

marantz®

Model CC-67 User Guide

Compact Disc Changer



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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 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, etc.
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, 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.
CAUTION: To prevent electric shock, match wide blade of plug to wide slot and fully insert.
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 and plugs, convenience receptacles, and the point where they 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. **Non-use 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 as described in the operating instructions. All other servicing should be referred to qualified service personnel.

	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 PERSONNEL.		



This symbol warns the user that uninsulated voltage within the unit may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any inside part of this unit.

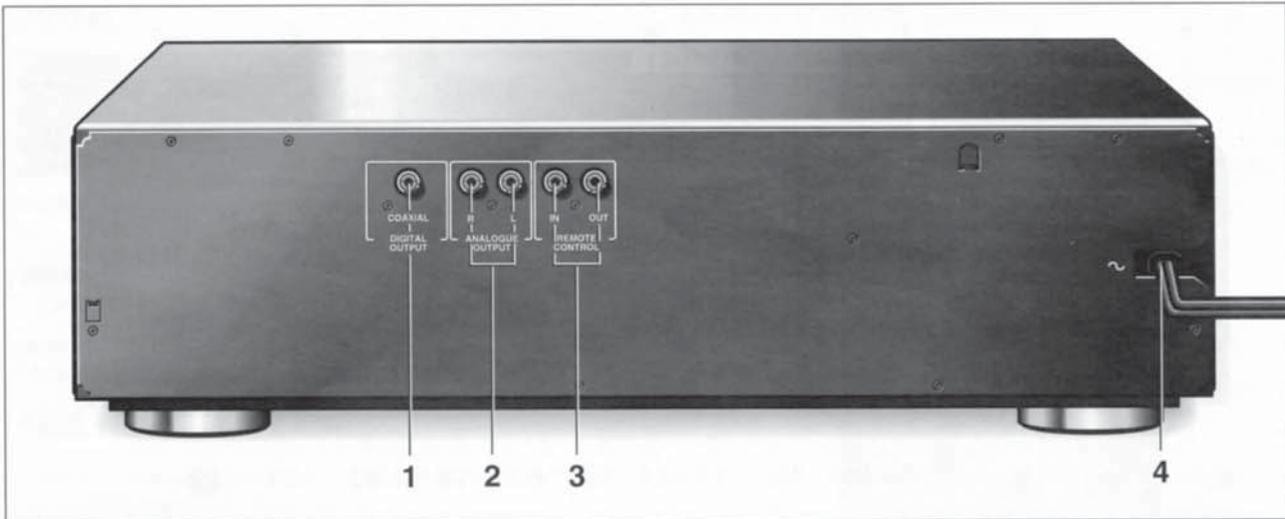


This symbol alerts the user that important literature concerning the operation and maintenance of this unit has been included. Therefore, it should be read carefully in order to avoid any problems.

WARNING
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.
CAUTION
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.
<i>This set complies with 21 CFR 1040.10 and with the FCC-Rules, Part 15</i>

 **Canada**

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the Radio Interference Regulations of the Canadian Department of Communications.



POWER SUPPLY SETTING

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

SITING THE COMPACT DISC CHANGER

Free standing

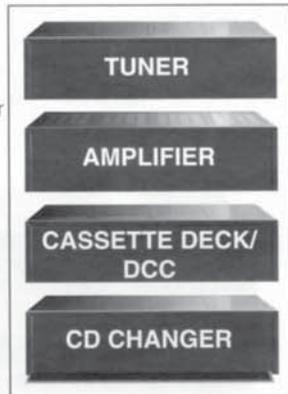
- Always position the changer horizontally on a flat, firm surface.
- Allow a free space of at least 1 1/8" (3 cm) above the changer so as not to interfere with the cooling of the changer.

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 OUTPUT

For connecting the CD changer to e.g. a DCC deck or other digital equipment.

- Connect the DIGITAL OUTPUT jack to the DIGITAL IN jack of the other set.

For *digital recording* from the CD changer, connect the DIGITAL OUTPUT jack to the DIGITAL IN jack of the DCC recorder.

Use here a cord with one cinch plug on either end.



2 ANALOGUE OUTPUT

For the connection cord to the amplifier/receiver.



