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> MB Quart RW-108A 8-inch Powered Subwoofer Instruction Manual

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Reference Series Slim Low Profile Active Powered Subwoofer Enclosure

1. INTRODUCTION

Thank you for choosing the MB Quart RW-108A 8-inch Powered Subwoofer. This compact, active subwoofer system is designed to deliver powerful bass in vehicles with limited space, such as under seats. It features an integrated amplifier and a durable aluminum enclosure for optimal performance and longevity. This manual provides essential information for proper installation, operation, and maintenance of your subwoofer.

2. SAFETY INFORMATION

Please read all instructions carefully before installation and use. Failure to follow these guidelines may result in damage to the product, vehicle, or personal injury.

- **Professional Installation Recommended:** If you are unsure about any aspect of installation, consult a qualified car audio technician.
- **Electrical Safety:** Disconnect the vehicle's battery negative terminal before starting any electrical work. Ensure all wiring is properly insulated and fused to prevent short circuits and fire hazards.
- **Mounting:** Securely mount the subwoofer to prevent it from becoming a projectile in the event of a sudden stop or accident. Do not obstruct vehicle controls or safety devices.
- **Ventilation:** Ensure adequate airflow around the subwoofer to prevent overheating. Do not cover the unit with carpets or other materials that could impede heat dissipation.
- **Volume Levels:** Prolonged exposure to high volume levels can cause hearing damage.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- MB Quart RW-108A Powered Subwoofer

- Wired Bass Remote Control
- Microphone (if included with remote control unit)
- Mounting Hardware (screws, brackets)
- Wiring Harnesses (Power, Ground, Remote, High-Level Input)
- User Manual (this document)

4. PRODUCT OVERVIEW

The MB Quart RW-108A is an all-inclusive solution designed for powerful bass reproduction in a compact form factor. Its robust aluminum construction aids in heat dissipation, ensuring reliable performance.

Key Features:

- 600W Peak Power Output
- 8-inch 4-Ohm Subwoofer
- Integrated Amplifier
- Slim, Low-Profile Design for Under-Seat Mounting
- Efficient Circuit Topology for High Power in a Compact Heatsink
- Stable Power Delivery with Minimal Heat Generation
- Wired Bass Remote for Convenient Adjustments
- Advanced Protection Circuits (Overheat, Reverse Polarity)
- Durable Aluminum Enclosure with Protective Metal Grille

Component Identification:



Figure 4.1: MB Quart RW-108A Subwoofer showing approximate dimensions (Length: 13", Width: 9 1/4", Height: 2 1/4").



Figure 4.2: Rear panel connections including Power Input, Fuse, Line Inputs (High/Low Level), Remote Control port, and audio adjustment controls.



Figure 4.3: Wired Bass Remote Control for adjusting subwoofer output level.

5. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and safety. Refer to Figure 4.2 for connection points on the rear panel.

5.1 Mounting Location

The slim design of the RW-108A allows for flexible mounting. Common locations include under a seat, in the trunk, or behind a truck seat. Choose a location that:

- Provides secure attachment to the vehicle chassis.
- Allows for adequate ventilation around the unit.
- Does not interfere with vehicle operation or passenger safety.
- Is accessible for wiring connections and adjustments.

5.2 Wiring Connections

Follow these steps for wiring your subwoofer:

1. **Power (BATT +12V):** Connect a heavy-gauge power cable (typically 8-gauge or 10-gauge, depending on cable length) directly from the vehicle's positive battery terminal to the +12V terminal on the subwoofer. Install an in-line fuse (not supplied, typically 20A-30A) within 18 inches (45 cm) of the battery.
2. **Ground (GND):** Connect a heavy-gauge ground cable of the same size as the power cable from the GND terminal on the subwoofer to a clean, unpainted metal surface of the vehicle chassis. Ensure a good electrical connection.
3. **Remote Turn-On (REM):** Connect a remote turn-on wire from your head unit's remote output (usually a blue/white wire) to the REM terminal on the subwoofer. This wire tells the subwoofer to turn on and off with your head unit.
4. **Audio Input:**
 - **Low-Level Input (RCA):** If your head unit has RCA pre-outs, connect RCA cables from the head unit's subwoofer or full-range outputs to the "LOW LEVEL" RCA inputs on the subwoofer.
 - **High-Level Input (Speaker Level):** If your head unit does not have RCA pre-outs, use the supplied high-level input harness. Connect the speaker wires from your head unit's front or rear speaker outputs to the corresponding wires on the high-level input harness.
5. **Remote Control:** Plug the wired bass remote control into the "REMOTE CONTROL" port on the subwoofer. Route the cable to a convenient location for the driver.

Important: Double-check all connections before reconnecting the vehicle's battery. Incorrect wiring can cause damage to the subwoofer or vehicle electrical system.

6. OPERATING INSTRUCTIONS

Once installed, you can adjust the subwoofer's settings to match your audio system and personal preferences. Refer to Figure 4.2 for control locations.

