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## Diamond Audio MICRO4V2

# Diamond Audio MICRO4V2 Amplifier User Manual

High-Power Monoblock Full Range Class D Digital Amplifier

## 1. INTRODUCTION

Thank you for choosing the Diamond Audio MICRO4V2 High-Power Monoblock Full Range Class D Digital Amplifier. This manual provides essential information for the proper installation, operation, and maintenance of your amplifier. Please read this manual thoroughly before attempting installation or operation to ensure optimal performance and safety.

## 2. SAFETY INFORMATION

Always observe the following safety precautions:

- Disconnect the vehicle's negative battery terminal before any installation or wiring.
- Ensure all wiring is properly insulated to prevent short circuits.
- Mount the amplifier securely to prevent movement in case of sudden stops or accidents.
- Avoid mounting the amplifier in areas exposed to direct sunlight, excessive heat, moisture, or dust.
- Use appropriate gauge power and ground wires as specified in the installation section.
- Install an external fuse/fuseholder within 18 inches of the car battery.
- If you are unsure about any part of the installation process, consult a professional car audio installer.

## 3. PACKAGE CONTENTS

Verify that all items are present in your package:

- Diamond Audio MICRO4V2 Amplifier
- Wiring Harnesses (RCA input, speaker output, power/ground/remote)
- Mounting Hardware (screws, Allen wrench)
- Owner's Manual



Image: Contents of the Diamond Audio MICRO4V2 amplifier package, including the amplifier unit, its box, the owner's manual, and various wiring harnesses and mounting accessories.

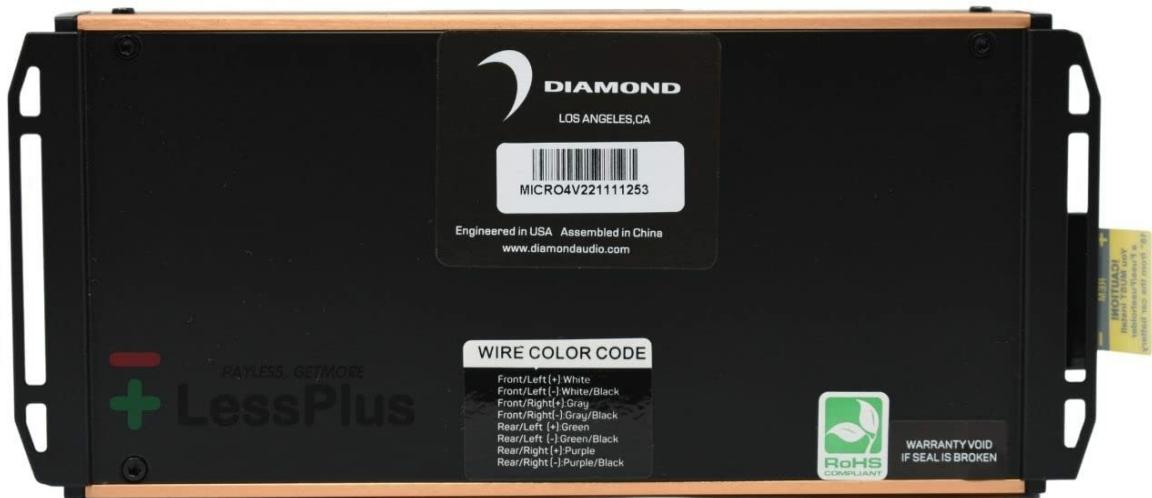


Image: A detailed view of the included wiring harnesses (RCA and speaker) and mounting hardware (screws and Allen wrench) that come with the amplifier.

## 4. PRODUCT OVERVIEW

The Diamond Audio MICRO4V2 is a compact yet powerful Class D digital amplifier designed for high-fidelity audio reproduction. Its small footprint makes it ideal for installations where space is limited, such as motorcycles, UTVs, and other vehicles.



