

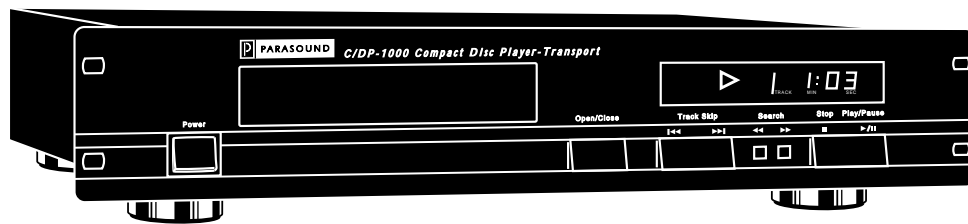


## PARASOUND

### *C/DP-1000 Compact Disc Player/Transport*

Thank you for your purchase of this Parasound component. It is among the finest compact disc players available. Its advanced 4th-generation digital technology and sophisticated analog circuits bring music to life. Its hybrid 1 bit/18 bit D-A converter, 8x oversampling, independent power supply regulation and premium parts assure natural reproduction at any listening level. Its digital output options offer the ultimate flexibility for CD transport operation with an external D-A converter in the future, so your C/DP-1000 will never be out of date.

The C/DP-1000 has numerous convenience features which may not be obvious unless you take the time to learn about them. Please take a few moments now to read these instructions completely before you proceed. Whenever you are in doubt, refer to this instruction manual.



File this owner's manual in a safe place so you don't misplace it. Save the carton and packing inserts in case you ever have to ship or move your C/DP-1000. Find the serial number which is printed on the unit's rear panel and note it here for future reference or in case of casualty loss or theft:

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### **Placement**

Your C/DP-1000 should be placed on a level and sturdy surface, out of direct sunlight. It should be in a well-ventilated area, away from heating ducts or radiators. The area must be free of dust or excessive humidity.

The location should be stable and isolated from speakers or foot steps to minimize vibrations which could interfere with the sensitive optical laser and thereby require the error correction circuits to engage for other than defects in the CDs themselves. Your unit will simply sound better.

The unit should not be placed near any component which generates a strong magnetic field, such as a power amplifier. Do not place directly on top of an amplifier which may generate excessive heat.

It is also wise not to place any CD player nearby your tuner or TV since digital circuitry uses very high frequency signals which could cause interference with clear broadcast reception, or conversely the tuner's radiations from its local oscillator will pollute the clarity of CD reproduction.

If you have any doubts about a correct location for your C/DP-1000, call your Parasound dealer for further advice.

## **A Note on Moisture Condensation and Dew**

If your C/DP-1000 is brought directly from a cold location to a warm room or if it is placed in a very damp room, moisture may condense on the laser lens within the unit. If this occurs, the player will not operate. Remove the disc and leave the player in a warm, dry place for about an hour so the moisture can evaporate.

## **Connecting Your C/DP-1000**

Before making any connections, turn off the power on your power amplifier. This will avoid an accidental "blast" of sound which could damage your speakers.

Use the cables supplied between the Analog Line Out jacks on your C/DP-1000 and any high level input jacks on your preamplifier, amplifier or receiver marked CD, AUX or TAPE PLAY. Connect the Right and Left channels according to their markings on both units.

You may connect the player directly to a power amplifier which has input gain controls, however you may require the additional gain of a preamplifier to reach adequate listening levels.

You may prefer to try one of the premium audio cables which are available from your Parasound Dealer. The benefits of these are debated among audio hobbyists, and we cannot guarantee you will find a significant audible improvement.

Make certain that all your connections are secure and that there is no tension on the cables which could cause them to pull loose in the future.

Plug the AC cord into any convenient outlet or the unswitched outlet on the rear panel of your preamplifier or receiver. Try to run the AC cord in a perpendicular direction to the audio cables to minimize hum.

Before you start to operate the system with your C/DP-1000 installed, turn down the volume on your amplifier to a low setting. Read the remainder of these instructions.

## **External Remote Control Connector**

Your C/DP-1000 accepts the input of any popular infrared repeater system to facilitate remote control operation from another room or to preserve remote control operation if your player is installed within a cabinet whose doors block signals from your remote control handset. This connector is a popular 3.5 mm mini jack and its center conductor is +, the outer is -. For further details contact your Parasound Dealer or Custom Installer.

