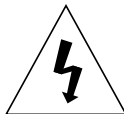


# **marantz®**

**Model CC3000/CC4000/CC4000 OSE User Guide**

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5 Disc CD Changer



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to 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 to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

## WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

## CAUTION:

TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

## ATTENTION:

POUR ÉVITER LES CHOCS ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

## 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 THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

**NOTE :**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful 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

**This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.**

measures:


- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**NOTE :** Changes or modifications may cause this unit to fail to comply with Part 15 of the FCC Rules and may void the user's authority to operate the equipment.

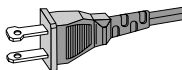
**Cet appareil numérique de la Classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.**

<b>English</b> .....	<b>4</b>
<b>Français</b> .....	<b>19</b>

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 Instructions** - The safety and operating 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 or swimming pool, or in a wet basement.
- 6. Carts and Stands** - The appliance should be used only with a cart or stand that is recommended by the manufacturer.
- 6A.**  An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
- 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. Grounding or Polarization** - Precautions should be taken so that the grounding or polarization means of an appliance is not defeated.

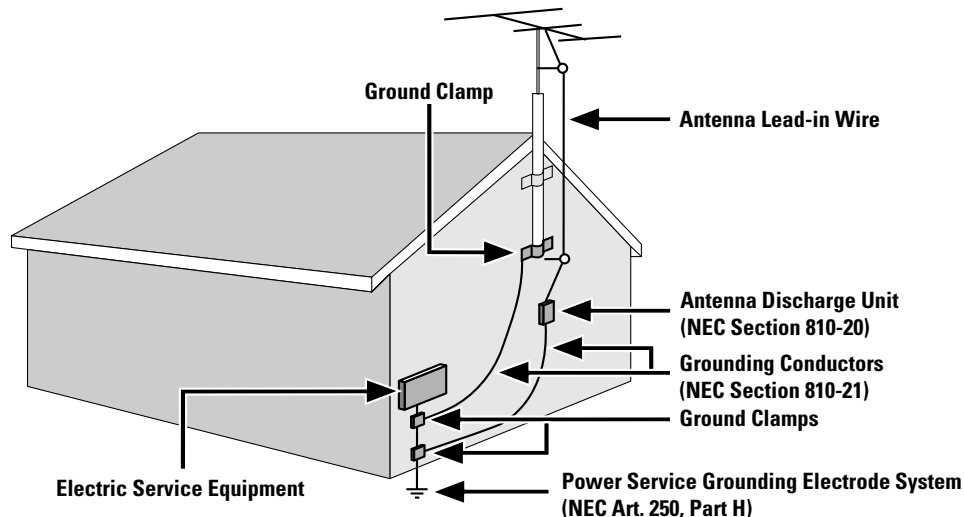
**Caution:** To prevent electric shock, match the wide blade of this plug to the wide slot and fully insert. Do not use this (polarized) plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.



- 12. 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 and plugs, convenience receptacles, and the point where they exit from the appliance.
- 13. Cleaning** - The appliance should be cleaned only as recommended by the manufacturer.
- 14. Power Lines** - An outdoor antenna should be located away from power lines.
- 15. Outdoor Antenna Grounding** - If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Section 810 of the National Electrical Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding connectors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See figure below.
- 16. Non-use Periods** - The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
- 17. Object and Liquid Entry** - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
- 18. 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.
- 19. 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.

**Note to the Cable TV system installer**

This reminder is provided to call the Cable TV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

**Example of Antenna Grounding as per NEC - National Electrical Code**

**Introduction** .....6

**Installation** .....6 - 7

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**Programming** .....15

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## Thank you for selecting the Marantz CC 3000 & CC4000 & CC4000 OSE Compact Disc Changer.

A Compact Disc Changer of the state-of-the-art Marantz the CC 3000, CC4000 & CC4000 OSE combines supreme playback quality with a high degree of user-friendliness by offering the following possibilities:

- **able to play CD-RW disc;**
- changing CDs during play;
- quick access to a particular CD by means of QUICK PLAY;
- storing 40 tracks from different CDs in any desired order in the changer memory;
- storing the required recording time and playing time in the EDIT mode.

## Power Supply Setting

- Check that the type plate on the rear of your changer indicates the correct supply voltage.
- If your mains supply voltage is different, consult your dealer or our Service Organisation.