- Insert a red plug into the 'R' jack and the other plug into the 'L' jack.
- Insert the two other plugs into the corresponding jacks of the CD or AUX input of your amplifier/receiver. 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.

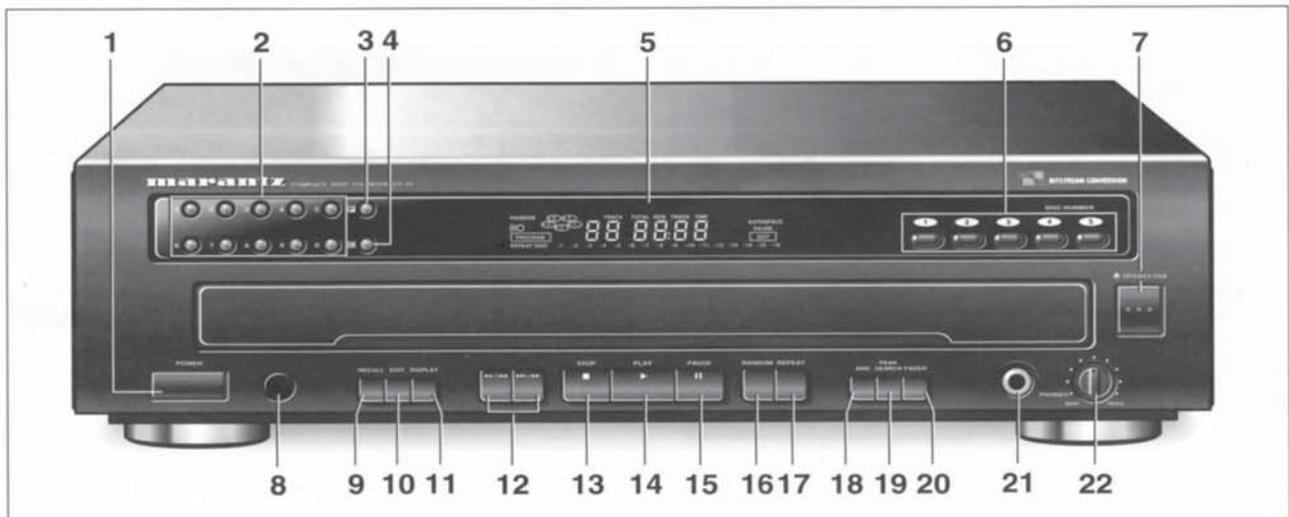
4 Power cord

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 measures:

- Reorient or locate 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.



FRONT OF CHANGER

- 1 POWER** – Switching on and off.
- 2 1-0 digit buttons**
- Selecting another track during play.
 - Selecting a track to start play with.
 - Selecting tracks when compiling a program.
 - Selecting the recording time when making a tape recording (EDIT).
- 3 P (program)** – Opening and closing the memory when compiling a program.
- 4 C (cancel)**
- Erasing a program.
 - Erasing track numbers from a program.
- 5 Display** – Informs you about the functioning of the player.
- 6 DISC NUMBER**
- Selecting another CD during play.
 - Selecting a CD to start play with.
 - Selecting CDs when compiling a program.
- 7 OPEN/CLOSE** – Opening and closing the CD compartment.
- 8 Infra Red sensor** – Receives the signals from the remote control.
- 9 RECALL** – Checking a program.
- 10 EDIT** – Activating the EDIT function when making a tape recording.
- 11 DISPLAY** – Selecting the information you want to see on the display.
- 12 <<</>>>>**
- Selecting another track during play.
 - Selecting a track to start play with.
 - Fast search to a particular passage during play.
 - Selecting the recording mode when making a tape recording.
 - Selecting the recording time when making a tape recording.
- 13 STOP**
- Stopping play.
 - Erasing a program.
- 14 PLAY**
- Starting play.
 - Returning to the beginning of a track.
- 15 PAUSE** – Interrupting play.
- 16 RANDOM** – Playing in random order.
- 17 REPEAT** – Repeating play.
- 18 AMS (Automatic Music Scan)** – Automatically playing the beginning of each track.

