier
- Power Cable

SETUP AND INSTALLATION

This section provides instructions for the proper setup and installation of your Pyle PFMRA440BB marine amplifier. Ensure the unit is powered off before making any connections.

Connection Diagram



Figure 2: Rear panel connections of the PFMRA440BB, including power, speaker terminals, and RCA inputs.

1. **Power Connection:** Connect the provided power cable to the DC 12.5V input on the amplifier. Ensure the power source is appropriate for marine use and provides stable 12.5V DC.
2. **Speaker Connections:** Connect your speakers to the spring-loaded speaker terminals. The amplifier supports 4 channels. Ensure correct polarity (+ to + and - to -) for each speaker. The terminals are labeled for 1CH/L, 2CH/R, 3CH/L, and 4CH/R.
3. **Audio Input:** Use RCA (L/R) audio connectors to connect external audio devices such as a head unit or media player. The amplifier has inputs for 2CH and 4CH.
4. **Mounting:** Securely mount the amplifier in a location that is protected from direct water exposure, but allows for adequate ventilation. The unit is water-resistant, but not submersible.

OPERATING INSTRUCTIONS

This section details the operation of your Pyle PFMRA440BB amplifier.



Figure 3: Front panel controls and LCD display of the PFMRA440BB.

Power On/Off

Locate the power ON/OFF switch on the side panel of the amplifier. Toggle the switch to turn the unit on or off. The LCD digital display will illuminate when the unit is powered on.

Volume, Bass, and Treble Control

Use the rotary controls on the front panel to adjust:

- **Volume:** Adjusts the overall output level of the audio.
- **Bass:** Controls the low-frequency audio output.
- **Treble:** Controls the high-frequency audio output.

Bluetooth Wireless Connectivity

1. Ensure the amplifier is powered on.
2. Activate Bluetooth on your external device (smartphone, tablet, laptop).
3. Search for Bluetooth devices and select "Pyle" from the list.
4. Once paired, you can stream audio wirelessly to the amplifier. The wireless range is approximately 50+ feet.

USB Flash & SD Memory Card Readers

The amplifier supports MP3, WMA, and WAV digital audio files from USB flash drives (up to 32 GB) and SD memory cards.

1. Insert a USB flash drive or SD card into the corresponding slot on the front panel.
2. The amplifier will automatically detect the media and begin playback.
3. Use the "MODE", "PREV", "PLAY/PAUSE", and "NEXT" buttons to control playback.

MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your Pyle marine amplifier.

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the amplifier. Do not use harsh chemicals or abrasive cleaners.
- **Water Resistance:** While the unit is water-resistant, avoid direct exposure to heavy rain or submersion. Ensure all connections are secure to maintain water resistance.
- **Ventilation:** Ensure the amplifier has adequate airflow around its heatsink to prevent overheating. Do not block ventilation openings.
- **Storage:** If storing the amplifier for an extended period, disconnect it from power and store it in a cool, dry place.

TROUBLESHOOTING

If you encounter issues with your Pyle PFMRA440BB amplifier, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No Power	Power cable disconnected; Power switch off; Blown fuse (external, if applicable).	Check power cable connection; Ensure power switch is ON; Inspect and replace fuse if necessary.
No Sound Output	Incorrect speaker wiring; Input source not connected; Volume too low; Amplifier in protection mode.	Verify speaker polarity and connections; Check RCA input cables; Increase volume; Power cycle the amplifier to reset protection.
Bluetooth Disconnection	Device out of range; Interference; Pairing issue.	Move device closer to amplifier; Reduce interference sources; Forget "Pyle" device on your phone and re-pair.
Distorted Sound	Volume too high; Incorrect gain settings; Speaker impedance mismatch.	Reduce volume; Adjust bass/treble settings; Ensure speakers match 4 Ohm impedance.
USB/SD Not Playing	Unsupported file format; Corrupted files; USB/SD card not properly inserted or formatted.	Ensure files are MP3, WMA, or WAV; Reformat USB/SD card (FAT32); Reinsert card/drive.
Amplifier Overheating	Insufficient ventilation; Overload.	Ensure proper airflow around the unit; Check speaker impedance and connections for shorts.

SPECIFICATIONS

Technical specifications for the Pyle PFMRA440BB Marine Amplifier:

- **MAX Power:** 400 Watt (100W x 4)
- **Amplifier Type:** Class-D Circuit
- **Marine Grade Rating:** IP-41
- **Impedance:** 4 Ohm
- **Frequency Response:** 10 - 40kHz
- **Channel Separation:** > 65dB
- **T.H.D.:** <1.0%
- **S/N Ratio:** > 95dB
- **Maximum USB Flash Support:** 32 GB
- **Digital Audio File Support:** MP3, WMA, WAV

- **Bluetooth Version:** 2.1
- **Wireless Range:** 50+ ft.
- **Power:** 110/220V (DC 12.5V Power Adapter)
- **Dimensions (L x W x H):** 11.0" x 8.6" x 2.1"
- **Item Weight:** 1.99 pounds



Figure 4: Dimensional drawing of the PFMRA440BB amplifier.

WARRANTY AND SUPPORT

This product typically comes with a manufacturer's warranty. Please refer to the warranty card included with your purchase or contact Pyle customer support for detailed warranty information and service.

For technical assistance or further inquiries, please visit the official Pyle website or contact their customer service department.

IMPORTANT SAFETY INFORMATION

Proposition 65 Warning: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Always ensure proper installation and use to prevent electrical hazards. Do not attempt to open or service the unit yourself. Refer all servicing to qualified personnel.