## Siting the Compact Disc Changer

### Free standing

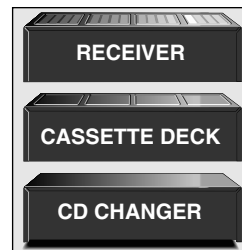
- Always position the changer horizontally on a flat, firm surface.
- Allow a free space of at least 3 cm above the changer so as not to interfere with the cooling of the changer.

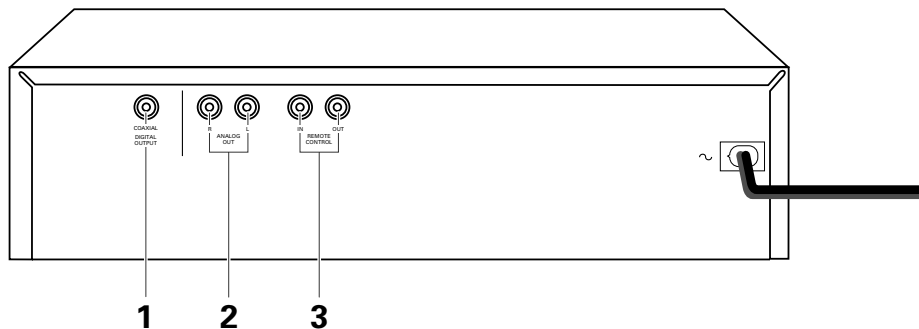
### In an audio rack

- The changer can be sited in any desired position.

### Stacked

- Site the changer preferably at the bottom or at the top.
- Never position the changer directly on top of a high-power amplifier, as such an amplifier gives off a substantial amount of heat.





## Connections

### 1 Digital Out

This output supplies digital signal and can therefore only be connected to an input which is suitable for this signal. Use here a lead with one cinch plug on either end.

**Never connect this socket to a non-digital input of an amplifier, such as AUX, CD, TAPE, PHONO etc!**

### 2 Analog Out

For the connecting cable to the amplifier.

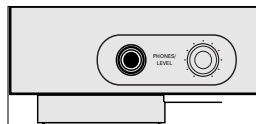
- Insert a red plug into the 'R' socket and the other plug into the 'L' socket.
- Insert the two other plugs into the corresponding sockets of the CD or AUX input of your amplifier. You can also use the TUNER or TAPE IN connection, but never the PHONO input!

### 3 Remote Control

For connecting up the equipment when you are incorporating the changer in a HiFi system with its own remote control system.

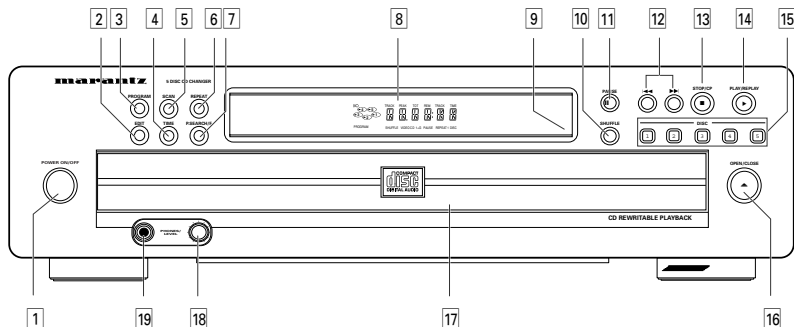
## Connecting Headphones (for CC4000 & CC4000SE only)

- Connect headphones with a 6.3 mm jack plug to the PHONES socket.
- The sound level is adjusted with the LEVEL control.



*Note:*

- The volume control on the remote control must not be at the minimum level.



**1 POWER-ON/ OFF**

Switching on and off.

**2 EDIT**

Activating the EDIT function when making a recording.

**3 PROGRAM**

Opening the memory when compiling a program.

**4 TIME**

Selecting the information you want to see on the display.

**5 SCAN**

Automatically playing the beginning of each track.

**6 REPEAT**

Repeating play.

**7 FADER**

Fading in and out during play.

**PEAK SEARCH**

Searching the loudest passage (peak) on a CD or in a program when making a tape recording.

**8 DISPLAY**

Informs you about the functioning of the player.

**9 I(nfra) R(ed) SENSOR**

Receives the signals from the remote control.

**10 SHUFFLE**

Playing in random order.

**11 PAUSE II**

Interrupting play.

**12**

◀▶▶▶

– Selecting another track during play.

– Selecting a track to start play with.

– Selecting tracks when compiling a program.

– Fast search to a particular passage during play.

– Selecting the recording mode during edit.

– Selecting the recording time during edit.

