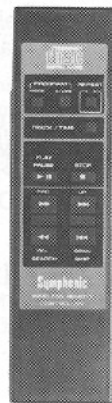


Symphonic



Owner's Manual

MODEL CD2000

Compact Disc Player

WARNING
TO PREVENT FIRE OR SHOCK HAZARD.
DO NOT EXPOSE THIS APPLIANCE TO
RAIN OR MOISTURE.

LASER SAFETY

This unit employs a laser. Only a qualified service person should remove the cover or attempt to service this device, due to possible eye injury.

“CAUTION– USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURE OTHER THAN SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.”

DANGER: INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCK FAILED OR DEFEATED. AVOID DIRECT EXPOSURE TO BEAM.



CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION:

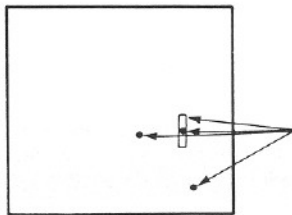
TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK)
NO USER-SERVICEABLE PARTS INSIDE
REFER SERVICING TO QUALIFIED SERVICE PERSON-
NEL



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user of the presence of uninsulated “dangerous voltage” within the product’s enclosure; that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



FRONT

ATTENTION:

Before operating the unit, remove the 3 (three) transit screws and the transit bracket.

SAFETY INSTRUCTIONS

READ BEFORE OPERATING EQUIPMENT

This product was designed and manufactured to meet strict quality and safety standards. There are, however, some installation and operation precautions which you should be particularly aware of.

1. Read Instructions – All the safety and operating instructions should be read before the appliance is operated.
2. Retain Instruction – The safety and operation instructions should be retained for future reference.
3. Heed Warnings – All warnings on the appliance and in the operating instructions should be adhered to.
4. Follow Instructions – All operating and use instructions should be followed.
5. Water and Moisture – The appliance should not be used near water for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.
6. Carts and Stands – The appliance should be used only with a cart or stand that is recommended by the manufacturer.
7. Wall or Ceiling Mounting – The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
8. Ventilation – The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or, placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
9. Heat – The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
10. Power Sources – The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
11. Power-Cord Protection – Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where the exit from the appliance.
12. Cleaning – The appliance should be cleaned only as recommended by the manufacturer.
13. Power Lines – An outdoor antenna should be located away from power lines.
14. Nonuse Periods – The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
15. Object and Liquid Entry – Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
16. Damage Requiring Service – The appliance should be serviced by qualified service personnel when:
 - A. The power-supply cord or the plug has been damaged; or
 - B. Objects have fallen, or liquid has spilled into the appliance; or
 - C. The appliance has been exposed to rain; or
 - D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
 - E. The appliance has been dropped, or the enclosure damaged.
17. Servicing – The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

Congratulations on your most recent purchase of a Symphonic Compact Disc Player. Symphonic has manufactured this unit to meet the high standards of performance as well as the selection and use of only high quality materials and parts. To receive the best results from this unit, please take a few minutes to read this booklet which contains many helpful hints for operating your new Compact Disc Player.

A WORD OF CAUTION

Although this product has been ruggedly designed, it is a delicate piece of electronic equipment and should be treated accordingly. Do not expose this product to extremes of heat or cold for long periods of time. Protect it against excess moisture and dust as much as possible and do not subject it to excessive shock.

Important: Your unit is identified by a special number. When writing for information or service, include the FULL model number including series code.

QUICK REFERENCE INDEX

The drawing on page 6 provides a reference number for each of the front panel features. These numbers reference a descriptive paragraph about the features located in the **FRONT PANEL FEATURES** section.

Before proceeding with connecting your new Compact Disc Player, take a few moments to acquaint yourself with some of the features and terminology you will encounter in this book.

FEATURES

The compact disc system is an epoch-making audio system which makes the best of state-of-the-art digital techniques.

VARIETY OF FUNCTIONS

Each audio disc contains various information other than music (e.g. selection numbers) and the CD2000 reads this information to provide many useful functions.

* **Random access programming**

Any number of selections (up to 15) can be automatically played in the desired order using the random access programming function.

* **All play**

Of course, all selections can be played in the recorded order.

* **Music Search**

Pressing the **SKIP (UP)** button during play automatically skips the current selection and pressing the **SKIP (DOWN)** button during play automatically skips back one selection.

* **Repeat**

Either all or selected selections can be played repeatedly.

* **Ease-to read display**

The display shows program and operation status and elapse playing time for each selection.

CAUTION:

- * Do not operate the unit immediately after it has been moved from a cold place to a warm place. Condensation on the lens could cause the unit to malfunction. In such case wait at least 30 minutes before use.

