

JBL MA1000

JBL MA1000 Marine Mono Subwoofer Amplifier User Manual

Model: MA1000

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1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your JBL MA1000 Marine Mono Subwoofer Amplifier. The MA1000 is designed to deliver high-performance audio in marine environments, featuring a Class D amplifier design for efficient power delivery and minimal current draw. It is capable of providing 600 watts RMS x 1 at 4 ohms, with a maximum power output of 2000 watts, and a frequency response range of 25-320 Hz.

Please read this manual thoroughly before attempting installation or operation to ensure proper use and to prevent damage to the unit or your vessel's audio system.

2. WHAT'S IN THE BOX

Verify that all items are present in the packaging before proceeding with installation:

- One JBL MA1000 Mono Subwoofer Marine Amplifier
- Six 35A ATO Fuses (3 installed, 3 spare)
- Two Bare Wire-to-RCA Adapters
- One Remote Bass Control Module
- One 16.5' Remote Control Cable (RJ-25 plugs on both ends)
- Two Self-Tapping Screws for Remote (M3 x 15mm)
- Four Mounting Screws (M4 x 53mm)
- Owner's Manual (this document)
- Two JBL Stickers
- One JBL Logo Badge

3. INSTALLATION

Proper installation is crucial for optimal performance and longevity of your amplifier. It is recommended that installation be performed by a qualified marine audio technician.

3.1 Mounting Location

The JBL MA1000 features a compact size and low-profile chassis, allowing for flexible mounting in various marine vehicles where space is limited. Choose a location that is:

- Secure and protected from direct water exposure.
- Well-ventilated to prevent overheating.
- Accessible for wiring and adjustments.
- Away from fuel lines, brake lines, and electrical wiring that could cause interference.

Use the provided mounting screws (M4 x 53mm) to secure the amplifier firmly to a solid surface.



Figure 1: Top view of the JBL MA1000 Marine Mono Subwoofer Amplifier. This image shows the sleek, compact design of the amplifier, suitable for marine environments.

3.2 Wiring Connections

Ensure the vessel's battery is disconnected before making any electrical connections.

1. **Power Connection:** Connect the +12V terminal to the positive terminal of the vessel's battery using appropriate gauge wiring. Connect the GND terminal to a clean, solid chassis ground point. Connect the REM (Remote) terminal to the remote turn-on output of your marine head unit.
2. **Speaker-Level Inputs:** The amplifier supports both high-level (speaker-level) and low-level (RCA) inputs. For high-level inputs, use the provided bare wire-to-RCA adapters to connect directly to your marine stereo's speaker outputs. This allows integration with factory marine stereo systems.
3. **Low-Level Inputs (RCA):** For aftermarket marine stereos with RCA pre-outs, connect RCA cables from the head unit's subwoofer output to the amplifier's PRIMARY INPUT (RCA) jacks.
4. **Subwoofer Output:** Connect your subwoofer(s) to the SUB output terminals, observing correct polarity (+ to + and - to -). The MA1000 is a mono amplifier, designed for a single subwoofer or multiple subwoofers wired to present a suitable

impedance.

5. **Remote Bass Control:** Connect the remote bass control module to the REMOTE CONTROL port using the provided RJ-25 cable. Mount the remote module in an accessible location using the self-tapping screws.



Figure 2: Rear view of the JBL MA1000 amplifier, illustrating the power, ground, remote, input (RCA), and subwoofer output terminals, along with the fuse holders and remote control port.

4. OPERATION

Once installed, the JBL MA1000 amplifier offers several controls for fine-tuning your audio system.



Figure 3: Top view of the JBL MA1000 amplifier with the protective cover removed, revealing the control panel for input level, crossover, bass boost, and phase settings.

4.1 Input Level Control

This control adjusts the input sensitivity of the amplifier to match the output level of your marine stereo. Proper setting prevents distortion and ensures maximum dynamic range.

- **Low-Level Inputs (RCA):** Adjust the input sensitivity between 200mVrms and 4Vrms.
- **High-Level Inputs (Speaker-Level):** Adjust the input sensitivity between 1Vrms and 22Vrms.

To set the input level, turn the control to its minimum position. Play a dynamic piece of music through your marine stereo at about 75% of its maximum volume. Slowly increase the amplifier's input level control until you hear distortion, then back it off slightly until the sound is clear.

4.2 Variable Crossover and Bass Boost

The MA1000 features variable electronic crossovers and bass boost circuits for precise system tuning.