**13 STOP ■**

– Stopping play.

– Cancel a Program, Peak Search or Edit.

**14 PLAY ▶**

– Starting play.

– Returning to the beginning of a track.

**15 CD DIRECT PLAY**

- Selecting another CD during play.
- Selecting a CD to start play with.
- Selecting CDs when compiling a Program, Peak Search or Edit.

**16 OPEN/CLOSE**

Opening and closing the CD compartment.

**17 CD CAROUSEL TRAY**

**18 LEVEL (for CC4000 & CC4000 OSE only)**

Adjusting the volume when listening with headphones.

**19 PHONES (for CC4000 & CC4000 OSE only)**

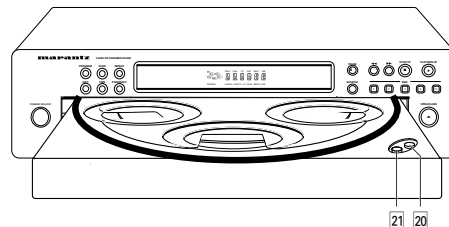
Connecting headphones.

**20 QUICK PLAY**

Immediate playing of a particular CD.

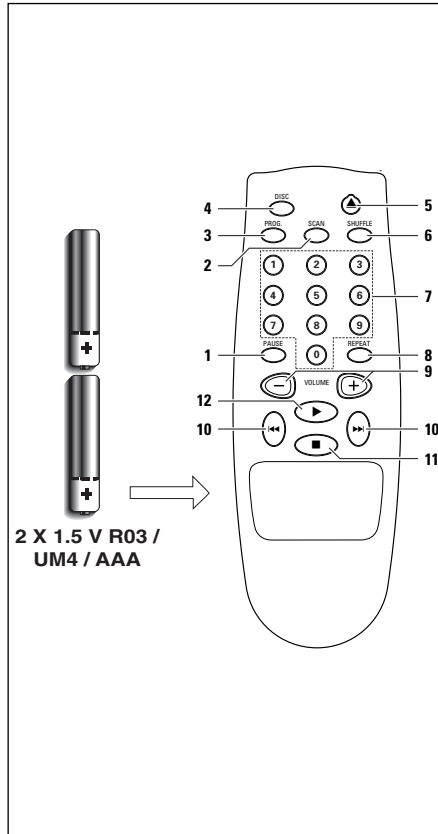
**21 LOAD**

Rotating the turntable in the CD compartment when inserting CDs.





## Remote Control



2 X 1.5 V R03 /  
UM4 / AAA

### 1 PAUSE

Interrupting play.

### 2 SCAN

Automatically playing the beginning of each track.

### 3 PROG.

Opening the memory when compiling a program.

### 4 DISC

- Selecting another CD during play.
- Selecting a CD to start play with.
- Selecting CDs when compiling a Program, Peak Search or Edit.

### 5 TRAY OPEN

Opening and closing the CD compartment.

### 6 SHUFFLE

Playing in random order.

### 7 0-9 DIGIT KEYS

- Selecting another track.
- Selecting a track to start play with.
- Selecting tracks when compiling a program.

### 8 REPEAT

Repeating play.

### 9 - VOLUME +

Adjusting the sound level when the changer is connected via the ANALOG or DIGITAL OUT output to an amplifier or HiFi system without its own remote control. Also for adjusting the sound level on the headphones.

### 10 PREV. / NEXT

- Selecting another track during play.
- Selecting a track to start play with.
- Selecting tracks when compiling a program.
- Fast search to a particular passage during play.
- Selecting the recording mode during edit.
- Selecting the recording time during edit.

### 11 STOP

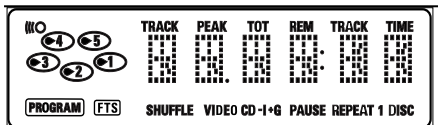
- Stopping play.
- Cancel a Program, Peak Search or Edit.

### 12 PLAY

- Starting play.
- Returning to the beginning of a track.

The life of the batteries of the remote control is around one year. For replacement only use batteries of the type R03, UM4 or AAA.

## Display



- (((O) – Lights up when the changer receives a command from the remote control.

### 1 - 5 CD number indicator

- Lights up when you switch the changer on.
- Indicates the number of CDs in the CD compartment.
- Indicates what CD is being played (CD number flashes).

### PROGRAM

- Flashes when a program is being compiled.
- Lights up when a program is being played.

### TRACK – Indicates:

- what track is being played;
- the number of tracks on a CD or in a program.