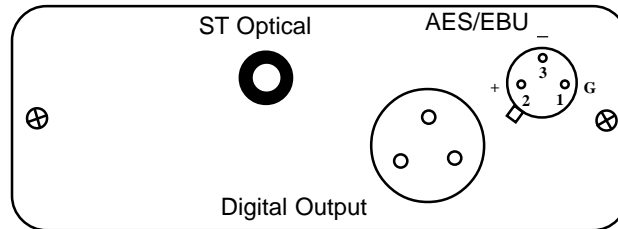
## **Digital Connections**

Your C/DP-1000 is equipped with an RCA jack for 75  $\Omega$  coaxial connection to an external D-A converter. You must use a digital cable which will minimize data reflections within the cable. You cannot achieve satisfactory results with a conventional audio patch cord.

## **Advanced Digital Adapter Module (ADAM)**

An optional Advanced Digital Adapter Module (ADAM) is available from your Parasound dealer. The ADAM features the AT&T glass fiber ST module and the AES/EBU standard using a 3 pin XLR connector. Either of these will provide superior sound if your D-A converter is equipped to accept them. The advantage of the AT&T glass fiber optic connection is that it electrically isolates your player from the rest of the system, with a potential for a lower noise floor. The AES/EBU output offers a balanced output with a separate ground. It is very easy to install the ADAM yourself. Insure that the C/DP-1000 is unplugged before attempting to install the ADAM. Remove the two screws at either side of the cover plate near the left side of the rear panel on your C/DP-1000.

The ADAM is attached to a plate which replaces the one you just removed. There is a small 4 pin connector socket on the top of the main printed circuit board of your C/DP-1000, just inside the exposed opening of the rear panel. Attach the connector on the wire coming from the ADAM to this connector; there is only one direction you can fit the plug onto the socket. Make sure it is firmly connected, but if there is resistance, don't force it! Try the other direction first so you don't break the connector. Secure the ADAM with the two screws. Your C/DP-1000 is now a highly sophisticated CD Transport.



*ADAM-Advanced Digital Adapter Module*

## Operating Your C/DP-1000

### Power Switch

Use this to turn the unit on and off. This control is not duplicated on the remote control handset since you will have to load a disc on the player before using it anyway.

### Open/Close

Press once to open the disc carousel; press again to close. Never interfere with the carousel opening or closing or try to force it with your hand. Make sure the carousel is closed before you turn off the power.

### Play/Pause

Press Play to listen to the disc. Press a second time to pause precisely at any location. Press Play once again to resume. During Play or Pause the laser is operating. You can also use the Play button while the disc loading tray is open and it will automatically close the tray and commence normal play.

### Track Skip

These buttons skip tracks each time they are pressed. If you are in the middle of a track, pressing this button once will return play to the beginning of that track.

### Disc Skip

These buttons skip tracks each time they are pressed. If you are in the middle of a track, pressing this button once will return play to the beginning of that track.

### Search

This is a fast review or fast forward cue to assist you in finding a specific segment within a given track.

### Stop

This disengages the laser operation and stops the disc. Once you've pressed Stop, if you press Play again the player will have to spin the disc again for a few seconds before Play can resume.

## Remote Control Handset

The Remote Control Handset duplicates all front panel functions except power on/off. It also contains several additional functions. The remote uses 2 AA batteries; be sure to observe correct polarity.

### Repeat

If you press this button, the disc will play over and over until you press the STOP or REPEAT button again.

### Display

Press this button once to change from normal mode to time remaining on disc, press twice for time elapsed on disc, press three times to return to the normal mode.



Normal mode



First Press: Time remaining on disc



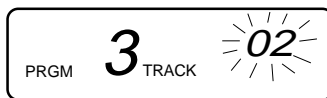
Second Press: Time elapsed on disc.

### Program

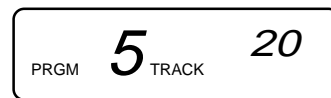
Programming allows you to select specific tracks or rearrange the entire play sequence. Programming must be performed in the STOP mode. To store tracks on a disk, select the track number with the number or SKIP buttons on the remote handset. Next, press the PROGRAM button to store the selected track. The display will indicate 01 for the first programmed track. The display will then flash 02 until you select the next track and press PROGRAM. Repeat this procedure for each of the tracks you want to store. A maximum of 20 tracks may be programmed. Once the PLAY/PAUSE button is pressed, the tracks will play in programmed order.



