

- › [BOSS Audio Systems](#) /
- › [BOSS Audio Systems MR1000 4-Channel Weather Resistant Marine Amplifier User Manual](#)

BOSS Audio Systems MR1000

BOSS Audio Systems MR1000 4-Channel Weather Resistant Marine Amplifier User Manual

Model: MR1000

1. INTRODUCTION AND OVERVIEW

The BOSS Audio Systems MR1000 is a Class A/B 4-Channel Full Range Weatherproof Marine Amplifier designed for marine environments. This amplifier delivers 1000 Watts Max Power and features a MOSFET power supply. It offers customization options including Fixed High Pass Crossover, Variable Low Pass Crossover, and Bass Boost. A remote subwoofer control is included for convenient bass adjustment. The amplifier supports bridging channels for increased power and flexibility, and is stable between 2 to 8 Ohms when running individual channels. For enhanced weather resistance, the MR1000 Amplifier incorporates a unique rubber door that tightly seals all control panel openings and weatherproof connectors to protect against the elements.



Image 1: The BOSS Audio Systems MR1000 4-Channel Weather Resistant Marine Amplifier.

2. WHAT'S IN THE BOX

Upon unboxing your MR1000 amplifier, you should find the following components:

- High input cable with connector
- Speaker output cable with connector
- Remote level control
- Mounting screws
- User manual



Image 2: All components included in the BOSS Audio Systems MR1000 package.

3. PRODUCT FEATURES

- **Power Output:** 250 Watts Max x 4 @2-Ohms, 125 Watts Max x 4 @4-Ohms, 500 Watts x 2 @4-Ohms Max Bridged.
- **Weather Resistant Design:** The MR1000 is engineered to withstand light weather conditions, making it suitable for ATVs and boats. It features a unique rubber door that seals control panel openings and weatherproof connectors.
- **Class A/B Topology:** This amplifier utilizes Class A/B design, offering a balance of efficiency and sound quality.
- **Full Range Capability:** Supports both speakers and subwoofers across the full audio spectrum.
- **Variable Gain Control:** Adjusts the signal level from your receiver to the amplifier, optimizing input matching.
- **Variable Bass Boost:** Provides control over the amount of bass output to your subwoofer(s).
- **Bridgeable Channels:** Allows for increased power output to speakers or subwoofers by combining amplifier channels.

Features a unique rubber door which tightly seals all control panel openings when not in use.



Image 3: The MR1000 amplifier showcasing its weather-resistant rubber door and physical dimensions.

4. SETUP AND CONNECTIONS

Proper setup is crucial for optimal performance and longevity of your MR1000 amplifier. Refer to the included user manual for detailed wiring diagrams.

4.1 Power Connections

- Connect the **red cable** to the positive (+) terminal of your vehicle's battery. Ensure an appropriate fuse is installed close to the battery.
- Connect the **black cable** to a solid ground point on the vehicle chassis.
- The **blue remote cable** connects to the remote turn-on output of your head unit or a switched 12V source.
- Use appropriate gauge wiring for power and ground connections based on cable length to prevent power loss. For longer runs (e.g., 20 feet), a 4-gauge wire is recommended. For shorter runs (e.g., 4 feet or less), an 8-gauge wire may suffice.

4.2 Speaker Outputs

The MR1000 uses plug-in connectors for speaker outputs. Each pair of wires (e.g., green/green-black, purple/purple-black) corresponds to a channel. The solid color wire is positive (+), and the wire with a black

stripe is negative (-).

- Connect your speakers to the corresponding output channels.
- For bridged mode (e.g., for subwoofers), refer to the user manual's wiring diagrams. Typically, this involves using the positive from one channel and the negative from an adjacent channel.

4.3 Audio Inputs

The amplifier supports both RCA (low-level) and high-level inputs.

- **RCA Inputs:** Connect RCA cables from your head unit's pre-amp outputs to the amplifier's RCA inputs (Left/Right Front, Left/Right Rear).
- **High-Level Inputs:** If your head unit lacks RCA outputs, use the provided high-level input adapters. These connect directly to your head unit's speaker wires.

4.4 Remote Subwoofer Control

The remote subwoofer control connects via a 5-pin cable (20 feet long, included) to the dedicated port on the amplifier. This allows for convenient adjustment of subwoofer gain from your listening position.



