

## DD Audio D4.800

# DD Audio D4.800 4-Channel 800W RMS Amplifier User Manual

Model: D4.800

## 1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your DD Audio D4.800 4-Channel 800W RMS Amplifier. Designed for high-performance audio systems, the D4.800 delivers powerful and clear sound in a compact form factor. Please read this manual thoroughly before installation and use to ensure optimal performance and safety.

## 2. PRODUCT FEATURES

The DD Audio D4.800 amplifier is engineered with advanced features to enhance your audio experience:

- **Compact Design:** Measuring 7 x 4 x 1.7 inches, this amplifier offers a high power-to-size ratio, making it suitable for installations where space is limited.
- **High Power Output:** Capable of producing 200 watts per channel, totaling 800 watts of continuous RMS power.
- **Bandpass Crossovers:** Allows for precise frequency filtering, optimizing sound delivery to various speakers.
- **Clipping Indicators:** Visual indicators to help prevent signal distortion and protect your speakers.
- **Input Mode Selection:** Versatile input options for different system configurations.
- **Auto Turn-On:** Simplifies integration with factory or aftermarket head units.
- **Secure Connections:** Features set screw power and speaker connections for reliable power and signal transfer.
- **Differential RCA Inputs:** Reduces noise and interference for cleaner audio signals.
- **Discrete Outputs:** Ensures stable and efficient power delivery.
- **Conformal Coated Components:** Internal components are protected, making the amplifier suitable for challenging environments like motorcycles, boats, and powersport applications.



Figure 2.1: Front view of the DD Audio D4.800 amplifier, showcasing its sleek, black heat sink design and the DD Audio logo.

# Size Comparison



Figure 2.2: Size comparison of the DD Audio D4.800 amplifier next to a standard beverage can, highlighting its compact dimensions.

## 3. SETUP AND INSTALLATION

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

### 3.1. Mounting Location

Choose a mounting location that is:

- Secure and stable, away from moving parts.
- Well-ventilated to allow for proper heat dissipation. Avoid enclosed spaces.
- Protected from moisture and direct sunlight.
- Accessible for wiring and adjustments.

### 3.2. Wiring Connections

Before making any connections, disconnect the vehicle's negative battery terminal to prevent electrical shorts.



Figure 3.1: Rear view of the DD Audio D4.800 amplifier, showing the various input, output, and control terminals.

### 1. Power Connection:

- Connect a 4-gauge power wire from the vehicle's positive battery terminal to the +12V terminal on the amplifier. Ensure an inline fuse (not included) is installed within 18 inches of the battery.
- Connect a 4-gauge ground wire from the GND terminal on the amplifier to a clean, unpainted metal surface on the vehicle's chassis. The ground point should be as short as possible.
- Connect a remote turn-on wire from your head unit's remote output to the REM terminal on the amplifier.

### 2. RCA Input Connections:

- Connect RCA cables from your head unit's pre-amp outputs to the RCA Input terminals (CH1/CH2, CH3/CH4) on the amplifier.
- Adjust the RCA Input Voltage Sensitivity (GAIN) controls to match the output voltage of your head unit. Start with the gain at minimum and slowly increase until the clipping indicator just begins to flash at maximum head unit volume.

### 3. Speaker Connections:

- Connect your speakers to the SPEAKER OUTPUT terminals. The D4.800 supports 4-channel operation at 2 or 4 ohms, or 2-channel bridged operation at 4 ohms.
- Use 12-gauge speaker wire for optimal performance.
- Ensure correct polarity (+ to + and - to -) for all speaker connections.

### 3.3. Crossover and Input Mode Settings

The D4.800 features adjustable Bandpass, Low-Pass, and Sub-Sonic filters, along with an Input Mode switch.

- **Input Mode:** Select between 2CH or 4CH input mode depending on your head unit's output configuration.
- **Sub-Sonic Filter (HPF):** Adjusts the high-pass filter frequency (30 - 5k Hz) to remove unwanted low frequencies from your speakers.
- **Low-Pass Filter (LPF):** Adjusts the low-pass filter frequency (50 - 5k Hz) to allow only frequencies below the set point to pass through, typically used for subwoofers or mid-bass speakers.
- **Bandpass Crossover:** By combining the HPF and LPF, you can create a bandpass filter, allowing only a specific range of frequencies to pass.

## 4. OPERATING THE AMPLIFIER

Once properly installed, the D4.800 amplifier will power on automatically when it receives a remote turn-on signal from your head unit. The clipping indicators will illuminate if the input signal is too high or if the amplifier is being overdriven, indicating potential distortion.

### 4.1. Gain Adjustment

The gain control (SENS) is not a volume knob. It matches the amplifier's input sensitivity to the output voltage of your head unit. Incorrect gain settings can lead to distortion and potential damage to your speakers or amplifier.