NOTE: Because compact discs feature higher Signal-to-Noise ratio and wider dynamic range than conventional disc records, noise cannot be heard before starting the first selection. Be careful not to increase the volume control too high.

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and televisions reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of F C C Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient the receiving antenna

Relocate the computer with respect to the receiver

Move the computer away from the receiver

Plug the computer into a different outlet so that computer and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful:

"How to Identify and Resolve Radio-TV Interference Problems".

This booklet is available from the U.S. Government Printing Office, Washington, D C 20402, Stock No. 004-000-00345-4.

PURCHASER'S RECORD

MODEL NO. _____

(Located on Rear of Unit)

SERIAL NO. _____

(Located on Rear of Unit)

Cost _____

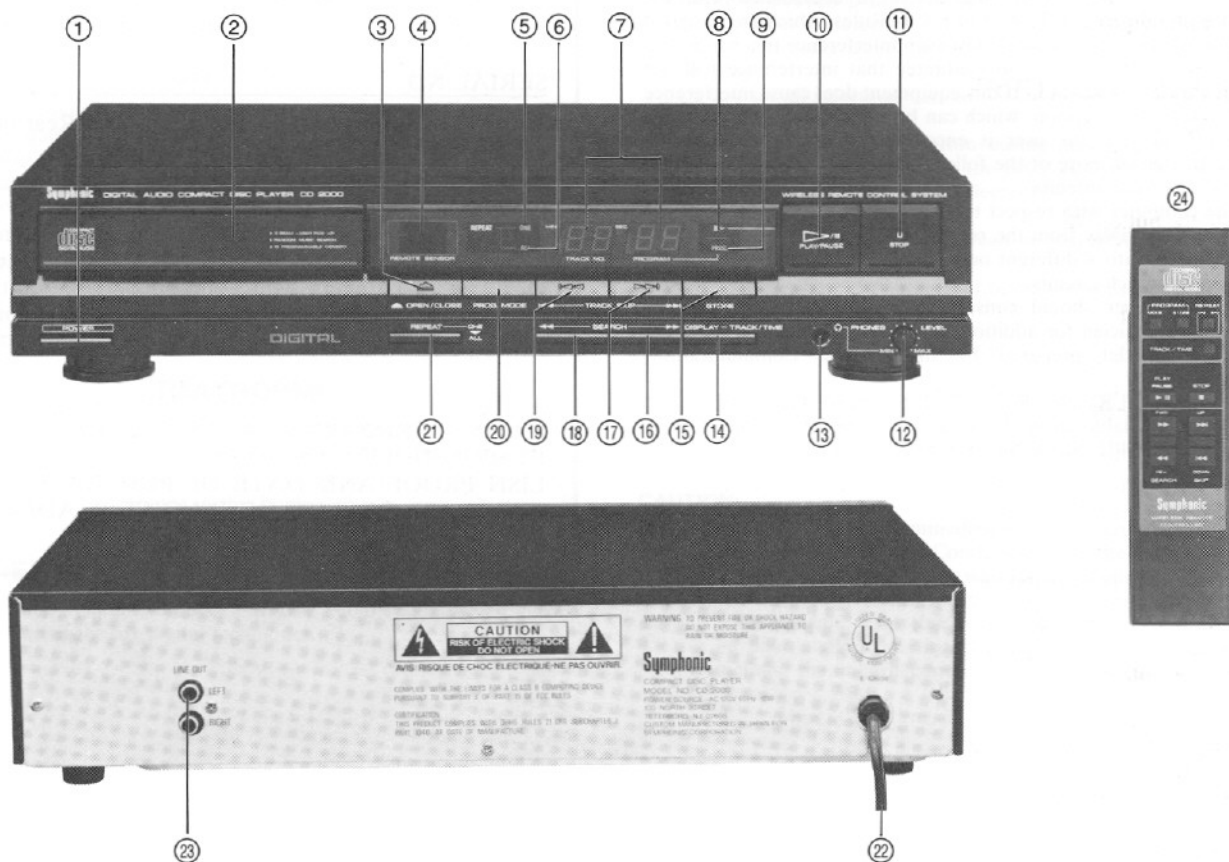
Date _____

This information becomes your permanent record of a valuable purchase. It should be filled in promptly then kept in a safe place along with your purchase receipt to be referred to as necessary for insurance purposes or when corresponding with Symphonic.