### PEAK

- Flashes when the loudest passage (peak) on a CD or in a program is being searched.
- Lights up when the loudest passage (peak) has been found.

### TRACK TIME

- Indicates the elapsed playing time of the track being played.

### REM(aining) TRACK TIME

- Indicates the remaining playing time of the track being played.

### TOT(al) REM(aining) TIME

- Indicates the remaining playing time of a CD.

### TOT(al) TIME

- Indicates the total playing time of a CD.

### SHUFFLE

- Lights up when the tracks are played in random order.

### PAUSE

- Lights up when play is interrupted.

### REPEAT 1

- Lights up when you repeat a track.

### REPEAT DISC

- Lights up when you repeat a CD.

### REPEAT

- Lights up when you repeat all CDs or a program from them.

### Display messages:

**READ** – Lights up when a CD's contents list is being scanned.

**NO CD** – Lights up when there are no CDs in the CD compartment.

**WRONG TRACK:** – Lights up when you select a non-existent track number.

**SELECT CD** – Lights up when you try to activate a function for which you must first select a CD number.

**INSERT CD** – Lights up when you give a play command while the CD compartment is empty.

**CD EJECT STOP** – Lights up if you try to activate a function for which you must first stop play.

**NORMAL** – Lights up when the player is put into the EDIT mode.

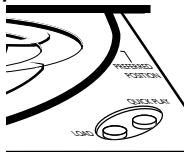
## Inserting the CDs

### NOTE!

Use only **audio CD**; **audio CD-R** or **audio CD-RW**.



- Press **POWER-ON/OFF** to switch the changer on.
- The changer will now start CD detection to check how many CDs there are in the CD compartment. The turntable will rotate slowly until all positions (1 - 5) in the CD compartment have been checked.
- The position which is being checked is always shown on the display (DISC X).
- After CD detection the 1 - 5 CD number indicator will show the number of CDs in the CD compartment.
- Open the CD compartment by pressing **OPEN/CLOSE**.
- **OPEN** lights up.
- Insert the CDs, **printed side up**; use the **LOAD** button to rotate the turntable in the CD compartment.
- Close the compartment by pressing **OPEN/CLOSE**.
- **CLOSE** lights up. The changer will start CD detection again.



### NOTE!

- CD detection may never be interrupted. If, during detection, you press any button, then the changer will stop detection and the display will give an incorrect indication of the number of CDs in the CD compartment.
- **Always** remove all CDs from the CD compartment if you want to transport the changer.

## Normal Playback (PLAY ►)

- The display shows the number of the current CD.



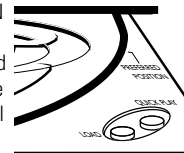
- Press **PLAY ►** to start playback.
- The CD number indicator (1-5) always shows what CD is being played (► DISC X flashes).
- The track being played and its elapsed playing time are shown under **TRACK** and **TRACK TIME**. See 'CALLING UP INFORMATION ON THE DISPLAY' if you wish to see other information on the display.



- Play will stop after all CDs have been played.
- Press **POWER-ON/OFF** to switch the changer off.

## Quick Play

- Use the **PREFERRED POSITION** in the CD compartment if you wish to insert only one CD and then start play by pressing the **QUICK PLAY** button. Play will then start immediately with the inserted CD.



### NOTE!

- You can also press **PLAY ►** immediately after inserting the CDs; the compartment then closes automatically and play starts from the first available CD.
- You can interrupt playback by pressing **PAUSE ||**. **PAUSE** then lights up. Press **PLAY ►** or **PAUSE ||** to restart.
- If you press **PLAY ►** during play, the current track will start again from the beginning.
- You can stop playback by pressing **STOP ■**.
- If you press **OPEN/CLOSE** during play, the CD compartment will open while play continues. The three CDs outside the changer may now be changed without playback being interrupted.

## Selecting Another Track During Play (|◀◀ ▶▶|)

- Press ▶▶| or |◀◀ (less than 0.5 seconds) until the desired track number appears under TRACK.



- The music stops and a moment later the selected track begins to play.

**WRONG TRACK:** lights up when you select a non-existent track number.

## Selecting Another CD During Play (CD DIRECT PLAY)

- Key in the desired CD number.
- The music stops and a moment later the selected CD begins to play.

**no DISC** lights up when there is no CD in the selected CD compartment.

You can also select the number by using the **DISC** button on the remote control.