Image 4: Overview of the input and output connections on the MR1000 amplifier.

Your browser does not support the video tag.

Video 1: Detailed explanation of the MR1000 amplifier's features, benefits, and connection methods, including subwoofer and speaker wiring.

5. OPERATING INSTRUCTIONS AND ADJUSTMENTS

The MR1000 amplifier offers several controls for fine-tuning your audio experience. These controls are located under a protective rubber cap on the side of the unit.

- **Input Mode Switch:** Allows you to select between 4-channel or 2-channel input modes. In 2-channel mode, the amplifier will replicate the input signal across all four output channels.
- **Input Sensitivity:** Adjusts the amplifier's sensitivity to match the output voltage of your head unit. Options typically include high and low sensitivity. Use low sensitivity for higher voltage head unit outputs to prevent distortion.
- **Input Level Settings:** Fine-tune the input gain for each channel using a small flathead screwdriver. Adjust this carefully to avoid clipping and distortion.
- **Bass Boost:** Increases the low-frequency output. Use this feature judiciously, as excessive bass boost can lead to distortion and potential speaker damage, especially if input levels are already high.
- **Crossover Settings (Low Pass Filter / High Pass Filter / Full Range):**
 - **Low Pass Filter (LP):** Allows only frequencies below a set point (e.g., 50-250 Hz) to pass through, ideal for subwoofers.
 - **High Pass Filter (HP):** Allows only frequencies above a set point to pass through, ideal for full-range speakers or tweeters to prevent bass distortion.
 - **Full Range:** Allows all frequencies to pass through, suitable for full-range speakers.

6. MAINTENANCE

To ensure the longevity and optimal performance of your BOSS Audio Systems MR1000 Marine Amplifier, regular maintenance is recommended:

- **Cleaning:** Periodically wipe down the amplifier's exterior with a soft, damp cloth. Avoid using harsh chemicals or abrasive cleaners. Ensure the rubber protective cover for the controls is properly sealed when not making adjustments.
- **Connection Checks:** Regularly inspect all power, ground, remote, and speaker connections for corrosion or looseness. Tighten any loose connections and clean any corroded terminals.
- **Ventilation:** Ensure the amplifier has adequate airflow around its heatsink fins to prevent overheating. Do not block any ventilation areas.
- **Fuse Inspection:** Check the inline fuse periodically for any signs of damage or corrosion. Replace with a fuse of the correct rating if necessary.

7. TROUBLESHOOTING

If you encounter issues with your MR1000 amplifier, refer to the following common troubleshooting steps:

- **No Power:**
 - Check the main fuse on the power cable.
 - Verify all power and ground connections are secure and free of corrosion.
 - Ensure the remote turn-on wire is receiving 12V when the head unit is on.

- **No Sound:**

- Confirm all RCA or high-level input cables are securely connected.
- Check speaker wire connections for proper polarity and secure contact.
- Verify head unit output is active and volume is up.
- Adjust input gain and crossover settings.

- **Distorted Sound:**

- Reduce the input gain level on the amplifier.
- Check for proper impedance matching between the amplifier and speakers/subwoofers.
- Ensure bass boost is not set too high.
- Verify speaker wires are not shorting or touching.

- **Amplifier Overheating:**

- Ensure adequate ventilation around the amplifier.
- Check speaker impedance; running too low an impedance can cause overheating.
- Reduce volume or gain settings.

8. SPECIFICATIONS

Feature	Specification
Item Dimensions (L x W x H)	12.72 x 7.32 x 2.25 inches
Voltage	14.4 Volts (DC)
Maximum Supply Voltage	14.4 Volts
Mounting Type	Surface Mount
Number of Channels	4
Output Power	1000 Watts
Specification Met	FCC
Item Weight	7.3 pounds
Item Model Number	MR1000
Batteries Required	1 12V battery
Color	Silver, White

9. WARRANTY AND SUPPORT

BOSS Audio Systems provides a **6-year Platinum Online Dealer Warranty** for this product, provided the purchase is made through Amazon.com. Professional installation is strongly encouraged to ensure proper and safe functionality, which may also be a condition of the warranty.

Legal Disclaimer

Shipping is typically 3-5 days via FedEx or UPS with tracking number. This product is brand new. Shipping is restricted to Continental USA street addresses ONLY; we do not ship to P/O boxes, APO, AE, or international

addresses.