6.1 Initial Setup and Adjustments

1. **Input Level (GAIN):** Start with the "INPUT LEVEL" control set to minimum (MIN). Play a familiar piece of music with strong bass. Slowly increase the "INPUT LEVEL" until you hear distortion, then back it off slightly. This matches the subwoofer's input sensitivity to your head unit's output.
2. **Low Pass Filter (LPF):** This control (labeled "LOW PASS") sets the upper frequency limit for the subwoofer. Adjust it to blend smoothly with your main speakers. A common starting point is 80-100 Hz. Frequencies above this setting will not be reproduced by the subwoofer.
3. **Bass Boost:** The "BASS BOOST" control provides an adjustable boost at a specific low frequency (e.g., 0-12dB at 50Hz). Use this sparingly to enhance bass impact if desired. Excessive boost can lead to distortion and potential damage.
4. **Phase Control:** The "PHASE" switch (0°/180°) helps to ensure the subwoofer's output is in phase with your main speakers. Listen to music and switch between 0° and 180°. Choose the setting that provides the most impactful and cohesive bass response.
5. **Auto Turn On:** The "AUTO TURN ON" switch (OFF/DC/VOX) determines how the subwoofer turns on.
 - **OFF:** Subwoofer turns on via the REM wire.
 - **DC:** Subwoofer turns on when it detects a DC offset on the high-level inputs (common with factory head units).
 - **VOX:** Subwoofer turns on when it detects an audio signal on the high-level inputs.

Select the appropriate setting based on your head unit's capabilities. If using the REM wire, set to OFF.

6.2 Wired Bass Remote

The wired bass remote (Figure 4.3) allows you to conveniently adjust the subwoofer's output level from the driver's seat without accessing the unit directly. This control only affects the subwoofer's volume and does not override the main "INPUT LEVEL" setting on the subwoofer itself.

7. MAINTENANCE

The MB Quart RW-108A is designed for durability and requires minimal maintenance.

- **Cleaning:** Use a soft, dry cloth to wipe the exterior of the unit. Do not use harsh chemicals, solvents, or abrasive cleaners.
- **Ventilation:** Periodically check that the cooling fins and surrounding area are free from dust, debris, or obstructions to ensure proper heat dissipation.
- **Connections:** Occasionally inspect wiring connections to ensure they remain secure and free from corrosion.
- **Fuse Replacement:** If the subwoofer stops working, check the in-line fuse on the power cable and the fuse on the unit itself (refer to Figure 4.2). Replace with a fuse of the exact same type and rating.

8. TROUBLESHOOTING

If you experience problems with your RW-108A subwoofer, consult the following troubleshooting guide:

Problem	Possible Cause	Solution
No Power / No Indicator Light	<ul style="list-style-type: none">• Blown fuse (in-line or on unit)• Poor power or ground connection• No remote turn-on signal• "AUTO TURN ON" switch set incorrectly	<ul style="list-style-type: none">• Check and replace fuses with correct rating.• Verify all power and ground connections are secure.• Check remote wire connection and head unit output.• Adjust "AUTO TURN ON" switch (OFF for REM wire, DC/VOX for high-level input).
No Sound Output	<ul style="list-style-type: none">• Input level too low• Incorrect audio input connection• Head unit settings• Subwoofer in protect mode	<ul style="list-style-type: none">• Increase "INPUT LEVEL" control.• Verify RCA or high-level input connections.• Check head unit's subwoofer output or fader settings.• Turn off vehicle, wait a few minutes, then restart. Check for overheating.
Distorted Sound	<ul style="list-style-type: none">• Input level too high• Bass boost too high• Incorrect LPF setting• Poor ground connection	<ul style="list-style-type: none">• Decrease "INPUT LEVEL" control.• Reduce "BASS BOOST" setting.• Adjust "LOW PASS" filter for smoother blend.• Ensure ground connection is clean and secure.

Problem	Possible Cause	Solution
Weak or Muffled Bass	<ul style="list-style-type: none"> • Incorrect phase setting • Input level too low • LPF set too low 	<ul style="list-style-type: none"> • Toggle "PHASE" switch (0°/180°) to find the best setting. • Increase "INPUT LEVEL". • Increase "LOW PASS" filter frequency.

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

9. SPECIFICATIONS

Feature	Specification
Model Name	RW-108A
Brand	MB Quart
Speaker Type	Subwoofer
Subwoofer Diameter	8 Inches
Speaker Maximum Output Power	600 Watts
Audio Output Mode	Stereo (for input processing, output is mono subwoofer)
Connectivity Technology	Wired (Aux, RCA)
Mounting Type	Board Mount, Car Mount, Under Seat Mount
Control Method	Remote Control
Additional Features	Built-In Microphone (likely part of remote unit or for specific auto-tuning features, though unusual for a subwoofer)
Power Source	Corded Electric (Vehicle 12V DC)
Compatible Devices	Laptop, MP3 Player, Smartphone, Tablet, Television (via appropriate head unit/adapter)
UPC	806576231776
Manufacturer	MB Quart Audio

10. WARRANTY AND SUPPORT

MB Quart products are designed and manufactured to the highest quality standards. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official MB Quart website. Keep your purchase receipt as proof of purchase for warranty claims.

For technical support, troubleshooting assistance beyond this manual, or warranty inquiries, please contact MB Quart customer service through their official website or the retailer where the product was purchased.

MB Quart Official Website: www.mbquart.com