- **Low-Pass Filter (LPF):** Adjust the LPF to control the upper frequency limit of the subwoofer. This ensures that only low frequencies are sent to the subwoofer, preventing it from playing higher frequencies that should be handled by full-range speakers. A common starting point is 80-100 Hz.
- **Bass Boost:** Use the bass boost control to enhance low-frequency output. Start with the boost at its minimum setting and increase gradually if more bass is desired. Excessive bass boost can lead to distortion and potential speaker damage.

4.3 Phase Switch

The phase switch (0° or 180°) helps to ensure that the subwoofer's output blends seamlessly with your full-range speakers. Experiment with both settings to determine which provides the most cohesive and impactful bass response in your listening environment.

4.4 Remote Bass Control

The remote bass control module allows for convenient adjustment of the subwoofer's output level from your listening position, without needing to access the amplifier directly.

5. MAINTENANCE

The JBL MA1000 is designed for marine environments, but regular maintenance helps ensure its longevity and performance.

- **Cleaning:** Periodically wipe the amplifier's exterior with a soft, damp cloth. Avoid using harsh chemicals or abrasive cleaners. Ensure the unit is powered off and disconnected before cleaning.
- **Connections:** Regularly check all wiring connections for corrosion, looseness, or damage. Tighten any loose connections and clean any corrosion to maintain optimal electrical contact.
- **Ventilation:** Ensure that the amplifier's ventilation fins are clear of obstructions to allow for proper heat dissipation.
- **Fuses:** The amplifier uses 35A ATO fuses. If a fuse blows, replace it only with a fuse of the same type and rating. Using an incorrect fuse can damage the amplifier or create a fire hazard.

6. TROUBLESHOOTING

The JBL MA1000 features full on-board protection circuitry to safeguard against common issues. An LED indicator is provided to signal when a protection condition exists.

Problem	Possible Cause	Solution
No Power / Amplifier does not turn on	<ul style="list-style-type: none">◦ Blown fuse◦ Loose power or ground connection◦ No remote turn-on signal◦ Under-voltage protection activated	<ul style="list-style-type: none">◦ Check and replace fuses (35A ATO).◦ Verify all power, ground, and remote connections are secure.◦ Ensure head unit is providing a remote turn-on signal.◦ Check battery voltage.
No Sound Output	<ul style="list-style-type: none">◦ Input level too low◦ Incorrect input connection◦ Speaker wires disconnected or shorted◦ Over-temperature protection activated	<ul style="list-style-type: none">◦ Adjust input level control.◦ Verify RCA or speaker-level inputs are correctly connected.◦ Check speaker wiring for shorts or disconnections.◦ Allow amplifier to cool down; ensure proper ventilation.

Problem	Possible Cause	Solution
Distorted Sound	<ul style="list-style-type: none">◦ Input level set too high◦ Incorrect crossover settings◦ Speaker impedance mismatch◦ Poor ground connection	<ul style="list-style-type: none">◦ Reduce input level control.◦ Adjust LPF and bass boost settings.◦ Verify subwoofer impedance is compatible with the amplifier.◦ Ensure ground connection is clean and secure.
Amplifier Overheats	<ul style="list-style-type: none">◦ Insufficient ventilation◦ Speaker impedance too low◦ Excessive volume for extended periods	<ul style="list-style-type: none">◦ Relocate amplifier or improve airflow.◦ Check speaker impedance.◦ Reduce volume.

If problems persist after following these steps, consult a qualified technician or contact JBL customer support.

7. SPECIFICATIONS

Feature	Detail
Model	MA1000
Amplifier Type	Mono Subwoofer Amplifier, Class D
RMS Power Output (4 ohms)	600 watts x 1
Max Power Output	2000 watts
Frequency Response	25 Hz – 320 Hz
Input Sensitivity (Low-Level)	200mVrms – 4Vrms
Input Sensitivity (High-Level)	1Vrms – 22Vrms
Product Dimensions (L x W x H)	12.6 x 7.09 x 2.02 inches (320 x 180 x 51.3 mm)
Item Weight	9.13 pounds (4.14 kg)
Fuses	3 x 35A ATO

8. WARRANTY AND SUPPORT

For specific warranty information regarding your JBL MA1000 Marine Mono Subwoofer Amplifier, please refer to the warranty card included with your product or visit the official JBL website. Warranty terms and conditions may vary by region and retailer. For technical support, service, or additional product information, please contact JBL customer service or visit the [JBL Official Store](#).

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.

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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.

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