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> Numark CDN88 PRO Dual CD Player Instruction Manual

Numark CDN88

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Model: CDN88

1. INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of the Numark CDN88 PRO Dual CD Player. The CDN88 PRO is designed for professional DJ use, offering advanced features for audio manipulation and playback from compact discs.

Key functionalities include real-time scratching, pitch control up to +/-100%, Key Lock, dual seamless loops, and an integrated Beatkeeper™ system for beat synchronization.

2. IMPORTANT SAFETY INFORMATION

- **Power Source:** Connect the unit only to the specified power supply voltage. Ensure the power cord is not damaged or pinched.
- **Moisture:** Do not expose this unit to rain or moisture. Avoid placing liquid-filled objects on the unit.
- **Ventilation:** Ensure proper ventilation. Do not block ventilation openings. Install the unit according to the manufacturer's instructions.
- **Heat:** Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- **Cleaning:** Clean only with a dry cloth.
- **Servicing:** Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

3. PACKAGE CONTENTS

Verify that the following items are included in your package:

- Numark CDN88 PRO Dual CD Player (Controller and Drive Unit)
- Power Cord
- User Manual (this document)

If any items are missing, contact your dealer immediately.

4. SETUP

4.1 Unpacking and Placement

Carefully remove all components from the packaging. The CDN88 PRO consists of two main units: the control unit and the drive unit. Both units are designed for standard 19-inch rack mounting.



Figure 4.1: Front view of the Numark CDN88 PRO Dual CD Player, showing the control unit positioned above the drive unit.

Place the units in a stable, well-ventilated area, preferably within a standard equipment rack. Ensure sufficient space around the units for airflow.

4.2 Power Connection

1. Connect the supplied power cord to the power input on the rear of the drive unit.
2. Plug the other end of the power cord into a suitable AC power outlet.
3. Ensure the power switch on the drive unit is in the OFF position before connecting.

4.3 Audio Connections

The CDN88 PRO features two independent audio outputs (for Deck A and Deck B) to connect to a DJ mixer or sound system.

1. Locate the RCA audio output jacks on the rear of the drive unit for Deck A and Deck B.
2. Connect standard RCA cables from these outputs to available line-level inputs on your DJ mixer. Ensure Deck A output is connected to one mixer channel and Deck B output to another.

3. If using the digital output, connect a coaxial S/PDIF cable from the digital output jack to a compatible digital input on your mixer or audio interface.



Figure 4.2: Angled view of the Numark CDN88 PRO, illustrating the rack-mountable design and overall layout.

5. OPERATING INSTRUCTIONS

5.1 Basic Playback

1. **Power On:** Press the POWER button on the drive unit. The display on the control unit will illuminate.
2. **Load CD:** Press the OPEN/CLOSE button for the desired deck (A or B) on the drive unit. Insert a CD into the tray, label side up, and press OPEN/CLOSE again to close the tray. The unit will read the disc.
3. **Play/Pause:** Press the **PLAY/PAUSE** button to start playback. Press it again to pause.
4. **Cue:** While paused, press the **CUE** button to return to the last set cue point. If no cue point is set, it will return to the beginning of the track.
5. **Track Selection:** Use the **TRACK SKIP** buttons (<< / >>) to navigate between tracks.

5.2 Pitch Control and Key Lock

The CDN88 PRO offers extensive control over playback speed and musical key.

- **Pitch Slider:** Adjust the vertical pitch slider to change the playback speed (BPM) of the track. The display will show the current pitch percentage.
- **Pitch Range:** Use the **PITCH RANGE** buttons to select different pitch adjustment ranges: +/-6%, +/-12%, +/-25%, and +/-100%. The +/-100% range allows for extreme speed changes, including stopping the audio at -100%.
- **Key Lock (Master Tempo):** Press the **KEY LOCK** button to activate this feature. When active, changing the pitch will alter the tempo without affecting the musical key of the track. Press again to deactivate.

5.3 Real-time Scratching and DSP Effects

The large jog wheels provide a tactile interface for scratching and track manipulation.

- **Scratching:** While a track is playing, place your hand on the top surface of the jog wheel and move it back and forth to simulate vinyl scratching. The unit provides a realistic vinyl sound and feel.
- **Scratch Reverse:** This is one of the interactive DSP effects. Consult the effects section on the control panel to activate and adjust.
- **Reverse Play:** Press the **REVERSE** button to play the track backward. Press again to resume forward playback.