IMPORTANT

WHEN SEEKING WARRANTY SERVICES, IT IS THE RESPONSIBILITY OF THE CONSUMER TO ESTABLISH PROOF AND DATE OF PURCHASE. (YOUR PURCHASE RECEIPT OR INVOICE IS ADEQUATE FOR SUCH PROOF.)

FRONT AND REAR PANEL FEATURES



All connections to the rear panel should be made with the all system power turned off.

To avoid confusion, connect one cable at a time between the different components of your system.

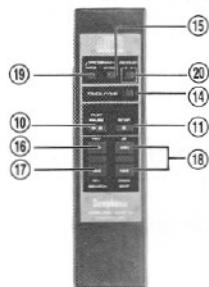
This is the safest way to avoid cross-connecting channels or confusing signal inputs with outputs.

FRONT PANEL FEATURES

- ① **POWER button**
Pressing button to turn power on. Pressing it again to turn power off.
- ② **DISC TRAY**
Place disc on tray.
- ③ **OPEN/CLOSE button ▲**
Press button to open disc tray.
Press again to close.
Note: This disc tray can be closed by gently pushing the disc tray.
- ④ **REMOTE SENSOR**
Receiving signals from the remote control unit.
- ⑤ **ONE REPEAT indicator**
Will light when the one repeat function is on.
- ⑥ **ALL REPEAT indicator**
Will light when the all repeat function is on.
- ⑦ **TIME/TRACK NUMBER DISPLAY**
As soon as disc is installed and the tray closed, the display shows the elapsed time, by pressing the display selector button to elapse time mode.
- ⑧ **PLAY indicator**
Will light when the play function is on and will blink when the pause function is on.
- ⑨ **PROGRAM PLAY indicator**
Will light when the program mode is on.
- ⑩ **PLAY/PAUSE button**
Press to start play.
Press during the play mode to suspend play.
Press during the pause mode to start play again.
- ⑪ **STOP button**
This button is used to stop playing.

- ⑫ **HEADPHONE VOLUME LEVEL CONTROL**
Use for headphone output level control.
Caution: Prevent to an impediment in hearing sense, set headphone volume control in minimum position, and adjust the sound level.
- ⑬ **HEADPHONE JACK**
Use for private listening with stereo headphones.
- ⑭ **DISPLAY SELECTOR button**
Will select the desired display mode, **TRACKING NO.** or **TIME (Minute/Second).**
- ⑮ **MEMORY STORE button**
Press to store the selection chosen by the **SKIP (UP/DOWN)** buttons in computer memory.
- ⑯ **SEARCH (UP) button ►►**
Skips up programs in 5 track increments during the stop mode.
Pressing and holding button during play will activate the fast forward mode.
- ⑰ **TRACK SKIP button ►►| (UP)**
Allows fast forwarding track by track to desired selections of disc.
- ⑱ **SEARCH (DOWN) button ◀◀**
Skips down programs in 5 track increments during the stop mode.
Pressing and holding button during play will activate the backward mode.
- ⑲ **TRACK SKIP button |◀◀ (DOWN)**
Allows fast rewinding track by track to desired selections of disc.
- ⑳ **PROGRAM MODE**
Press to prepare for programming operation.
- ㉑ **REPEAT button**
Press to select repeat mode; REPEAT/ONE, REPEAT/ALL or OFF.
- ㉒ **LINE OUT CORD**
Plug into the CD or AUX. jacks of your amplifier.
Note: Please make sure right and left output jacks are in correct connection. Red plug for right, white plug for left.
- ㉓ **AC POWER CORD**
Connect to the AC outlet of your amplifier or AC outlet.
- ㉔ **REMOTE CONTROL UNIT**

REMOTE CONTROL OPERATION



Circled number shows same as direct key in operation.

- ⑩ PLAY/PAUSE button
- ⑪ STOP button
- ⑭ TIME/TRACK DISPLAY SELECTOR button
- ⑮ MEMORY STORE button
- ⑯ FWD button
- ⑰ REV. button
- ⑱ MUSIC SEARCH buttons
- ⑲ MEMORY CANCEL button
- ⑳ REPEAT button

Caution: Operative range of this remote control is 15 feet.
Remote control unit should be toward direct to the sensor when in use.



Fig. 1

BATTERY INSTALLATION

- 1) Push the battery compartment cover (In the direction of arrow). (See above pic or Fig. 1)
- 2) Install two AA size Alkaline batteries.
- 3) Replace the battery compartment cover.

Warning: Improper battery installation may damage the remote control unit.

Never leave dead or weak batteries in this unit. Even leak-proof batteries can leak damaging chemicals.
Use only alkaline battery size "AA" (R6) × 2.

