

## Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

[manuals.plus](#) /

- › [Marts Digital](#) /
- › [Marts Digital MP-8000-1 Monoblock Amplifier User Manual](#)

## Marts Digital MP-8000-1

# Marts Digital MP-8000-1 Monoblock Amplifier User Manual

Premium Monoblock Amplifier 8K Watts 1-Ohm Class-D

## INTRODUCTION

---

This manual provides essential information for the proper installation, operation, and maintenance of your Marts Digital MP-8000-1 Monoblock Amplifier. To ensure optimal performance and longevity of the product, please read this manual thoroughly before installation and retain it for future reference.

## WHAT'S IN THE BOX

---

Upon unpacking, please verify that all items listed below are present and in good condition.

- (1) Marts Digital Amplifier MP-8000-1
- (1) Set of 4 Phillips Screws
- (2) Hex Wrenches

## PRODUCT OVERVIEW

---

The Marts Digital MP-8000-1 is a high-performance Class D monoblock amplifier designed to deliver significant power output for car audio systems. It features a robust design and advanced circuitry to ensure stable and clear audio reproduction.



**Figure 1:** Top view of the Marts Digital MP-8000-1 Monoblock Amplifier. This image displays the amplifier's sleek black casing with the Marts Digital logo and model number prominently displayed.



**Figure 2:** Angled top view of the Marts Digital MP-8000-1 Monoblock Amplifier, showing the heat sink fins along the sides.

## SETUP AND INSTALLATION

---

Proper installation is crucial for the performance and safety of your amplifier. It is recommended that installation be performed by a qualified professional.

### Safety Precautions

- Disconnect the vehicle's negative battery terminal before starting any electrical work.
- Ensure all wiring is properly insulated to prevent short circuits.
- Install a fuse or circuit breaker on the positive (+) terminal of the battery, close to the battery itself, as indicated on the amplifier.
- Mount the amplifier securely to prevent movement during vehicle operation.
- Ensure adequate ventilation around the amplifier to prevent overheating.

### Mounting the Amplifier

1. Choose a mounting location that is dry, well-ventilated, and away from direct sunlight or heat sources.
2. Use the provided screws to secure the amplifier to a solid surface. Ensure the mounting surface can support the amplifier's weight.

## Wiring Connections



**Figure 3:** Rear view of the amplifier showing the power, ground, and remote turn-on terminals, along with cooling fans. A caution label regarding adding a fuse or circuit breaker is visible.

1. **Power Connection (BATTERY +):** Connect a heavy-gauge power cable from the vehicle's positive battery terminal to the amplifier's "BATTERY +" terminal. Install an appropriate fuse or circuit breaker within 18 inches (45 cm) of the battery.
2. **Ground Connection (BATTERY -):** Connect a heavy-gauge ground cable from the amplifier's "BATTERY -" terminal to a clean, unpainted metal point on the vehicle's chassis. Ensure a solid electrical connection.
3. **Remote Turn-On (REM):** Connect a remote turn-on wire from your head unit's remote output to the amplifier's "REM" terminal. This wire turns the amplifier on and off with your head unit.
4. **Speaker Connection:** Connect your subwoofer(s) to the amplifier's speaker terminals. Ensure correct polarity (+ to + and - to -). The amplifier is designed for 1-Ohm stable operation.



**Figure 4:** Rear view of the amplifier showing the audio input (IN) and various control knobs for Gain, Frequency (FREQ), High Pass Filter (HI PASS), Low Pass Filter (LOW PASS), Sub Sonic filter, Limiter, and Level.

5. **Audio Input (IN):** Connect RCA cables from your head unit's subwoofer output to the amplifier's "IN" RCA inputs.

## OPERATING INSTRUCTIONS

---

Once the amplifier is correctly installed and wired, you can proceed with adjusting its settings for optimal audio performance.

### Initial Power-Up

1. Double-check all wiring connections.
2. Reconnect the vehicle's negative battery terminal.
3. Turn on your head unit. The amplifier should power on automatically via the remote turn-on wire.

### Adjusting Controls

- **GAIN:** This control matches the amplifier's input sensitivity to the output level of your head unit. Start with the gain set to minimum. Gradually increase it until you hear distortion, then back off slightly. Do not use the gain control as a volume knob.
- **FREQ (Boost):** This knob adjusts the frequency for bass boost.
- **HI PASS (High Pass Filter):** This filter allows frequencies above the set point to pass through. For subwoofer applications, this should typically be set to its minimum or off, as subwoofers handle low frequencies.
- **LOW PASS (Low Pass Filter):** This filter allows frequencies below the set point to pass through. For subwoofers, set this to filter out higher frequencies, typically between 80Hz and 120Hz, depending on your subwoofer and personal preference.
- **SUB SONIC:** This filter removes extremely low frequencies that are below the audible range or harmful to subwoofers. Set it to protect your subwoofer from over-excursion, typically between 10Hz and 30Hz.
- **LIMITER:** This feature helps prevent clipping and distortion by limiting the output signal when it reaches a certain threshold. Adjust according to your system's needs to maintain sound quality.
- **LEVEL:** This control adjusts the overall output level.

## SPECIFICATIONS

---

Technical specifications for the Marts Digital MP-8000-1 Monoblock Amplifier.

Feature	Specification
RMS Power @ 1 Ohm	1CH x 8900W
RMS Power @ 2 Ohm	1CH x 5620W
RMS Power @ 4 Ohm	1CH x 3620W
Total Harmonic Distortion (THD)	0.30%
Low Pass Filter (LPF)	80Hz - 20kHz
Sub Sonic Filter	10Hz - 200Hz
Frequency Response	10Hz - 20kHz
Signal-to-Noise Ratio (S/N)	80dB
Voltage	13.8 Volts (DC)
Number of Channels	1
Length	18 inches (45.72 cm)
Width	11.5 inches (29.21 cm)
Height	3 inches (7.62 cm)
Weight	9.56 lbs (4.34 kg)
Mounting Type	Surface Mount

## MAINTENANCE

---

Regular maintenance ensures the longevity and optimal performance of your amplifier.

- **Cleaning:** Periodically wipe the amplifier's exterior with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.
- **Ventilation:** Ensure that the cooling fins and fans are free from dust and debris. Blocked ventilation can lead to overheating.
- **Connections:** Periodically check all wiring connections to ensure they are secure and free from corrosion.

## TROUBLESHOOTING

---

If you experience issues with your amplifier, refer to the following common problems and solutions.

- **No Power:**

- Check the inline fuse or circuit breaker on the positive power cable.
- Verify that the remote turn-on wire is connected and receiving 12V from the head unit.
- Ensure power and ground connections are secure and free from corrosion.

- **No Sound:**

- Check RCA input cables for proper connection and integrity.
- Verify speaker wire connections at both the amplifier and the subwoofer.
- Ensure the head unit is powered on and outputting audio.
- Check amplifier gain settings; ensure they are not set too low.

- **Distorted Sound:**

- Reduce the gain setting on the amplifier.
- Check for proper impedance matching between the amplifier and subwoofer(s).
- Ensure speaker wires are not shorted or touching the vehicle chassis.

- **Amplifier Overheating:**

- Ensure adequate ventilation around the amplifier. Clear any obstructions from cooling fins or fans.
- Verify that the speaker impedance is within the amplifier's rated specifications (1-Ohm stable).
- Reduce the gain setting if it is too high.

## WARRANTY AND SUPPORT

---

For warranty information or technical support, please refer to the official Marts Digital website or contact your authorized dealer. Keep your purchase receipt as proof of purchase.

**Manufacturer:** Marts Digital

**Model:** MP-8000-1