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› Rockville RXD-M0 Mono Class D Car Amplifier User Manual

Rockville Rxd-m0

Rockville RXD-M0 Mono Class D Car Amplifier User Manual

MODEL: RXD-M0

1. Introduction

Thank you for purchasing the Rockville RXD-M0 Mono Class D Car Amplifier. This manual provides essential information for the proper installation, operation, and maintenance of your amplifier. Please read this guide thoroughly before attempting installation or use to ensure optimal performance and safety. Keep this manual for future reference.

2. Safety Instructions

- **Professional Installation Recommended:** Due to the complexity of car audio systems, professional installation is highly recommended. Incorrect wiring can cause damage to the amplifier, vehicle, or personal injury.
- **Power Disconnection:** Always disconnect the vehicle's negative battery terminal before starting any installation.
- **Proper Wiring:** Ensure all wiring is correctly connected and insulated to prevent short circuits. Use appropriate gauge wire for power and ground connections.
- **Mounting Location:** Mount the amplifier securely in a dry, well-ventilated area, away from direct sunlight, heat sources, and moisture. Ensure adequate airflow around the amplifier for cooling.
- **Fuse Protection:** Always use the correct fuse rating as specified. Never replace a fuse with one of a higher amperage.
- **Volume Levels:** Avoid operating the amplifier at excessively high volume levels for extended periods, as this can cause hearing damage and speaker damage.

3. Package Contents

Verify that all items are present in your package:

- Rockville RXD-M0 Mono Class D Car Amplifier
- Remote Dashboard Subwoofer Control
- Mounting Hardware
- User Manual

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Video: Unboxing the Rockville RXD-M0 Amplifier. This video demonstrates the contents of the amplifier package.

4. Features

The Rockville RXD-M0 amplifier incorporates several advanced features for superior audio performance:

- Dyno-Certified Power Output: 300W RMS at 1 ohm, 200W RMS at 2 ohms, 150W RMS at 4 ohms.
- Adjustable 12dB/octave crossover.
- Subsonic filter (15Hz - 55Hz).
- 12dB bass equalizer.
- High-speed MOSFET power supply for stable and efficient performance.
- Remote dashboard subwoofer control.
- LED-illuminated logo.
- RCA line input/output.
- IC-controlled protection circuitry against overheating, voltage fluctuations, and short circuits.



Image: Overview of key performance features including Dyno-Certified RMS Power, High-Pass Crossover, and Damping Factor.



Image: The RXD-M0 amplifier highlighting its Peak Limiter Circuitry for distortion-free sound.



Image: Internal technologies of the RXD-M0, including Class-D, RCA Preamp Line Output, 8-Volt Preamp Circuitry, IC-Controlled Protection Circuitry, and Low-Pass/Subsonic Filter.



Image: The RXD-M0 amplifier's Bipolar Output Stage Transistors for superior sound quality and minimal distortion.



Image: The RXD-M0 amplifier's Mute & Delay Soft Start feature, ensuring a gradual power-up and speaker protection.

5. Setup & Installation

Proper installation is crucial for the performance and longevity of your amplifier. Consult a professional if you are unsure about any steps.

5.1 Wiring Connections

Ensure all power, ground, remote, and speaker wires are securely connected. Use appropriate gauge wiring for your power requirements.

- **Power (+12V):** Connect to the positive terminal of the car battery via an in-line fuse holder (not supplied).

- **Ground (GND):** Connect to a clean, unpainted metal surface of the vehicle chassis.
- **Remote (REM):** Connect to the remote turn-on output of your head unit.
- **Speaker Output:** Connect to your subwoofer(s) ensuring correct polarity and impedance matching. The RXD-M0 is stable down to 1 Ohm.
- **RCA Input:** Connect to the RCA output of your head unit.

Tailor Your Audio To Perfection



Fine-tune the alignment between your subwoofer and other speakers, optimizing bass response and ensuring a cohesive sound experience.

Image: Rear view of the RXD-M0 amplifier showing the power, ground, remote, and speaker output terminals, along with the fuse holder.

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Video: How to Set the Gain on Your Car Subwoofer Amplifier. This video provides a detailed guide on properly adjusting the gain settings for optimal performance.

6. Operating Instructions

The RXD-M0 amplifier offers various controls to fine-tune your audio experience.

6.1 Control Panel Overview

Perfect Sound And Zero Distortion With Peak Limiter Circuitry



Ensures distortion-free playback by automatically adjusting the signal level to prevent clipping, protecting your speakers while delivering consistent, high-quality sound.

Image: Top view of the RXD-M0 amplifier's control panel, showing input/output, phase switch, crossover frequency, bass equalizer, and status indicator.