INSTALLATION

Connect your CD2000 LINE OUTPUT to CD or AUX input jack of your Component System or Stereo System. (See Fig. 2)

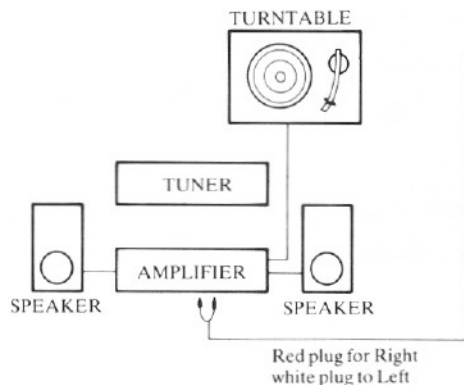


Fig. 2

OPERATING PROCEDURES

NORMAL PLAY

- 1) Turn on the **POWER**.
- 2) Press the **OPEN/CLOSE** button to open disc tray.
Place disc on the tray with the label side up.
Note: If the display shows a number other than "—", this indicates that a disc is already loaded into the player. Leaving a disc in the player when not in use is not recommended.
- 3) Close the disc tray.
- 4) Disc automatically starts and microcomputer reads information on disc. The disc then stops.
- 5) The track number indicator displays the number of selections recorded on the disc.
- 6) Pressing the **PLAY/PAUSE** button will begin the first selection automatically. Play mode indicator will turn on.
The track number indicator will display "1".
- 7) Press the display selector for elapsed time.
Press again to return track number mode.
- 8) Press **PLAY/PAUSE** button for pause mode.
The play indicator will start blinking.
- 9) The disc automatically stops after all numbers have been played.
Display will show "Ed" or "Ed:".
- 10) Press the **STOP** button, the display will show the music number 1, then stop.

RANDOM ACCESS MEMORY PLAY

- 1) Turn on the **POWER**.
- 2) Press **OPEN/CLOSE** button to open the disc tray.
Place a disc on the tray with the label side up and close the disc tray.
- 3) Follow the memory steps as described below.
Step 1 Press **PROGRAM** button to prepare for storing, as shown in Fig. 3.
The **PROGRAM PLAY** indicator will light.

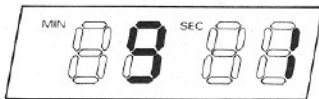


Fig. 3

- Step 2** Select the number of desired selection by pressing the **TRACK SKIP** ►► (UP) or ◄◄ (DOWN) buttons.
The selected number is displayed in track number section of the **TIME/TRACK NUMBER** display.

- Step 3** Press the **MEMORY STORE** button.

The first selection is now programmed into memory, as shown in Fig. 4.
4. Select the next selection by repeating same procedure as the above step 2 and 3.

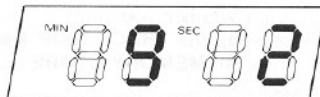


Fig. 4

- 4) Continue entering selection numbers until all the desired selections are programmed for playback (up to total 15).

Note: During programming selection numbers can be entered in any order (Such as 5, 3, 8, 2) and playback will also be in the order the selections were entered. (5, 3, 8, 2)

- 5) Press the **PLAY/PAUSE** button and the selection are automatically played in the selected order.

CHECK OR CHANGING PROGRAMS

- 1) Set the player in the **STOP** mode.
- 2) Press the **MEMORY STORE** button to check the selected number of program. The **TIME/TRACK NUMBER** display will show track number and program number.
- 3) Continue to press the **MEMORY STORE** button till the program number does not increase.
- 4) When changing the program, press the **MEMORY STORE** button so the display shows the program number you want to change. When the display shows the program number you want to change, select the new track number by pressing the **TRACK SKIP** **▶▶| (UP)** or **◀◀ (DOWN)** buttons and press the **MEMORY STORE** button.

ERASING THE PROGRAM

The entire program is erased when the **OPEN/CLOSE** button is pressed.

ONE REPEAT PLAY

- 1) Turn on **POWER** and press the **OPEN/CLOSE** button, place a disc on the tray, close the tray.
- 2) Press the **REPEAT** button until the **ONE REPEAT** indicator lights.
- 3) Select the desired track number by using the **TRACK SKIP** **▶▶| (UP)** or **◀◀ (DOWN)** buttons.
- 4) Press the **PLAY/PAUSE** button. The selection will repeat continuously until the **STOP** button is pressed.

ALL REPEAT PLAY

- 1) Press the **REPEAT** button until the **ALL REPEAT** indicator lights.
- 2) Press the **PLAY** button. The disc will be played through to the end of the last music number, at which time the player will return to the beginning of the first music number and continue playback until the **STOP** button is pressed.