Figure 5.1: Close-up view of the Numark CDN88 PRO control unit, highlighting the jog wheels, pitch sliders, and various control buttons.

5.4 Looping and Stutter Starts

Create seamless loops and instant stutter effects.

- **Seamless Loops:** During playback, press **LOOP IN** to set the loop start point. Press **LOOP OUT** to set the loop end point and activate the loop. Press **RELOOP** to re-engage the last stored loop.
- **Hot Stutter Starts:** The CDN88 PRO features 3 hot stutter start points. These allow for instant, short, repeating playback from a set cue point, ideal for creative effects.

5.5 Beatkeeper™ and Interlock™

The integrated Beatkeeper™ system assists with beat matching and synchronization.

- **Beatkeeper™:** This feature automatically detects and displays the BPM (Beats Per Minute) of the playing track.
- **Interlock™:** When activated, Interlock™ can automatically synchronize the BPM of both decks, aligning cue points and facilitating seamless transitions. Refer to the display and dedicated buttons for Interlock™ activation and adjustment.

6. ADVANCED FEATURES

- **Real-time Scratching:** Experience authentic vinyl-like scratching with responsive jog wheels and true vinyl sound emulation.
- **Built-in Beatkeeper™ with Auto-mixing and Synchronization:** Automatically detects BPM and offers functions to synchronize tracks between decks for smooth mixing.
- **Interactive DSP Effects:** Includes effects such as scratch reverse to enhance creative performance.
- **±100% KEY LOCK with Key Control:** Maintain the original musical key of a track even when significantly altering its tempo.
- **Dual Seamless Loops with 3 Hot Stutter Starts:** Create and re-engage perfect loops instantly, and trigger short, repeating audio segments for dynamic effects.
- **200% Pitch Range:** Offers pitch adjustment from +/-6%, +/-12%, +/-25%, and +/-100% for precise or extreme tempo manipulation. At -100%, the audio can be brought to a complete stop.
- **True Buffered Instant Start:** Ensures immediate audio playback upon pressing the PLAY button.
- **Numark Anti-shock™ Technology:** Provides a 48-second buffer memory to prevent audio skips due to vibrations or impacts, ensuring uninterrupted playback.

7. MAINTENANCE

7.1 Cleaning

- **Exterior:** Use a soft, dry cloth to wipe the exterior surfaces of the unit. Do not use abrasive cleaners, waxes, or solvents.
- **CD Tray:** Keep the CD tray free of dust and debris. Avoid touching the lens inside the CD mechanism. If cleaning is necessary, use a specialized CD lens cleaner disc.

7.2 Storage

When not in use for extended periods, store the CDN88 PRO in a cool, dry place, away from direct sunlight and extreme temperatures. If rack-mounted, ensure the rack is covered to prevent dust accumulation.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power	Power cord not connected; Power switch off; Faulty outlet	Ensure power cord is securely connected; Turn power switch ON; Test outlet with another device

Problem	Possible Cause	Solution
No sound output	RCA cables not connected; Mixer input not selected; Mixer volume down; Faulty cables	Check RCA connections to mixer; Select correct input channel on mixer; Increase mixer channel/master volume; Replace cables if necessary
CD not reading or skipping	Dirty or scratched CD; CD inserted incorrectly; Unit needs cleaning; Excessive vibration	Clean or replace CD; Ensure CD is inserted label side up; Use a CD lens cleaner; Ensure unit is on a stable surface or rack-mounted securely (Anti-shock™ should mitigate minor vibrations)
Jog wheel unresponsive	Mode not set for scratching; Internal error	Ensure the unit is in a mode that supports jog wheel manipulation (e.g., scratch mode); Power cycle the unit. If problem persists, contact support.

9. SPECIFICATIONS

Brand:	Numark
Model Name:	CDN88 PRO
Model Number:	CDN880
Color:	Black
Connectivity Technology:	Auxiliary
Special Feature:	Shockproof (Anti-shock™)
Number Of Discs:	1 (per drive unit, dual player)
Supported Audio	
Format:	MP3
Connector Type:	RCA, 3.5mm Jack
Number of Channels:	2
Media Format	
Type:	Digital
Compatible Devices:	Speaker, Headphone
MP3 Player:	Yes
Item Weight:	14 Pounds
Manufacturer:	Numark
UPC:	676762207119

10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the warranty card included with your product or visit the official Numark website. Do not attempt to service the unit yourself, as this may void your warranty.

For further assistance, contact Numark customer support through their official channels.

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