

MB Quart NA23204

MB Quart NA2-320.4 Compact Four Channel Powersports Amplifier User Manual

Model: NA23204

1. INTRODUCTION

Thank you for choosing the MB Quart NA2-320.4 Compact Four Channel Powersports Amplifier. This amplifier is designed to deliver high-quality audio performance in a compact form factor, suitable for various powersports applications. This manual provides essential information for proper installation, operation, and maintenance to ensure optimal performance and longevity of your amplifier.

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.

- **Power Connections:** Always disconnect the vehicle's battery before making any power connections. Ensure all power and ground wires are securely connected to prevent shorts and electrical hazards.
- **Mounting:** Mount the amplifier securely in a location that is protected from moisture, excessive heat, and direct sunlight. Ensure adequate ventilation around the amplifier.
- **Wiring:** Use appropriate gauge wiring for power, ground, and speaker connections as specified in the installation section. Route all wiring away from moving parts, sharp edges, and heat sources.
- **Volume Levels:** Prolonged exposure to high volume levels can cause hearing damage. Adjust volume to a comfortable level.
- **Professional Installation:** If you are unsure about any aspect of the installation, consult a qualified professional installer.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- MB Quart NA2-320.4 Amplifier

- Wiring Harnesses (Power/Speaker Output, RCA Input)
- Mounting Hardware
- User Manual (this document)
- Included Component: -JU711 (specific component, refer to packaging for details)

4. SETUP AND INSTALLATION

Proper installation is crucial for the performance and reliability of your amplifier. Follow these steps carefully.

4.1 Mounting the Amplifier

Choose a mounting location that is dry, well-ventilated, and protected from physical damage. Ensure the amplifier is securely fastened to a solid surface using the provided mounting hardware.

4.2 Wiring Connections

All wiring should be routed carefully to avoid interference and damage. Use the appropriate wire gauges.

Power and Speaker Output Connections



Figure 1: Power Input and Speaker Output Terminals

- **Power Input (12V/GND):** Connect the 12V power wire (typically 10 gauge) from the vehicle's battery (with an inline fuse) to the +12V terminal. Connect the ground wire (10 gauge) to a solid chassis ground point.
- **Remote Turn-On:** Connect the remote turn-on wire from your head unit to the REM terminal.
- **Speaker Output:** Connect your speakers to the designated speaker output terminals using the Molex plug connector. Ensure correct polarity for each speaker.

Audio Input and Crossover Controls



Figure 2: RCA Input, Crossover Switches, and Level Controls

- **RCA Inputs:** Connect the RCA cables from your head unit's pre-outs to the FRONT and REAR RCA input jacks on the amplifier.
- **Crossover Type (FRONT X-OVER / REAR X-OVER):** Use the switches to select the desired crossover mode for the front and rear channels. Options are HP (High Pass) or FULL (Full Range).
- **Level Adjustment (FRONT / REAR):** Adjust the input level controls (0.2V to 9V) to match the output voltage of your head unit. Start with the level set to minimum and slowly increase until desired volume is achieved without distortion.

5. OPERATING INSTRUCTIONS

Once installed and wired correctly, the amplifier will power on automatically with your head unit (via the remote turn-on wire).

- **Initial Power-Up:** After all connections are made, reconnect the vehicle's battery. Turn on your head unit. The amplifier's power indicator (blue LED) should illuminate. If the protect indicator (red LED) illuminates, refer to the troubleshooting section.
- **Adjusting Audio Levels:** Set your head unit's volume to about 75% of its maximum. Slowly increase the amplifier's level controls (FRONT and REAR) until you hear clear, undistorted sound. Avoid setting the level too high, as this can cause distortion and damage to speakers.
- **Crossover Settings:** Adjust the FRONT and REAR X-OVER switches based on your speaker setup. For full-range speakers, select FULL. For speakers that should only play higher frequencies (e.g., component speakers), select HP (High Pass).

6. MAINTENANCE

The MB Quart NA2-320.4 amplifier requires minimal maintenance to ensure long-term performance.

- **Cleaning:** Periodically wipe the amplifier's exterior with a soft, dry cloth to remove dust and debris. Do not use harsh chemicals or abrasive cleaners.
- **Connections:** Occasionally check all wiring connections to ensure they remain secure and free from corrosion.
- **Ventilation:** Ensure that the amplifier's cooling fins are not obstructed to allow for proper heat dissipation.

7. TROUBLESHOOTING

If you experience issues with your amplifier, consult the following table before contacting support.

Problem	Possible Cause	Solution
No Power (Power LED Off)	Blown fuse, poor power/ground connection, no remote signal.	Check inline fuse, verify power and ground connections, ensure remote wire is connected and receiving 12V.
Protect LED On	Short circuit in speaker wiring, amplifier overheating, low voltage.	Check speaker wiring for shorts, ensure adequate ventilation, verify vehicle battery voltage.
No Sound Output	RCA cables disconnected, input level too low, speaker wires disconnected.	Check RCA connections, increase input level, verify speaker wire connections.
Distorted Sound	Input level too high, poor ground connection, damaged speakers.	Reduce input level, check ground connection, inspect speakers for damage.

8. SPECIFICATIONS

Detailed technical specifications for the MB Quart NA2-320.4 amplifier:

Feature	Specification
Class	Full Range Class D
Total Channels	4
Output Power @ 2-Ohms	4 x 80W
Output Power @ 4-Ohms	4 x 40W
Variable Voltage Input	0.2V ~ 9V
Signal to Noise Ratio	>90dB
Frequency Response	20Hz-20kHz
Crossover Type	Switched HP/Full (Channels 1&2, 3&4)
Bass Boost	0-12dB @ 45Hz
Audio Inputs	RCA
Power Terminal	Molex 10 ga (12V/GND)
Speaker Terminal	Molex Plug Connector
Fusing	1 x 30 Amps
Certifications	Marine & Powersports, Abyc, Astm

Feature	Specification
Dimensions (L x W x H)	3.70 x 5.51 x 1.77 inches (9.4 x 14.0 x 4.5 cm)
Weight	2.16 lbs (0.98 kg) / 16 ounces
Material Type	Metal
Country Of Origin	China

9. WARRANTY INFORMATION

This MB Quart NA2-320.4 amplifier is covered by a manufacturer's warranty. Please refer to the warranty card included with your product or visit the official MB Quart website for detailed terms and conditions regarding warranty coverage, duration, and claim procedures.

10. SUPPORT

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact MB Quart customer support. You can find contact information and additional resources on the official MB Quart website or through their Amazon Brand Store:

[Visit the MB Quart Store on Amazon](#)