IN CASE OF DIFFICULTY

If you experience any difficulty, check the following before contacting your dealer or the nearest Symphonic service station.

DISC DOSE NOT ROTATE

1. Make sure that the power cord is properly connected.
2. Confirm that the POWER switch is on.
3. Confirm that the drawer is in place.
4. Confirm that the disc has been loaded with the label side up.

DISC ROTATES BUT NO SOUND IS HEARD

1. Check connections between the disc player, amplifier and speakers.
2. Confirm that the amplifier POWER switch is ON.
3. Check the volume control setting of the amplifier.
4. Confirm that the source selector of the amplifier is set to CD or to the position to which the your unit is connected.

SOUND IS INTERRUPTED INTERMITTENTLY

1. Check for dirt on the disc.
2. Check the dirt for large scratches.
3. Check the disc for warp.

MAINTENANCE

CLEANING

NEVER use scouring pads, steel wool, scouring powders, or harsh chemical agents, such as lye solution. These will mar the finish. Clean with a soft, lint-free cloth or cotton swab slightly dampened with a mild solution of detergent and water.

REPAIRS

Only the most competent and qualified technicians should be allowed to service your Compact Disc Player. The Symphonic Corporation and its factory trained technicians have the knowledge and special equipment needed for repair and calibration of this precision instrument.

When delivering the product for service, you should take a copy of your purchase receipt and a full description of the problems you have encountered.

SPECIFICATIONS

1. AUDIO

- | | |
|-------------------------------|--------------------------------------|
| 1) Number of channel: | Stereo (2) |
| 2) Frequency response: | 20 - 20,000Hz \pm 0.7dB |
| 3) Signal-to-Noise ratio: | 94dB (JIS-A) |
| 4) Harmonic distortion: | 0.008% (at 1kHz) (30kHz L.P. Filter) |
| 5) Total Harmonic Distortion: | 0.01% (at 1kHz) (Flat) |
| 6) Channel separation: | 82dB (at 1kHz) (With B.P. Filter) |
| 7) Output voltage: | 1.8V (at 1kHz) |
| 8) Wow and Flutter: | Less than Unmeasurable Litmit |

2. SYSTEM

- | | |
|--------------------------------------|---|
| 1) Pick up: | 3 beam laser pick up, Wave length 790nm |
| 2) Error correction: | CIRC Double error correction |
| 3) D/A converter: | High speed 16 bit linear |
| 4) Filter: | Analog 5-pole filter |
| 5) Disc loading: | Drawer type, horizontal loading |
| 6) Random memory: | Random program memory max. 15 |
| 7) Sampling frequency: | 44.1kHz |
| 8) Infrared Wireless Remote Control: | 10-push (PLAY/PAUSE, STOP, FWD, REV., UP, DOWN, REPEAT, PROGRAM MODE, PROGRAM STORE, DISPLAY) |

3. TERMINALS

- | | |
|----------------------|------------------------------------|
| 1) Output: | 2P RCA jack (Stereo) |
| 2) AC input: | SPT-1 cord (black) with 2 pin plug |
| 3) Headphone output: | 6.3mm jack, Rotary level volume |

4. MECHANICAL

- | | |
|-------------------------|---|
| 1) Unit size (W×H×D): | 17 3/16"×3 1/8"×12 1/4"
(420×80×300mm) |
| 2) Net weight: | 8.58 lbs. (3.9 kg) |
| 3) Carton size (W×H×D): | 21 3/8"×7 11/18"×16 5/18" |
| 4) Gross weight: | 10.56 lbs. (4.8 kg) |

5. GENERAL

- | | |
|-----------------------|--------------|
| 1) Power requirement: | AC 120V 60Hz |
| 2) Power consumption: | 12W |

* The above specifications are based on the nominal value.

Design and specifications are subject to possible modification without notice for performance improvement.

WARRANTY: Refer to warranty card connecting warranty.

SYMPHONIC SERVICE PROCEDURE

IN THE CONTINENTAL UNITED STATES . . .

Should your unit require service, CALL



for the nearest Symphonic Authorized Service Station.

Please present your bill of sale to the Authorized Service Station when applying for warranty service. If service is not available in your local area, you are to contact Symphonic Service Centers listed below for further information, or carefully pack the product (preferably in the original carton) and ship the product prepaid and insured to A Symphonic Service Center.

SYMPHONIC CORP.

Western Office

1825 SOUTH ACACIA AVE.
Compton, California 90220

Eastern Office

100 NORTH STREET
TETERBORO, NEW JERSEY 07608

Printed in Japan

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