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› [Memphis](#) /

› Memphis Audio MXA300.1 Marine Amplifier & XL-1240DMF Subwoofer User Manual

Memphis MemphisBDL210707-02

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Model: MemphisBDL210707-02

1. INTRODUCTION

Thank you for choosing the Memphis Audio MXA300.1 Marine Amplifier and XL-1240DMF 12" Dual 4-Ohm Marine Subwoofer bundle. This manual provides essential information for the proper installation, operation, and maintenance of your new marine audio system. Please read this manual thoroughly before installation and use to ensure optimal performance and longevity of your products.



Figure 1: The Memphis Audio MXA300.1 Marine Amplifier and XL-1240DMF 12" Dual 4-Ohm Marine Subwoofer bundle, including a pry kit and a cozy.

2. SAFETY INFORMATION

Always observe the following safety precautions when installing and operating your Memphis Audio products:

- Disconnect the vehicle's battery negative terminal before beginning any electrical work.
- Ensure all wiring is properly insulated and secured to prevent short circuits and damage.
- Do not install components in locations that obstruct vehicle operation or safety devices.
- Protect wiring from sharp edges and moving parts.
- Use appropriate gauge wiring as recommended in the specifications to prevent overheating.
- This product is designed for marine and powersports applications and is IP66 water resistant. However, avoid direct submersion or high-pressure water jets.
- Seek professional assistance if you are unsure about any installation steps.

3. SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of your amplifier and subwoofer.

3.1 Amplifier Installation (MXA300.1)

The MXA300.1 amplifier is designed with a compact footprint and sealed connectors for powersports applications.

1. **Mounting Location:** Choose a secure, dry location that allows for adequate air circulation. Although water-resistant, avoid areas prone to standing water or direct, continuous spray.
2. **Power Wiring:** Connect the amplifier's power input to the vehicle's battery using an 8-gauge amplifier kit (recommended). Ensure an inline fuse is installed within 18 inches of the battery. Connect the ground wire to a clean, unpainted metal surface on the vehicle chassis.
3. **Remote Turn-On:** Connect the remote turn-on wire from your head unit to the amplifier's remote input.
4. **Input Connections:** Use the high/low level inputs to connect your audio source (head unit).
5. **Speaker Output:** Connect the amplifier's speaker output to the XL-1240DMF subwoofer.



Figure 2: Angled view of the Memphis Audio MXA300.1 Powersports Mono Amplifier, showing its compact design and sealed connectors.



Figure 3: Top view of the Memphis Audio MXA300.1 Powersports Mono Amplifier, highlighting its robust casing.

3.2 Subwoofer Installation (XL-1240DMF)

The XL-1240DMF is a 12" dual 4-ohm marine subwoofer designed for robust performance in marine environments.

1. **Enclosure:** This subwoofer requires a suitable marine-grade enclosure. Consult a professional or refer to subwoofer enclosure design guides for optimal performance.
2. **Mounting:** Securely mount the subwoofer into the chosen enclosure or mounting location. Ensure a tight seal to prevent water ingress and optimize sound quality.
3. **Wiring:** The XL-1240DMF is a dual 4-ohm subwoofer. Wire the voice coils in parallel for a 2-ohm load to match the MXA300.1 amplifier's optimal output (300W RMS at 2 ohms). Ensure correct polarity.



Figure 4: The Memphis Audio XL-1240DMF 12" Dual 4-Ohm Marine Subwoofer with its grill, featuring a new polycarbonate glass fiber basket.

4. OPERATING INSTRUCTIONS

Once installed, follow these steps to operate your Memphis Audio system:

1. **Initial Power-Up:** After all connections are made and verified, reconnect the vehicle's battery. Turn on your head unit. The amplifier should power on automatically via the remote turn-on signal.
2. **Gain Adjustment:** Start with the amplifier's gain control at its minimum setting. Play a familiar piece of music at a moderate volume from your head unit. Slowly increase the amplifier's gain until you hear distortion, then back off slightly. This sets the maximum clean output.
3. **Subsonic Filter:** The MXA300.1 features a subsonic filter. This filter helps protect the subwoofer from damaging ultra-low frequencies below its operational range. Adjust this filter according to your subwoofer's specifications and enclosure tuning.
4. **Listening:** Enjoy your high-quality marine audio experience. Avoid prolonged listening at extremely high volumes to prevent damage to your hearing and equipment.

5. MAINTENANCE

Regular maintenance ensures the longevity and performance of your marine audio system.

- **Cleaning:** Periodically wipe down the amplifier and subwoofer with a damp cloth to remove salt, dirt, and debris. Do not use harsh chemicals or abrasive cleaners.
- **Connections:** Annually inspect all wiring connections for corrosion, looseness, or damage. Tighten any loose connections and clean any corrosion.

- **Ventilation:** Ensure the amplifier's cooling fins are free from obstructions to allow proper heat dissipation.
- **Storage:** If storing the vessel for an extended period, ensure the audio system is clean and dry.

6. TROUBLESHOOTING

If you encounter issues with your Memphis Audio system, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No Sound	No power to amplifier; loose connections; blown fuse; head unit not on.	Check power, ground, and remote wires. Verify inline fuse. Ensure head unit is on and sending signal.
Distorted Sound	Gain set too high; improper wiring; damaged speaker/amplifier.	Reduce amplifier gain. Check speaker wiring for correct polarity and shorts. Inspect components for damage.
Amplifier Overheating	Insufficient ventilation; impedance mismatch; prolonged high volume.	Ensure proper airflow around amplifier. Verify subwoofer wiring impedance (should be 2 ohms for MXA300.1). Reduce listening volume.
Subwoofer Not Moving	No signal from amplifier; damaged voice coil; incorrect wiring.	Check amplifier output. Verify subwoofer wiring. Test subwoofer with another known good amplifier if possible.

If these steps do not resolve the issue, please contact Memphis Audio customer support.

7. SPECIFICATIONS

Memphis Audio MXA300.1 Powersports Mono Amplifier

- **RMS Power @ 4Ω:** 190W x 1
- **RMS Power @ 2Ω:** 300W x 1
- **THD% @ 4Ω:** <1%
- **Frequency Response:** 19Hz - 280Hz
- **Dimensions (L x W x H):** 8.625" x 3.25" x 1.75"
- **Input Range:** 350mV - 11V
- **Water Resistance:** IP66 Rated
- **Features:** High/Low Level inputs, Sealed Connectors, Compact footprint, Subsonic filter, Designed specifically for Powersports Application.
- **Recommended Amp Kit:** 8GKIT

Memphis Audio XL-1240DMF 12" Dual 4-Ohm Marine Subwoofer

- **Speaker Type:** Subwoofer
- **Subwoofer Diameter:** 12 Inches
- **Voice Coil Configuration:** Dual 4-Ohm
- **Special Feature:** Waterproof
- **Basket Material:** New Polycarbonate Glass Fiber
- **Item Weight:** Approximately 17.6 Pounds

- **Package Dimensions:** 19 x 15 x 9 inches

8. WARRANTY INFORMATION

Memphis Audio products are covered by a **2-year warranty** from the date of purchase. This warranty covers defects in material and workmanship under normal use. It does not cover damage caused by improper installation, accident, misuse, abuse, negligence, or unauthorized modification. Please retain your proof of purchase for warranty claims.

9. CUSTOMER SUPPORT

For technical assistance, warranty claims, or further information regarding your Memphis Audio MXA300.1 Marine Amplifier and XL-1240DMF Subwoofer, please contact Memphis Audio customer support directly. You can visit the official Memphis Audio website for contact details or refer to the product packaging for specific support information.

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