

MB Quart PS1-213

MB Quart PS1-213 Premium 2-Way Component Speaker System Instruction Manual

Model: PS1-213

1. PRODUCT OVERVIEW

The MB Quart PS1-213 Premium 2-Way Component Speaker System is engineered to deliver high-fidelity audio in vehicle environments. This system includes 5.25-inch mid-range/mid-bass speakers, 1-inch dome tweeters, and external audiophile crossover networks, designed for precise frequency separation and optimal sound reproduction.



Image 1.1: The complete MB Quart PS1-213 component speaker system, showing two mid-range speakers, two tweeters, and two external crossover networks.

Key Features:

- **Magnesium Dome Tweeters:** 1-inch dome tweeters with WideSphere Technology for enhanced sound dispersion and clarity.
- **Superior Bass Reproduction:** Lightweight aerated pop paper cones with Mica blend design for robust mid-range and bass frequencies without distortion.
- **External Component Crossover:** Passive Cauer topology Butterworth filter crossovers ensure smooth

frequency transitions between mid-range/mid-bass and tweeter elements.

- **Durable Construction:** High-temperature adhesives, molded polymer sealing gaskets for protection against water and dust, and corrosion-resistant stainless steel connectors.
- **Optimized Power Handling:** Designed for 60 Watts RMS (each speaker) and 120 Watts RMS (system), with peak power handling of 120 Watts (each) and 240 Watts (system) at 4 OHMS impedance.

2. PACKAGE CONTENTS

Verify that all components are present in the package before beginning installation:

- Two (2) 5.25-inch Mid-range/Mid-bass Speakers
- Two (2) 1-inch Magnesium Dome Tweeters
- Two (2) External Audiophile Crossover Networks
- Two (2) Speaker Grills
- Mounting Hardware (screws, clips, etc. - specific items may vary)
- Instruction Manual (this document)

3. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and longevity of your speaker system. If you are unfamiliar with car audio installation, it is recommended to seek professional assistance.

3.1 Safety Precautions

- Disconnect the vehicle's battery before starting any electrical work to prevent short circuits and damage.
- Wear appropriate safety gear, including eye protection.
- Ensure all wiring is properly insulated and secured to prevent chafing and electrical hazards.
- Do not mount speakers where they might obstruct vehicle operation or safety features.

3.2 Speaker Mounting

The 5.25-inch mid-range/mid-bass speakers are designed for standard mounting locations. Ensure the mounting surface is flat and secure. Use the provided screws to firmly attach the speakers.



Image 3.1: Rear view of a 5.25-inch mid-range speaker, showing the terminal connections for wiring.

Tweeters can be flush-mounted or surface-mounted depending on your vehicle's interior and desired sound staging. Refer to your vehicle's specific panel removal and mounting instructions.



Image 3.2: Close-up of an MB Quart PS1-213 tweeter, featuring the protective grill and 'PREMIUM' branding.

3.3 Crossover Network Placement

The external crossover networks are essential for directing the correct frequencies to each speaker component. Mount the crossovers in a dry, secure location, away from excessive heat or moisture. Ensure easy access for wiring connections.



Image 3.3: The external audiophile crossover network, showing internal components visible through the clear casing.

3.4 Wiring Connections

Connect the amplifier output to the input terminals of the crossover network. Then, connect the designated mid-range/mid-bass output from the crossover to the 5.25-inch speakers, and the tweeter output to the 1-inch tweeters. Observe correct polarity (+ to + and - to -) for all connections to ensure proper phase and sound quality. Use high-quality speaker wire of appropriate gauge.

- **Amplifier Output to Crossover Input:** Connect the positive (+) and negative (-) terminals from your amplifier to the corresponding input terminals on the crossover.
- **Crossover to Mid-range/Mid-bass Speaker:** Connect the positive (+) and negative (-) terminals from the 'Woofers' or 'Mid' output on the crossover to the 5.25-inch speaker.
- **Crossover to Tweeter:** Connect the positive (+) and negative (-) terminals from the 'Tweeter' output on the crossover to the 1-inch tweeter.

4. OPERATING INSTRUCTIONS

Once installed, operate your MB Quart PS1-213 speaker system as part of your car audio setup. Follow these guidelines for optimal performance and longevity:

- **Initial Power-Up:** After installation, turn on your car audio system at a low volume level. Gradually increase the volume to ensure all speakers are functioning correctly and without distortion.
- **Amplifier Settings:** Adjust your amplifier's gain settings carefully. Setting the gain too high can lead to distortion and potential speaker damage. Consult your amplifier's manual for proper gain setting procedures.
- **Equalization:** Use your head unit or amplifier's equalizer to fine-tune the sound to your preference. Avoid extreme boosts in bass or treble that could overstress the speakers.
- **Break-in Period:** Allow a break-in period of approximately 10-20 hours of normal listening. This allows the speaker components to loosen up and achieve their optimal sound characteristics.
- **Avoid Distortion:** If you hear any distortion, reduce the volume immediately. Prolonged listening at distorted levels can permanently damage the speakers.