Select track number directly or with the SKIP button. Press PROGRAM to store



Press SKIP or track number for next track to program. Press PROGRAM again to store



When programming is finished, press PLAY to start programmed play.

### Checking, Changing, and Clearing Program

Each time you press the PROGRAM button, the track number and its program position will appear in the display. You can add tracks to the program by pressing PROGRAM for the track you want to add. Tracks can be cleared individually by pressing the CLEAR button for the track you want to delete.

### Other Display Functions

When you first play your C/DP-1000, its display panel will show you if the unit has recognized a playable undamaged CD in its disc compartment. You will hear the machine spin for a moment while it studies the data coded onto the disc. If there is no disc present, the display will indicate four zeros. Once there is a disc loaded, the system will scan the information on the disc, from beginning to end, and will briefly show you how many tracks and the total playing time contained on that disc.

After displaying the track and playing time information, the unit will stop at track 1 and wait for you to press the PLAY button. At the end of the disc, the display will read 0:00 after the unit has stopped.

## Caution

Be patient while loading the disc. Never try to load the disc before the holder has opened fully. Never try to close the drawer before you are certain the disc is properly seated in the recess of the holder. If the machine tries to withdraw the holder with the disc only partially in place, it may ruin the disc. A disc that is warped may interfere with drawer operation. Do not try to play a warped disc.

## Maintaining Your C/DP-1000

Your C/DP-1000 is made to provide years of faithful service. You should keep it dusted, but never use any abrasives, solvents or treated rags which could harm the surface. The acrylic window over the function display is quite easy to scratch.

- Try to avoid smoking nearby the player. The residue could easily get into the delicate optical parts.
- The same precautions apply to the remote controller.
- Since dust and dirt can cause problems, never turn off the C/DP-1000 with the disc drawer open.

## Taking Care of Your Compact Discs

Be careful to handle discs only at their edges. For cleaning there are several CD cleaners available at your Parasound dealer. Just remember to wipe gently from inside to out, never in a circular fashion as you would an ordinary LP record. Never leave any discs lying around outside of their proper holders.

## In Case of Difficulty

If you believe your unit is malfunctioning, please refer again to these instructions. It is quite easy to confuse some of the programming functions until you become accustomed to them.

- Disc holder won't close when disc has been inserted:
  - discs are not placed properly in the holder
  - disc is warped
- Disc is inserted, but display does not show number of tracks and playing time:
  - disc was inserted upside down
  - disc is dirty - clean it carefully
  - disc is scratched or defective - try another disc
  - there is condensation on the laser lens - allow to warm up and dry
- Sound skips or mistracks often:
  - player is exposed to excessive vibration - find better location
- Program function will not operate:
  - programming was erased - reprogram the memory
- Hum:
  - a cable connection is loose - press cable plugs in tightly
  - a cable could be defective - try another cable
- One channel not operative:
  - check cable connections
  - try another source at your preamp to confirm problem is with your CD player
- Remote control does not work:
  - batteries in remote control are weak
  - there is an obstruction between the remote control and player
  - you are at too great an angle to player for remote signal to reach it
  - there is no disc loaded in the player
  - player is exposed to bright light which interferes with the remote signal

If you still have difficulty after trying the above, call your Parasound Dealer for further advice. If he cannot help you, call Parasound Technical Service during normal West Coast business hours at (415) 397-7100. We may be able to suggest some other diagnostic procedures.

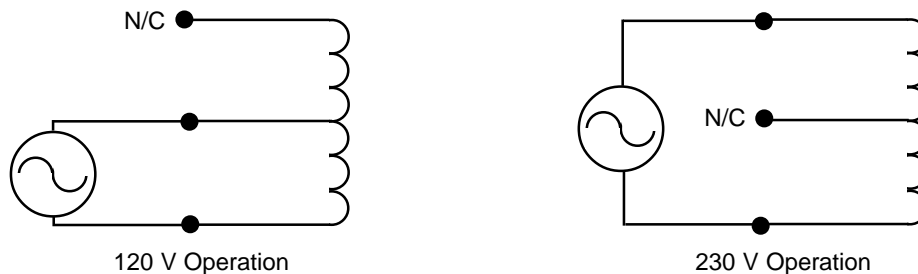
If we determine that the player must be returned for factory service, we will give you specific instructions, including a specific Return Authorization number. Pack your unit carefully in both its original carton and its styrofoam protection and also an outer overcarton for adequate safety.