## Searching For A Passage During Play (|◀◀ ▶▶|)

- Hold |◀◀ down to search backwards to the beginning.
- Hold ▶▶| down to search forwards to the end.

The searching speed is determined by how long a key is pressed:

- the first 2 seconds fairly slowly, with sound;
- then at the maximum speed, with attenuated sound.

If you reach the end of the last track and release ▶▶|, play will resume a few seconds before the end of the CD.

## Starting With A Particular CD (CD DIRECT PLAY)

- Key in the required CD number.
- If the CD compartment was open, it will now close.
- Play starts from the selected CD.

**no DISC** lights up when there is no CD in the selected CD compartment.

You can also select the number by using the **DISC** button on the remote control.

## Starting With A Particular Track (CD DIRECT PLAY, |◀◀ ▶▶| and PLAY ▶)

- First select the number of the required CD using **CD DIRECT PLAY** or **DISC** on the remote control.
- If the CD compartment was open, it will now close.
- Then select the (track) number by using ▶▶| or |◀◀ (press less than 0.5 seconds).
- Press **PLAY ▶**.
- Play starts from the selected track.

**WRONG TRACK:** lights up when you select a non-existent track number.

**no DISC** lights up when there is no CD in the selected CD compartment.

## Scanning CDs (SCAN)

### All CDs:

- Press **SCAN** before or during play.
- If the CD compartment was open, it will now close.
- **SCAN** lights up and the first 10 seconds of each track are played in turn (starting from the current track). 10 seconds are counted down each time under REM(aining) TRACK TIME.



- When the player reaches a track which you wish to hear in full, press **SCAN** again or **PLAY ▶**

## Playing In Random Order (SHUFFLE)

### All CDs:

- Press **SHUFFLE** before or during play.
- If the CD compartment was open, it will now close.
- SHUFFLE lights up and all the tracks are now played in a random order.



- If you press **▶▶**, you will select any one of the following tracks.
- Press **SHUFFLE** again if you wish to return to normal play.

### NOTE!

- If, during play, you open the CD compartment to change CDs (see 'NORMAL PLAYBACK') then playback in random order will be cancelled. Playback will stop as soon as the last track of the current CD has been played (in normal order).

## Calling Up Information On Display (TIME)

### In STOP mode:

#### Text display

- After loading the CDs and closing the CD compartment, the display shows the number of the CD to be played (= default display in STOP mode).



- Press **TIME** to shows the number of tracks and the total playing time of the current CD (TOTAL TIME).



### During play:

#### 1. Time display

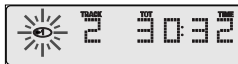
- When you start play (from STOP mode), the display shows the elapsed playing time of the current track (= default display in PLAY mode).



- Press **TIME** whenever you want to know the remaining playing time of the current track (REM TRACK TIME).



- Press **TIME**, if you wish to know the total playing time from the beginning (TOTAL TIME).



- Press **TIME** again if you wish to know the remaining playing time of the entire CD (TOTAL REM TIME).

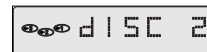


### Note :

- TOTAL REM(aining) TIME and TOTAL TIME indications are not available in SHUFFLE mode.

## 2. Text display

- If you press **TIME** again, you will switch to text display; the display shows the number of the current CD.



- If you wish to know the total playing time of the entire CD you must go back to STOP mode first and then press TIME.
- The display now shows the number of tracks and the total playing time of the current CD (TOTAL TIME).

## Repeating Play (REPEAT)

### Repeating a track:

- Press **REPEAT** before or during playback of the CD.
- REPEAT 1 lights up; the track will now be repeated continuously.



- Press **REPEAT** three times to stop the track being repeated.

### Repeating a CD:

- Press **REPEAT** twice before or during playback of the CD.
- REPEAT DISC lights up; the CD will now be repeated continuously.



- Press **REPEAT** twice to stop the CD being repeated.

Note:

- Repeating of a CD is not possible during shuffle or program mode.

## Repeating all CDs:

- Press **REPEAT** three times before or during playback.
- REPEAT lights up; all CDs will now be repeated continuously.



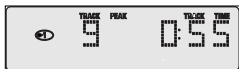
- Press **REPEAT** again to stop the CDs being repeated.

NOTE!

- When a program has been stored (for one or more CDs), then only the program will be repeated.