Image: A top-down perspective of the Diamond Audio MICRO4V2 amplifier, showcasing its compact design and the Diamond Audio logo.



Image: An angled view of the Diamond Audio MICRO4V2 amplifier, highlighting its sleek, compact form factor.



Image: The rear panel of the amplifier, displaying the power input (+12V, Remote, Ground) and speaker output terminals (Front and Rear, with Bridged options).



Image: The front panel of the amplifier, featuring input connections, X-OVER (crossover) controls, SENS (gain) controls, and the power indicator.

## 5. SETUP AND INSTALLATION

Proper installation is critical for the performance and longevity of your amplifier. Follow these steps carefully:

### 5.1 Mounting Location

Choose a mounting location that is dry, well-ventilated, and protected from direct heat and moisture. Ensure there is sufficient space around the amplifier for air circulation. Avoid mounting on carpet or other materials that could impede airflow.



Image: The Diamond Audio MICRO4V2 amplifier shown installed within the fairing of a motorcycle, demonstrating its compact size and suitability for tight spaces.

## 5.2 Wiring Connections

Before making any connections, disconnect the vehicle's negative battery terminal.

- Power Connection (+12V):** Connect a suitable gauge power wire from the vehicle's positive battery terminal to the +12V input on the amplifier. An inline fuse/fuseholder must be installed within 18 inches of the battery.
- Ground Connection (GND):** Connect a suitable gauge ground wire from the GND input on the amplifier to a clean, unpainted metal surface on the vehicle's chassis. Ensure a good electrical connection.
- Remote Turn-On (REM):** Connect a remote turn-on wire from your head unit's remote output to the REM input on the amplifier. This wire turns the amplifier on and off with your head unit.
- Input Connection (RCA):** Connect RCA cables from your head unit's pre-amp outputs to the INPUT terminals on the amplifier. Ensure correct channel (Front/Rear, Left/Right) connections.
- Speaker Output:** Connect your speakers to the SPEAKER OUTPUT terminals. Pay close attention to polarity (+ and -). For bridged operation, refer to the diagram on the amplifier or in the full manual.

Your browser does not support the video tag.

Video: An official product video from Diamond Audio demonstrating the features and possibly installation aspects of the MICRO4V2 amplifier. This video is provided by the seller.

## 6. OPERATING INSTRUCTIONS

Once installed, adjust the amplifier settings for optimal sound performance.

### 6.1 Gain Adjustment (SENS)

The SENS (Sensitivity) control matches the amplifier's input level to the output level of your head unit. Start with the gain set to minimum. Play a familiar piece of music at about 75% of your head unit's maximum volume. Slowly increase the amplifier's gain until you hear distortion, then back it off slightly. This ensures maximum clean output.

### 6.2 Crossover Adjustment (X-OVER)

The MICRO4V2 features adjustable crossovers to optimize the frequency response for your speakers.

- **LP (Low Pass):** Used for subwoofers, allowing only frequencies below the set point to pass.
- **HP (High Pass):** Used for full-range speakers, allowing only frequencies above the set point to pass.
- **FLAT:** Bypasses the crossover, allowing full-range signal to pass.

Adjust the frequency (FREQ) knob to set the desired crossover point, typically between 80Hz and 120Hz for most car audio systems, depending on your speaker type.

## 7. MAINTENANCE

The Diamond Audio MICRO4V2 amplifier requires minimal maintenance. Keep the unit clean and free of dust. Periodically check all wiring connections to ensure they are secure and free from corrosion. Do not use harsh chemicals or abrasive cleaners on the amplifier's surface.