1. Turn the amplifier gain controls to their minimum (counter-clockwise) position.
2. Set your head unit's volume to about 75-80% of its maximum.
3. Play a dynamic piece of music.
4. Slowly increase the amplifier's gain control until the clipping indicator just begins to flash. Then, back off slightly until the indicator remains off.

### 4.2. Crossover Tuning

Adjust the HPF and LPF settings based on the frequency response of your speakers and your desired sound profile. Refer to your speaker manufacturer's recommendations for optimal crossover points.

## 5. MAINTENANCE

The DD Audio D4.800 amplifier requires minimal maintenance. Follow these guidelines to ensure its longevity:

- Keep the amplifier clean and free of dust and debris. Use a soft, dry cloth for cleaning.
- Ensure adequate ventilation around the amplifier to prevent overheating. Do not block cooling fins.
- Periodically check all wiring connections for tightness and corrosion. Loose connections can cause performance issues or damage.
- Avoid exposing the amplifier to extreme temperatures or moisture.

## 6. TROUBLESHOOTING

If you experience issues with your D4.800 amplifier, consult the following table before contacting technical support:

Problem	Possible Cause	Solution
Amplifier does not turn on.	No power, ground, or remote signal; blown fuse.	Check all power, ground, and remote wire connections. Verify inline fuse is intact. Test remote wire for 12V.
No sound output.	RCA cables disconnected, speaker wires disconnected, gain too low, head unit issue.	Check RCA and speaker connections. Increase gain slowly. Verify head unit is functioning correctly.
Distorted sound.	Gain set too high, improper crossover settings, poor ground connection, speaker impedance mismatch.	Reduce gain. Adjust crossover settings. Ensure solid ground connection. Verify speaker impedance is within amplifier's specifications.
Amplifier goes into protect mode.	Overheating, short circuit in speaker wiring, low voltage.	Ensure adequate ventilation. Check speaker wires for shorts. Verify stable power supply (9-16V). Allow amplifier to cool down.

## 7. SPECIFICATIONS

Detailed technical specifications for the DD Audio D4.800 amplifier:

- **Operating Voltage:** 9 - 16 Volts (DC)
- **Test Voltage:** 14.4 Volts
- **Output Channel(s):** 4
- **Continuous Wattage @ 4ohm:** 4 x 125 Watts / 2 x 400 Watts (Bridged)
- **Continuous Wattage @ 2ohm:** 4 x 200 Watts
- **Max Current Draw (Amps):** 80 Amps
- **RCA Input Voltage Sensitivity:** 0.2 - 8 Volts
- **RCA Input S/N:** > 90dB
- **Damping Factor:** > 100
- **THD:** < 0.2%
- **Frequency Response (Hz):** 30 - 30k Hz
- **Sub-Sonic Filter (HPF):** 30 - 5k Hz
- **Low-Pass Filter (LPF):** 50 - 5k Hz
- **Pass Thru Output:** No
- **Power Wire Gauge:** 4 Gauge
- **Speaker Wire Gauge:** 12 Gauge
- **Dimensions (Inches):** 7 x 4 x 1.7 inches
- **Dimensions (MM):** 180 x 104 x 43 mm
- **Product Weight:** Approximately 3 Pounds
- **Country of Origin:** USA



Figure 7.1: Angled view of the DD Audio D4.800 amplifier, showing its compact form factor and robust construction.

## 8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official DD Audio website or contact your authorized dealer. Keep your purchase receipt as proof of purchase for warranty claims.

**DD Audio Contact Information:** Please visit [ddaudio.com](http://ddaudio.com) for the most up-to-date support resources and contact details.

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	<p><a href="#">Sound Town NIX-D4800 Professional 4-Channel Power Amplifier User Manual</a></p> <p>User manual for the Sound Town NIX-D4800 Professional 4-Channel Power Amplifier, including safety instructions, front and rear panel descriptions, and technical specifications.</p>
	<p><a href="#">Taramps DS 800X4 4-Channel Car Amplifier Instruction Manual</a></p> <p>This manual provides detailed instructions for the Taramps DS 800X4 4-channel car audio amplifier, covering installation, features, technical specifications, warranty, and safety guidelines. Learn how to properly connect and operate your amplifier for optimal performance.</p>
	<p><a href="#">Rockville KRYPTON F5 5-Channel Car Amplifier Owner's Manual</a></p> <p>Comprehensive owner's manual for the Rockville KRYPTON F5 3200W Peak / 800W RMS 5-Channel Car Amplifier, detailing installation, operation, and features including a volt meter.</p>
	<p><a href="#">Rockville Home Matrix 4: 4-Zone 8-Channel 600W RMS Multiroom Receiver/Amplifier Owner's Manual</a></p> <p>Comprehensive owner's manual for the Rockville Home Matrix 4, an 8-channel, 4-zone multiroom/multisource receiver/amplifier. Learn about its features, setup, playback options, and troubleshooting.</p>
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