6.2 Adjusting Settings

- **Input Level (Gain):** Adjust this control to match the output voltage of your head unit. Start with the gain at minimum and slowly increase until you hear distortion, then back off slightly.
- **Subsonic HP Filter:** This filter removes extremely low frequencies that are inaudible and can cause damage to subwoofers. Adjust between 15Hz and 55Hz.
- **Low Pass Filter (LPF):** This filter allows only frequencies below the set point to pass through to the subwoofer. Adjust the frequency to blend with your main speakers.
- **Bass Equalizer:** Provides a bass boost at a specific frequency. Use sparingly to avoid distortion.
- **Phase Control:** A 0°/180° switch to adjust the phase of the subwoofer output relative to the main speakers, optimizing bass response.
- **Bass Remote:** Connect the included remote control for convenient adjustment of bass levels from the driver's seat.

Power That Hits Harder

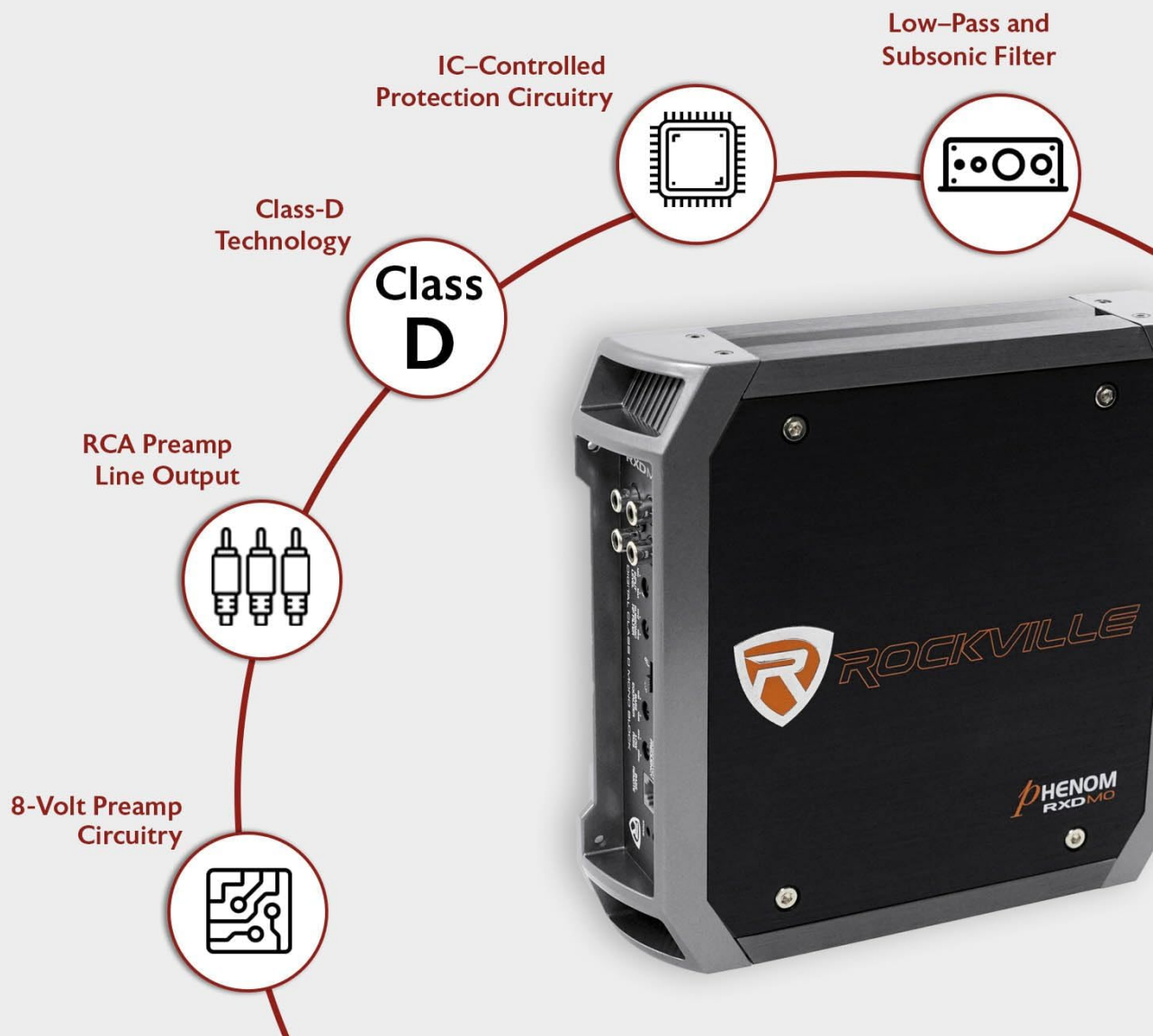


Image: The remote bass knob for the RXD-M0 amplifier, allowing convenient bass level adjustment.