## Searching For The Loudest Passage (PEAK SEARCH)

- In STOP mode, press **PEAK SEARCH**.
- **SELECT** and **DISC** lights up and PEAK starts flashing.
- Press **PEAK SEARCH** again to select the last selected disc or press any **CD DIRECT PLAY** button or **DISC** (on the remote control) to select the desired disc.
- The CD will now be scanned for the loudest passage (the peak).
- The display shows the track being scanned and its elapse playing time.



- When the loudest passage has been found it will be repeated continuously (from 2 seconds before the peak until 2 seconds after the peak) and PEAK lights up.
- You can now adjust your recording device.
- You can stop the scan by pressing **STOP** ■; if you press **PLAY** ►, the CD will be played from the beginning.

NOTES!

- When searching for the loudest passage in a program (from one or more CDs) there is no need to enter the CD number(s).
- If you wish to record tracks from different CDs you have to repeat peak search for each CD.
- You can interrupt PEAK SEARCH by pressing **STOP** ■.

## Adjusting The Sound Level

( – VOLUME + ) (on the remote control only)

The volume output of the CD changer can be adjusted. This will affect the analog out, digital out and headphones level.

- Press **VOLUME** – or + to reduce or increase the sound level.
- The display will show a value between VOL 0 and VOL 20.

**Important!**

**The volume level will influenced the sound level during recording. Set the volume level to the maximum and do not change the volume setting during recording.**

## Locking the volume

This unique feature allows you to lock the volume level when listening to the headphones or doing recording.

- Press **EDIT** for more than 2 seconds.
- The displays will show VOL LOCK.

## Unlocking the volume

- Press **EDIT** for more than 2 seconds.
- The displays will show VOL 20.

Note:

- When you adjust the volume and the display shows VOL LOCK, it means that the volume is in the lock mode.

## Listening to the headphones

- Connect the headphones to the PHONES socket.
- Adjust the headphones sound level with the LEVEL control.

Note:

- Should there be no sound after adjusting the LEVEL control to maximum; press VOLUME + on the remote control to increase the sound level.

## Activating The Fade-In And Fade-Out Function (FADER)

### NOTE!


- The **FADER** function can be used if the changer is connected to the amplifier or the system via the **ANALOG OUT** output.
- During play press **FADER**.
- The sound level will now gradually decrease (FADE OUT), after which the changer will go into the **PAUSE** mode.

FADE 3 → FADE 2 → FADE 1

- Press **FADER** again.
- Play continues and the sound level will increase again to the originally set level (FADE IN).

FADE 1 → FADE 2 → FADE 3

## Storing A Program (PROGRAM)

- By programming the changer you can play up to 40 tracks in any required sequence.
  - **FULL** lights up if you exceed the maximum of 40 tracks.
  - **no d!SC** lights up when there is no CD in the selected CD compartment.
  - In **STOP** mode, press **PROGRAM** to open the memory.
  - **SELECT d!SC** lights up and **PROGRAM** starts flashing.
  - Press **PROGRAM** again to select the last selected disc or press any **CD DIRECT PLAY** button or **DISC** (on the remote control) to select the desired disc.
  - Press **▶▶** or **◀◀** (less than 0.5 seconds) until the first track number you wish to program appears under **TRACK**.
  - Press **PROGRAM** again.
- 
- The track number has now been stored in the changers memory.
  - Select the other track numbers required and store each track by pressing **PROGRAM**.
  - The number of tracks and the playing time of your program will be shown under **TRACK** and **TOT(al) TIME**.
  - Press **STOP** to quit the **PROGRAM** mode.

### Note:

- If the total playing time is more than "99:59", then " - - - - " appears in the display instead of the total playing time.

## Playing The Program (PLAY ▶)

- Press **PLAY ▶**.
- Playback starts with the first number of the program.

The **PROGRAM** and **EDIT** buttons cannot be used during programmed play. Search for a particular passage is only possible within the track being played.

## Erasing A Program (STOP ■ or OPEN/CLOSE)

### In **PLAY** mode:

- Press **OPEN/CLOSE** or **STOP ■** (twice).

### In **STOP** mode:

- Press **OPEN/CLOSE** or **STOP ■**.
- The program has now been erased.

The EDIT function has two recording modes in which you can store the recording time in the changer memory.

**EDIT NORMAL** – The changer will determine which tracks fit on each side of the tape and will stop after the last track. The tracks will be recorded in the order in which they appear on the CD(s).

**EDIT OPTIMAL** – The changer now calculates the combination of tracks that will optimize the use of available recording time.

#### NOTE!

- The EDIT function **cannot** be used for CDs containing more than 40 tracks.
- The – VOLUME + keys on the remote control may not be used during recording as they affect the strength of the signal from the changer.