You must mark the Return Authorization number on the outer carton only; units that arrive without evidence of adequate packing or without an outer carton or Return Authorization number will be refused.

### Rewiring For 220 V - 240 V Operation

Your C/DP-1000 may be rewired for operation abroad. This involves moving a jumper wire on the primary side of the power transformer. *Please refer this voltage conversion to a qualified electronics technician to avoid possible injury or damage to the C/DP-1000.*

With the C/DP wired for 120 V operation, there is a small 1/4" jumper wire labeled J003. To convert the C/DP-1000 to 230 V operation, move the jumper so the neutral of the AC is connected to the outer winding of the transformer instead of the center pin.



### Special Features

- Hybrid 1 Bit/18 Bit Ladder DAC, 8X Oversampling
- Incorporates Burr-Brown PCM-67P DAC
- High-Resolution Analog Circuitry
- Mechanically Damped Chassis
- Rugged Transport Mechanism
- Fully Programmable
- Fully Remote Controlled
- Built-In Coaxial Digital Output
- Upgradeable to ST optical and AES/EBU Digital Output
- Gold-Plated Tiffany Style RCA Jacks
- External Remote Control Connector

## C/DP-1000 Specifications

### Frequency Response

3 Hz-20 kHz,  $\pm 0.2$  dB

### Signal to Noise Ratio

> 110 dB, IHF A

### Dynamic Range

> 100 dB

### Channel Separation

> 115 dB, 1 kHz

### Low Level Linearity

$\pm 1.5$  dB down to -90 dB

### Analog Line Output Level

2 V,  $\pm 0.1$  V Suitable load  $\geq 10$  k  $\Omega$

### Coaxial Digital Output

75  $\Omega$  RCA, 0.5 V peak-to-peak

### Total Harmonic Distortion

< 0.002%

### Wow and Flutter

Unmeasurable; crystal accuracy

### Interchannel Phase Shift

<  $0.6^\circ$  at 20 kHz

### Disc Defect Tracking

up to 2000  $\mu$ M

### Converter Type

1 bit - 18 bit linear hybrid, hand-trimmed

### Sampling Rate

352.8 kHz, 8 x 44.1 kHz

### Error Correction Method

CIRC double error correction

### Dimensions

19" wide x 3 1/2" high x 10" deep

### Power Requirements

120 V - 120 V AC 15 watts, may rewire to 220 V - 240 V

## ADAM Specifications

### ST Module Fiber Optic

AT&T Standard, 820 nm typical wavelength

### AES/EBU Output

110  $\Omega$  XLR, 5 V peak-to-peak,

*Features and specifications subject to change without notice.*

## Parasound Limited Warranty (USA only)

Your Parasound C/DP-1000 is covered by a limited warranty against defects in materials and workmanship for a period of two years from date of purchase. This warranty is provided by the Parasound dealer where the unit was purchased. Warranty repair will be performed only when your purchase receipt is presented to validate your ownership, date of purchase and authorized status of the selling dealer. Defective parts will be repaired or replaced without charge by your authorized dealer's store or the location designated by your dealer that is authorized to service Parasound equipment. Additional information is available by calling or writing to the Service Manager, Parasound Products, Inc. at the address below. Charges for unauthorized service and transportation costs are not reimbursable under this warranty.

This warranty becomes void if the product has been damaged by alteration, misuse, accident or neglect. Alteration includes any removal, obscuration or defacement of its serial number. This warranty becomes void if unit has been connected or operated contrary to printed instructions. The warrantor assumes no liability for property damage or any other incidental or consequential damage whatsoever which may result from the failure of this product. Any and all warranties of merchantability and fitness implied by law are limited to the duration of this expressed warranty.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary state by state.



PARASOUND

*affordable audio for the critical listener*

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