Image: Close-up of the RXD-M0 amplifier's Phase Control Switch, used for fine-tuning audio alignment.

7. Maintenance

To ensure the longevity and optimal performance of your RXD-M0 amplifier, follow these maintenance guidelines:

- **Cleaning:** Periodically wipe the amplifier's exterior with a soft, dry cloth. Avoid using harsh chemicals or abrasive cleaners.
- **Connections:** Regularly check all power, ground, remote, and speaker connections to ensure they are secure and free from corrosion. Loose connections can lead to poor performance or damage.
- **Ventilation:** Ensure that the amplifier's cooling fins are free from dust and debris to maintain proper heat dissipation.

8. Troubleshooting

If you experience issues with your RXD-M0 amplifier, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No Power / Amplifier Not Turning On	Blown fuse, loose power/ground/remote wire, faulty head unit remote output.	Check and replace fuse if necessary. Verify all power, ground, and remote connections. Test remote wire for 12V signal.
No Sound Output	Loose RCA cables, incorrect gain setting, speaker wires disconnected, amplifier in protection mode.	Check RCA connections. Adjust gain. Verify speaker wiring. Check protection indicator light.
Distorted Sound	Gain set too high, incorrect crossover settings, poor ground connection, damaged speakers.	Reduce gain. Adjust LPF/Subsonic filter. Ensure solid ground connection. Test speakers.

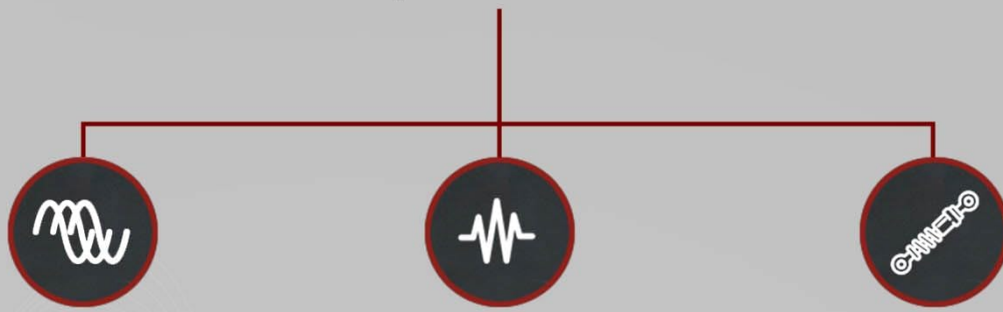
Problem	Possible Cause	Solution
Amplifier Overheating	Insufficient ventilation, impedance too low, prolonged high volume.	Ensure proper airflow. Verify speaker impedance. Reduce volume or allow cooling.

9. Specifications

Detailed technical specifications for the Rockville RXD-M0 amplifier:

- **RMS Power Output:**
 - 1 Ohm: 300 Watts x 1 Channel (<1% THD+N)
 - 2 Ohms: 200 Watts x 1 Channel (<1% THD+N)
 - 4 Ohms: 150 Watts x 1 Channel
- **Peak Power Output:**
 - 1 Ohm: 1200 Watts x 1 Channel
 - 2 Ohms: 800 Watts x 1 Channel
 - 4 Ohms: 600 Watts x 1 Channel
- **Minimum Impedance:** 1 Ohm
- **Crossover:** Adjustable 12dB/octave
- **Subsonic Filter:** 15Hz - 55Hz
- **Bass Equalizer:** 12dB
- **Preamp Output Voltage:** 8 Volts
- **Dimensions (L x W x H):** 3 x 3 x 3 inches (Note: This dimension seems unusually small for an amplifier of this power. Please refer to product packaging for exact dimensions.)
- **Weight:** 0.01 Ounces (Note: This weight seems unusually low. Please refer to product packaging for exact weight.)
- **Included Components:** Amplifier

Power-Up Your Car Audio



Dyno-Certified RMS Power
300 Watts x 1 @ 1 Ohm

High-Pass Crossover
10Hz-500kHz

Damping Factor
>200 @ 100 Hz



Image: The RXD-M0 amplifier with a summary of its Dyno-Certified RMS and Peak Power specifications at various impedances.

10. Warranty and Support

The Rockville RXD-M0 amplifier comes with a **1-Year Warranty**. For technical assistance or warranty inquiries, please contact Rockville customer support. Ensure you have your proof of purchase and product model number available when contacting support.