## Before Recording

### Important!

**The volume level will influence the sound level during recording. Set the volume level to the maximum and do not change the volume setting during recording.**

### Preparation:

- A program to be recorded, must be stored in advance. See 'PROGRAMMING'.
- If required you can search the loudest passage and adjust your recording device. See 'SEARCHING THE LOUDEST PASSAGE (PEAK SEARCH)'. This can also be done after selecting the recording mode and the recording time. See below.

- Press **EDIT** to activate the EDIT mode.
- **SELECT DISC** appears on the display.
- Press **EDIT** again to select the last selected disc or press any **CD DIRECT PLAY** button or **DISC** (on the remote control) to select the desired disc. When recording a program there is no need to enter the CD number(s).

### Selecting the recording mode:

- The display shows **NORMAL** (= EDIT NORMAL which is the default setting).
- With **◀◀ ▶▶** can now select Opt(imal), CANCEL or EDIT (NORMAL) again.
- The display shows **OPT** (imal), **CANCEL** or **NORMAL** again.
- Press **EDIT** to store the required recording mode (NORMAL or OPTimal). If you select CANCEL, the EDIT mode will be cancelled and the changer will go back to STOP mode.
- As soon as you have stored the recording mode the display shows **C90** (default setting).

### Selecting the recording time:

- As soon as you have stored the recording mode the display shows **C90** (default setting).
- With **◀◀ ▶▶** you can now select the required recording time:

C30, C45, C60, C90, C100, C120,  
CDR2 I, CDR60 or CDR74.

In EDIT NORMAL mode the recording time must be at least equal to the playing time of the first track on the first CD or in the program.

In EDIT OPTimal mode the recording time must be at

least equal to the playing time of the shortest track on the CD(s) or in the program.

- **NOTE POSSIBLE** lights up if you select a 'wrong' time.
- Press **EDIT** to store the required recording time.
- The CD changer will now go back to STOP mode
- You can now record the CD or the program.

## Recording

- Press **PLAY ▶**.
- Playback starts with the selected CD (or with the first track of the program).
- The display shows the elapsed playing time of the current track.
- Press **TIME** to switch to other time display information.
- The number of tracks for side A and their playing time are shown on the display.



- After the last track that fits on side A of the tape, the CD changer will go into PAUSE mode.
- PAUSE lights up.
- Under TRACK you will see the number of the first track to be recorded on side B of the tape.



- Turn the tape over or select the tape travel direction for side B.



- Press **PLAY** ►.
- The remaining tracks will now be played.
- After the last track play will stop; **EDIT** **CANCELLED** lights up.

**NOTE!**

- As soon as you press **PLAY** ► the other changer functions will temporarily be switched off to prevent the recording being interfered with; **EDIT ACTIVE** lights up if you press one of the other buttons during recording.
- You can quit the **EDIT** mode by pressing **STOP** ■, or **OPEN/CLOSE**; **EDIT CANCELLED** then lights up.
- **EDIT NOT POSSIBLE** lights up if you try to record a CD containing more than 40 tracks.
- Should the CD or the program be longer than the total recording time of the tape, play will stop after the last track that fits onto side B of the tape.
- Should the first track of the first CD or the program be longer than one side of the tape (= the entered recording time divided by two), then **EDIT NOT POSSIBLE** will light up. You will now have to enter another recording time.

## Synchronized Recording

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- Make sure that the changer is connected via the **REMOTE CONTROL** sockets to the **REMOTE CONTROL IN (RC 5 IN)** sockets of the Marantz cassette deck.
- Set the changer to **EDIT** mode.
- Select the **↔** (auto reverse) mode (if available) on the cassette deck.
- Set the **TIMER** switch (if available) on the deck to 'PLAY/SYNC REC' position.

- The cassette deck will go into **REC PAUSE** mode (=synchronized recording mode).
- Press **PLAY** on the CD Changer.
- Recording starts and after 4 seconds play starts at the beginning of the CD or the programme.
- After each track an extra pause of 4 seconds (**AUTO SPACE** will be inserted).
- **AUTOSPACE** lights up.
- If you record a programme from different CDs the cassette deck will go into **PAUSE** mode everytime the CD Changer selects a new CD in the CD compartment. As soon as playback of the new CD starts, the deck will continue the recording.
- After the last track that fits on side A of the tape, the CD changer will go into **PAUSE** mode.
- As soon as the CD changer receives a command from the cassette deck, playback starts with the first track for side B. You may also press **PAUSE** to restart play.
- Synchronized recording will stop after the last track of the CD or programme.