## 8. TROUBLESHOOTING

If you experience issues with your 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 remote turn-on signal	Check and replace fuse; Secure all power, ground, and remote connections; Verify remote signal from head unit.
No Sound Output	Loose RCA cables; Incorrect gain setting; Speaker wires disconnected or shorted; Amplifier in protection mode	Check RCA connections; Adjust gain; Inspect speaker wiring for shorts or disconnections; Turn off amplifier and check for overheating or impedance issues.
Distorted Sound	Gain set too high; Improper crossover settings; Speaker impedance mismatch; Damaged speakers	Reduce gain; Adjust crossover settings; Verify speaker impedance matches amplifier's capabilities; Test speakers individually.
Amplifier Overheating	Insufficient ventilation; Speaker impedance too low; Prolonged high volume use	Relocate amplifier for better airflow; Check speaker impedance; Reduce volume or allow amplifier to cool down.

If the problem persists after trying these solutions, contact Diamond Audio customer support or a qualified service technician.

## 9. SPECIFICATIONS

Key technical specifications for the Diamond Audio MICRO4V2 amplifier:

- **Model:** MICRO4V2
- **Type:** High-Power Monoblock Full Range Class D Digital Amplifier
- **Product Dimensions:** 15 x 11 x 7 inches; 2.87 Pounds
- **Voltage:** 12 Volts (DC)
- **Maximum Supply Voltage:** 16 Volts (DC)
- **Minimum Supply Voltage:** 10 Volts (DC)
- **Manufacturer:** Diamond Audio

## 10. WARRANTY AND SUPPORT

Diamond Audio products are designed and manufactured to the highest quality standards. For warranty information and support, please refer to the warranty card included with your product or visit the official Diamond Audio website. Keep your purchase receipt as proof of purchase for warranty claims.

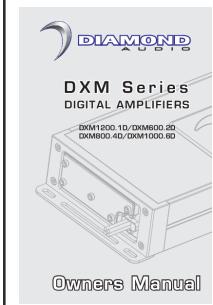
**Official Website:** [www.diamondaudio.com](http://www.diamondaudio.com)

**Brand Store:** [Diamond Audio Amazon Store](#)

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## Related Documents - MICRO4V2

	<a href="#"><u>Diamond Audio MICROV2 Series Amplifiers Owners Manual</u></a> Comprehensive owners manual for Diamond Audio MICROV2 Series Amplifiers, detailing features, specifications, installation, and setup procedures for models MICRO1V2, MICRO2V2, MICRO4V2, and MICRO5V2.
	<a href="#"><u>Diamond Audio DES Series Digital Amplifiers Owners Manual</u></a> Comprehensive owners manual for Diamond Audio DES Series digital multi-channel and monoblock amplifiers, covering specifications, installation, functions, and warranty. Features Continuous Current Circuitry for consistent power output across various impedances.
	<a href="#"><u>Diamond Audio HEX Series Amplifiers Owners Manual</u></a> Comprehensive owners manual for Diamond Audio HEX Series Multi-Channel Amplifiers (HX400.2, HX480.4, HX600.4, HX1200.5D), covering installation, setup, specifications, and warranty information.
	<a href="#"><u>Diamond Audio HXM Series Digital Amplifiers Owner's Manual and Installation Guide</u></a> Comprehensive guide for Diamond Audio HXM Series digital amplifiers, covering specifications, installation, system configurations, and setup instructions for models HXM800.2D, HXM800.4D, HXM800.1D, HXM1200.1D, and HXM1100.6D.



#### [Diamond Audio DXM Series Digital Amplifiers Owner's Manual & Installation Guide](#)

Comprehensive guide for Diamond Audio DXM Series digital amplifiers, including installation instructions, system configuration diagrams, features, specifications, and warranty information for models DXM1200.1D, DXM600.2D, DXM800.4D, and DXM1000.6D.



#### [Diamond Audio HXM Series Digital Amplifiers User Manual and Installation Guide](#)

Comprehensive user manual and installation guide for Diamond Audio HXM Series digital amplifiers, including HXM800.2D, HXM800.4D, HXM800.1D, HXM1200.1D, and HXM1100.6D. Features specifications, installation instructions, system configurations, and function descriptions.