

Crown NCDI6000

Crown CDi 6000 Power Amplifier User Manual

Model: NCDI6000

1. INTRODUCTION

The Crown CDi Series amplifiers are professional tools designed and built for installed sound applications. The CDi 6000 is a two-channel power amplifier offering 2100 watts per channel at 4 ohms, and is also capable of 70V and 140V outputs. This amplifier is rugged, lightweight, and provides exceptional value for its class.

This manual provides essential information for the proper setup, operation, and maintenance of your CDi 6000 amplifier. Please read it thoroughly before use.

2. WHAT'S IN THE BOX

Upon unpacking your Crown CDi 6000 amplifier, please ensure all components are present:

- CDi 6000 Power Amplifier Unit
- AC Power Cord
- User Manual (this document)

If any items are missing or damaged, please contact your authorized Crown dealer immediately.

3. KEY FEATURES

- **Versatile Output:** Rated for 2-, 4-, 8-ohm loads, and supports 70V and 140V outputs for various speaker configurations.
- **Universal Power Supply:** Features a switch-mode universal power supply for efficient operation.
- **Intuitive LCD Screen:** Front-panel LCD screen allows for quick and easy configuration and monitoring.
- **Onboard DSP:** Integrated digital signal processing includes crossovers, EQ filters, delay, and output limiting for precise audio control.
- **User-Defined Presets:** Up to 20 user-defined DSP presets can be stored and recalled.

4. SETUP GUIDE

4.1. Unpacking and Placement

Carefully remove the amplifier from its packaging. Place the amplifier in a well-ventilated area, ensuring adequate

airflow around the unit. Avoid placing it near heat sources or in direct sunlight. The CDi 6000 is designed for rack mounting; ensure proper rack ventilation if installed in an equipment rack.

4.2. Power Connection

Connect the supplied AC power cord to the amplifier's power inlet and then to a grounded AC power outlet. Ensure the power source matches the amplifier's voltage requirements (140 Volts).

4.3. Input Connections

Connect your audio source (e.g., mixer, preamplifier) to the amplifier's input connectors. The CDi 6000 typically uses balanced XLR or Phoenix-style connectors for audio inputs. Refer to the rear panel diagram for specific input locations.

4.4. Output Connections

Connect your loudspeakers to the amplifier's output terminals. The CDi 6000 supports various speaker configurations (2Ω, 4Ω, 8Ω, 70V, 140V). Ensure correct polarity and impedance matching for optimal performance and to prevent damage to the amplifier or speakers. Use appropriate gauge speaker wire for your setup.

5. OPERATING INSTRUCTIONS

5.1. Powering On/Off

To power on the amplifier, press the power button located on the front panel. The LCD screen will illuminate, and the amplifier will initialize. To power off, press and hold the power button until the unit shuts down.

5.2. Front Panel Controls

The front panel features an LCD screen and navigation buttons for accessing and adjusting DSP settings, input/output configurations, and monitoring amplifier status. Gain controls for each channel are also present.

5.3. DSP Configuration

Utilize the front panel LCD and navigation buttons to access the onboard DSP. Here you can configure crossovers, apply EQ filters, set delay times, and adjust output limiting. Refer to the detailed DSP section in the full user guide ([link below](#)) for advanced settings.

5.4. Monitoring Indicators

The front panel includes indicators for signal presence, clip, and thermal status. Monitor these indicators during operation to ensure the amplifier is performing within safe limits. A flashing clip indicator suggests input signal is too high, while a thermal indicator suggests overheating.

6. MAINTENANCE

To ensure the longevity and optimal performance of your Crown CDi 6000 amplifier, follow these maintenance guidelines:

- **Cleaning:** Regularly clean the exterior of the amplifier with a soft, dry cloth. Do not use liquid cleaners or

solvents.

- **Ventilation:** Ensure that the ventilation grilles are free from dust and obstructions. Periodically clean the grilles with a soft brush or vacuum cleaner.
- **Connections:** Periodically check all input and output connections to ensure they are secure and free from corrosion.
- **Environmental Conditions:** Operate the amplifier within recommended temperature and humidity ranges. Avoid extreme conditions.

No user-serviceable parts are inside. Refer all servicing to qualified service personnel.

7. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your CDi 6000 amplifier. For more complex problems, consult the full user manual or contact Crown support.

Problem	Possible Cause	Solution
No Power	Power cord disconnected; Power outlet faulty; Amplifier fuse blown.	Check power cord connection; Test power outlet; Contact service for fuse replacement.
No Sound Output	Input cables disconnected; Speaker cables disconnected; Amplifier in standby/mute; Incorrect DSP settings.	Check all cable connections; Verify amplifier is not muted; Review DSP settings.
Distorted Sound	Input signal too high (clipping); Incorrect impedance match; Damaged speaker.	Reduce input level; Verify speaker impedance; Test with different speaker.
Overheating (Thermal LED on)	Insufficient ventilation; Blocked vents; Excessive load.	Ensure proper airflow; Clean vents; Reduce load or operating time.

8. SPECIFICATIONS

Feature	Detail
Model Number	NCDI6000
Brand	Crown
Number of Channels	2
Output Power	2100 Watts @ 4Ω (per channel)
Voltage	140 Volts (Maximum Supply Voltage)
Item Dimensions (L x W x H)	19 x 16.2 x 3.5 inches
Item Weight	24 pounds
Mounting Type	Surface Mount (typically rack-mountable)

Feature	Detail
First Available Date	December 7, 2011

9. WARRANTY AND SUPPORT

9.1. Manufacturer's Limited Product Warranty

The Manufacturer's Limited Product Warranty for Crown Audio products applies only when the purchase is made from Crown Audio Authorized North American Dealers. For complete details regarding warranty terms, conditions, and registration, please refer to the official Crown Audio website or contact an authorized dealer.

9.2. Additional Support

For further assistance, technical support, or service inquiries, please visit the official Crown website or contact their customer service department. You can also refer to the comprehensive [User Manual \(PDF\)](#) for detailed information.

10. PRODUCT VIEWS



Figure 10.1: Front view of the Crown CDi 6000 Power Amplifier, showing the LCD display, control knobs, and power indicator.



Figure 10.2: Rear view of the Crown CDi 6000 Power Amplifier, highlighting the power input, speaker outputs, and audio input terminals.



Figure 10.3: A stack of Crown CDi Series Amplifiers, including the CDi 1000, CDi 2000, CDi 4000, and CDi 6000, demonstrating their uniform design.

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