5. MAINTENANCE

The MB Quart PS1-213 speaker system requires minimal maintenance to ensure long-term performance.

- **Cleaning:** Periodically wipe the speaker grills and surrounds with a soft, dry cloth to remove dust and debris. Avoid using harsh chemicals or abrasive cleaners.
- **Environmental Factors:** While designed for vehicle use, avoid exposing the speakers to extreme temperatures, direct sunlight for prolonged periods, or excessive moisture.
- **Connection Checks:** Occasionally check all wiring connections to ensure they remain secure and free from corrosion.

6. TROUBLESHOOTING

If you encounter issues with your speaker system, refer to the following troubleshooting steps:

6.1 No Sound from Speakers

- **Check Power:** Ensure your amplifier and head unit are powered on and functioning correctly.
- **Verify Connections:** Inspect all wiring from the head unit to the amplifier, from the amplifier to the crossovers, and from the crossovers to the speakers. Ensure all connections are secure and correctly polarized.
- **Crossover Settings:** Confirm the crossover inputs and outputs are correctly connected to the amplifier and speakers, respectively.
- **Speaker Wires:** Check for any pinched or cut speaker wires that could cause a short circuit or open circuit.

6.2 Distorted Sound

- **Volume Level:** Reduce the volume. Distortion often occurs when the system is played too loudly or the amplifier gain is set too high.
- **Amplifier Gain:** Re-adjust the amplifier gain settings. It should match the output voltage of your head unit without clipping.
- **Equalizer Settings:** Reset your head unit's or amplifier's equalizer settings to flat. Gradually adjust to identify if a specific frequency boost is causing distortion.
- **Loose Connections:** Check for any loose speaker or signal cable connections that could introduce noise or distortion.

6.3 Unbalanced Sound (One Speaker Louder/Softer)

- **Balance/Fader Settings:** Check the balance and fader settings on your head unit.
- **Wiring:** Verify that the wiring for both channels (left and right) is identical and correctly connected to the amplifier and speakers.
- **Crossover Connections:** Ensure both crossover networks are correctly wired to their respective speakers.

If these steps do not resolve the issue, contact MB Quart customer support or a qualified car audio technician.

7. SPECIFICATIONS







Feature	Specification
Model Name	PS1-213
Speaker Type	2-Way Component System
Woofer Diameter	5.25 Inches
Tweeter Diameter	1 Inch
RMS Power Handling (Each)	60 Watts
RMS Power Handling (System)	120 Watts
Peak Power Handling (Each)	120 Watts
Peak Power Handling (System)	240 Watts
Impedance	4 Ohm
Crossover Type	External Audiophile Crossover Network
Included Components	Grills and external audiophile crossover networks
Product Dimensions	5"D x 8.2"W x 19.8"H (Packaging/Overall)
Item Weight	5.49 pounds
UPC	806576230359

8. WARRANTY AND SUPPORT

The MB Quart PS1-213 Premium 2-Way Component Speaker System comes with a Limited Warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official MB Quart website.

For technical support, service, or inquiries regarding your product, please contact MB Quart customer service through their official channels. Provide your model number (PS1-213) and proof of purchase when seeking support.

Related Documents - PS1-213

	<p>MB QUART DISCUS DKG/DSG Series Car Speaker Installation Manual</p> <p>Comprehensive installation guide for MB QUART DISCUS DKG 110, DKG 113, DKG 116, DSG 213, and DSG 216 car speakers, covering mounting, wiring, and specifications.</p>
	<p>MB QUART Premium/Reference Midrange Kit Installation Guide and Technical Specifications</p> <p>Comprehensive installation guide and technical specifications for MB QUART Premium/Reference Midrange Kit car audio speakers, including model details, mounting instructions, and warranty information.</p>
	<p>MB Quart Discus DS2-216 Component Speaker System Quick Start Installation Guide</p> <p>Concise installation guide for MB Quart Discus DS2-216 component speaker systems, covering component installation, tweeter mounting, wiring, and specifications. Features multilingual support and warranty information.</p>
	<p>MB Quart Discus, Reference, Premium Subwoofer Installation Manual and Specifications</p> <p>Comprehensive installation manual, technical specifications, Thiele Small parameters, enclosure recommendations, and wiring diagrams for MB Quart Discus, Reference, and Premium series dual voice coil subwoofers.</p>
	<p>MB Quart MBQR-SUB-2 RZR-Tuned Audio Package Installation Manual</p> <p>This installation manual provides detailed instructions for installing the MB Quart MBQR-SUB-2 10-inch subwoofer and 400-watt audio package into Polaris RZR vehicles. It covers preparation, disassembly, mounting, wiring, amplifier settings, initial testing, reassembly, and final inspection.</p>
	<p>MB Quart RA1 Series Amplifier Quick Start Installation Guide</p> <p>Comprehensive guide for installing MB Quart RA1 series amplifiers, including models RA1-150.2, RA1-280.4, RA1-300.1, RA1-750.1, and RA1-710.5. Covers power cable sizing, installation steps, system setup, and control adjustments.</p>