**NOTE!**

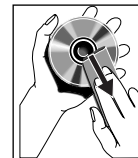
- As soon as you start recording, the other changer functions will temporarily be switched off to prevent the recording being interfered with; **EDIT ACTIVE** lights up if you press one of the other buttons during play/recording.
- You can stop playback/recording by pressing **STOP**.

## Maintenance

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**The CDs**

- Never write on the printed side of a CD.
- Do not attach any stickers to the CD.
- Keep the shiny surface of the disc clean. Use a soft lint-free cloth and always wipe the disc in a straight line from centre to edge.
- Never use cleaning agents for conventional records.
- Detergents or abrasive cleaning agents should not be used either.

**The changer**

- A chamois leather slightly moistened with water is sufficient for cleaning the changer.
- Do not use cleaning agents containing alcohol, spirits, ammonia or abrasives.

## Environmental Information

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All unnecessary packaging material has been omitted. We have done our utmost to make the packaging easily separable into three mono-materials: cardboard (box), polystyrene foam (buffer) and polythene (bags, protective foam sheet).

Your system consists of materials which can be recycled and reused if disassembled by a specialized company. Please observe the local regulations regarding the disposal of packaging materials, exhausted batteries and old equipment.

## Technical Data

### Typical Audio Performance

Frequency range:	.20 Hz - 20 kHz
Amplitude non-linearity:	≤ 3 dB (1 kHz, -90 dB)
Dynamic range:	>90 dB (1 kHz)
Signal-to-noise ratio:	>95 dB (1 kHz)
Channel separation:	>95 dB (1 kHz)
Channel unbalance	≤ 1 dB (1 kHz)
Total harmonic distortion:	.0.004% (1 kHz)
Audio output level:	.2 Vrms, ± 2 dB, 1 kΩ
Impedance PHONES socket (6.5 mm):	.30 – 600Ω
	(4.5V e.m.f. from 120Ω)
Digital coaxial output	.75Ω acc. IEC 958

### Power supply

Mains voltage and frequency:	.....
	..... see the type plate on the rear of the changer
Power consumption:	..... <12 W
Safety requirements:	..... UL1270

### Cabinet

Material/finish:	.....
	..... metal and polystyrene with decorative trim
Dimensions (w x h x d):	..... 440 x 119 x 380 mm
Weight: (CC3000 & CC4000 only)	..... 6.0 kg
Weight: (CC4000/OSE only)	..... 7.4 kg

### Subject to modification

If a fault occurs, run through the points listed below before taking your changer for repair.

If the fault remains, try to clear it by **switching the changer off and on again**. If this also fails to help, consult your dealer.

**Under no circumstances should you repair the changer yourself as this will invalidate the guarantee!**

### Playback does not start or interruption of playback.

- The current CD has been loaded upside down.  
→ *Reload the CD, label side up.*
- No CDs inserted.  
→ *Insert the CDs, label side up.*
- The current CD is badly scratched or dirty.  
→ *Clean the CD with a soft, lint-free cloth.*
- Moisture condensation on the lens.  
→ *Leave the CD changer in a warm environment until the moisture evaporates.*

### Sound skips (at the same part).

- The current CD is dirty.  
→ *Clean the CD with a soft, lint-free cloth.*

### The current CD skips tracks.

- The CD is damaged or dirty.  
→ *Replace or clean the CD.*

### Playback does not start from the first track (of the current CD).

- PRG (program) or SHUFFLE activated.  
→ *Switch off SHUFFLE or clear program.*

### No sound or bad sound.

- Loose or wrong connections.  
→ *Check connections.*

- Strong magnetic fields near the CD changer.  
→ *Find another place for the unit or change connections.*

### No sound or bad sound on headphones.

- Volume control on remote control is at minimum.  
→ *Increase the volume control level.*
- Level control set to – position.  
→ *Set level control.*
- Headphones plug is dirty.  
→ *Clean plug.*

### Volume is too low.

- Sound level has been adjusted too low with the –VOLUME + keys on the remote control.  
→ *Adjust sound level.*

### Remote control does not function.

- Batteries are empty.  
→ *Replace the batteries.*

### Remote control commands are not properly received.

- The distance between remote control and CD changer is larger than 10 metres.  
→ *Reduce the distance between remote control and CD changer.*

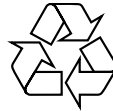




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