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## Marts Digital MD-MXD-8000-1-V2

# Marts Digital MXD-8000-1-V2 Monoblock Car Audio Amplifier Instruction Manual

Model: MD-MXD-8000-1-V2

## 1. INTRODUCTION

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This manual provides detailed instructions for the installation, operation, and maintenance of your Marts Digital MXD-8000-1-V2 Monoblock Car Audio Amplifier. Please read this manual thoroughly before attempting installation or operation to ensure proper function and safety.

## 2. SAFETY INFORMATION

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- Always disconnect the vehicle's battery negative terminal before starting any electrical work.
- Ensure all wiring is properly routed and secured to prevent damage or short circuits.
- Use appropriate gauge wiring for power and ground connections as specified in the installation section.
- Mount the amplifier in a location that allows for adequate ventilation to prevent overheating.
- Avoid mounting the amplifier in areas exposed to moisture or excessive vibration.
- Professional installation is recommended for optimal performance and safety.

## 3. WHAT'S IN THE BOX

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Upon unpacking, please verify that all items are present:

- Marts Digital MXD-8000-1-V2 Amplifier
- Bass Knob (Remote Level Control)
- CAT-5 Cable for Bass Knob
- Mounting Hardware (screws, etc.)



Image: The retail packaging for the Marts Digital MXD-8000-1-V2 amplifier, showing the brand logo and model number.

## 4. SETUP AND INSTALLATION

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### 4.1 Mounting the Amplifier

Choose a secure, dry location with sufficient airflow. Ensure the amplifier is mounted firmly to prevent movement during vehicle operation.

### 4.2 Power and Ground Connections

The MXD-8000-1-V2 features dual 0-gauge power/ground inputs for maximum current delivery. Connect the amplifier directly to the vehicle's battery using a high-quality 0-gauge power cable with an inline fuse (not included) located within 18 inches of the battery. Connect the ground terminal to a clean, solid chassis ground point using a 0-gauge cable of equal length to the power cable.



Image: Rear view of the amplifier displaying the dual 0-gauge input terminals for GND (Ground), +12V (Power), and REM (Remote Turn-On). Note the larger input terminals designed for thicker wires.

### 4.3 Remote Turn-On Connection

Connect the REM terminal to the remote turn-on output of your head unit. This signal turns the amplifier on and off with your audio system.

### 4.4 Speaker Output Connection

Connect your subwoofer(s) to the SPEAKER OUTPUT terminals. This amplifier is designed for 1-Ohm stable operation. Ensure your speaker impedance matches the amplifier's capabilities.



Image: Front view of the amplifier showing the RCA input and output, crossover and bass boost controls, remote input, and speaker output terminals. The speaker output is labeled for 1 Ohm impedance.

### 4.5 RCA Input Connection

Connect the RCA INPUT from your head unit's pre-out to the amplifier's RCA input. The amplifier features Tiffany-style RCA inputs for enhanced connectivity and signal integrity.

### 4.6 Remote Bass Knob Installation

Connect the provided CAT-5 cable from the amplifier's REMOTE input (RJ45 port) to the remote bass knob. Mount the bass knob in a convenient location for easy access.



Image: A coiled CAT-5 cable, used to connect the remote bass knob to the amplifier.



Image: The remote bass knob unit, showing the CAT-5 input port on the side.

## 5. OPERATING INSTRUCTIONS

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### 5.1 Adjusting Controls

The amplifier features adjustable gain, crossover (HIGH/LOW), and bass boost controls. Use these to fine-tune the audio output to your preference and match your speaker characteristics.

- **GAIN:** Adjusts the input sensitivity to match the output of your head unit. Start with the gain at minimum and slowly increase until desired volume is achieved without distortion.
- **CROSSOVER (FREQ):** Sets the frequency range for the amplifier's output. For subwoofers, typically set to a low-pass filter (LPF) between 50Hz and 100Hz.
- **BASS BOOST:** Provides an adjustable bass enhancement at a specific frequency. Use sparingly to avoid distortion.

### 5.2 Remote Bass Knob Functions

The upgraded remote bass knob provides convenient control and monitoring:



Image: Close-up of the remote bass knob, featuring a digital display for voltage/temperature, a rotary control for bass level, and LED indicators for PWR (Power), PRT (Protect), and CLIP (Clipping).

- **Bass Level Control:** Adjusts the output level of the amplifier.
- **Voltage/Temperature Meter:** Displays real-time voltage and temperature readings of the amplifier.
- **PWR (Power) LED:** Illuminates when the amplifier is powered on.
- **PRT (Protect) LED:** Illuminates when the amplifier enters protection mode due to overheating, short circuit, or low voltage.
- **CLIP (Clipping) LED:** Illuminates when the audio signal is clipping, indicating potential distortion. Reduce gain or input level to prevent clipping.

## 6. MAINTENANCE

The Marts Digital MXD-8000-1-V2 amplifier requires minimal maintenance. Keep the amplifier clean and free from dust and debris. Ensure adequate ventilation around the unit. Periodically check all wiring connections for tightness and corrosion.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Amplifier does not turn on	No power, ground, or remote signal; Blown fuse	Check all power, ground, and remote connections. Verify inline fuse.
No sound output	RCA cables disconnected; Speaker wires disconnected; Gain too low; Head unit issue	Check RCA and speaker connections. Adjust gain. Test head unit.
Distorted sound	Gain set too high; Clipping (check CLIP LED); Improper crossover settings; Speaker impedance mismatch	Reduce gain. Adjust crossover. Verify speaker impedance.
Amplifier goes into protect mode (PRT LED on)	Overheating; Short circuit in speaker wiring; Low voltage; Speaker impedance too low	Allow amplifier to cool. Check speaker wiring for shorts. Verify vehicle's electrical system. Ensure correct speaker impedance.

## 8. SPECIFICATIONS

Feature	Detail
Model Number	MD-MXD-8000-1-V2
RMS Power (1 Ohm, 12.6V)	8000W
Amplifier Class	Class D
Product Dimensions	20 x 11 x 4.5 inches
Height	3 inches
Width	9 inches
Input Terminals	Dual 0-gauge Power/Ground
RCA Inputs	Tiffany Style
Remote Control	Upgraded Bass Knob with Voltage/Temp Meter, Power/Protect/Clipping LEDs

## 9. WARRANTY INFORMATION

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This product is covered by a manufacturer's warranty. Please refer to the warranty card included with your product or contact Marts Digital customer support for specific details regarding warranty terms and conditions.

## 10. SUPPORT

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For technical assistance, troubleshooting, or further inquiries, please visit the official Marts Digital website or contact their customer support department. You can also find additional resources and product information on the Marts Digital Store on Amazon.