- 19 PEAK SEARCH** – Searching the loudest passage (peak) on a CD or in a programme when making a tape recording.
- 20 FADER** – Fading the volume in and out during play.
- 21 PHONES** – Connecting headphones.
- 22 Level control** – Adjusting the volume when listening with headphones.
- 23 QUICK PLAY** – Immediate playing of a particular CD.
- 24 LOAD** – Rotating the turntable in the CD compartment when inserting CDs.



DISPLAY



RANDOM – Lights up when the tracks are played in random order.
 (O – Lights up when the changer receives a command from the remote control.

PROGRAM

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

REPEAT DISC – Lights up when you repeat a CD.

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

1 - 5 CD number indicator

- Flashes when you switch the changer on.
- Indicates the number of CDs in the CD compartment.
- Indicates what CD is being played.

TRACK – Indicates:

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

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.

TOTAL REM(aining) TIME – Indicates the remaining playing time of a CD.

TOTAL TIME – Indicates the total playing time of a CD.

AUTOSPACE – Lights up when an extra pause is inserted between the different tracks (when making a synchronized recording).

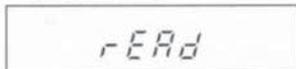
PAUSE – Lights up when play is interrupted.

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

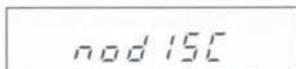
1-15 track number indicator – Shows the number of tracks on a CD.

+15 – Lights up when there are more than 15 tracks on a CD.

Display messages:



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



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



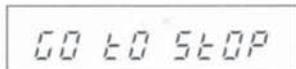
Lights up when a non audio CD is inserted, such as CD-ROM or CD-i.



Lights up when you select a non-existent track number.



Lights up if you try to activate a function for which you must first start play.

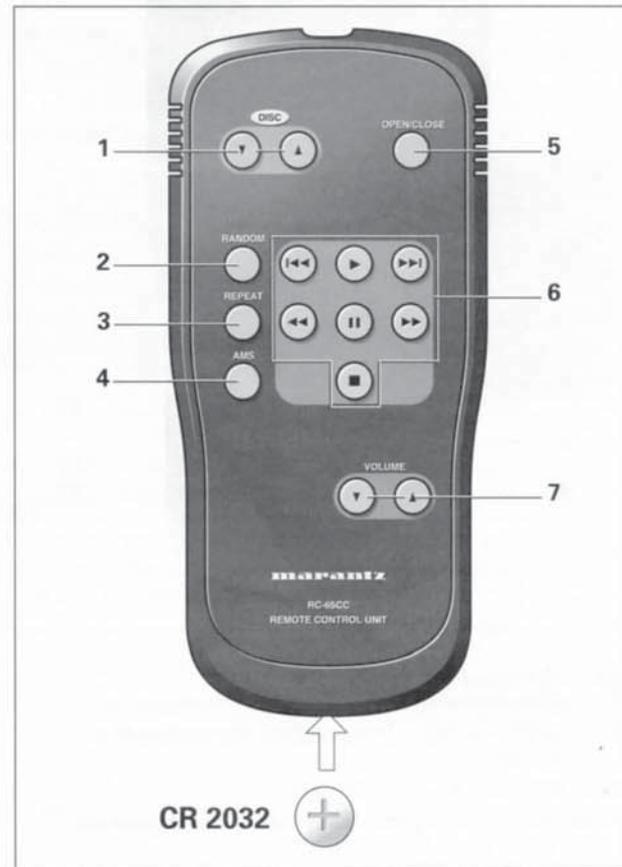


Lights up if you try to activate a function for which you must first stop play.

REMOTE CONTROL - GENERAL

The remote control can be used for operating the CD changer (keys on front) as well as for operating a Marantz HiFi system (keys at the rear).

REMOTE CONTROL- FRONT (CD changer functions)



1 ▼ DISC ▲

- Selecting another CD during play.
- Selecting a CD to start play with.
- Selecting CDs when compiling a program.

2 RANDOM – Playing in random order.

3 REPEAT – Repeating play.

4 AMS – Automatically playing the beginning of each track.

5 OPEN/CLOSE – Opening and closing the CD compartment.

6 ◀◀ and ▶▶

- Selecting another track during play.
- Selecting a track to start play with.
- Selecting the recording mode when making a tape recording.
- Selecting the recording time when making a tape recording.

- ▶ – Starting play.
- Returning to the beginning of a track.
- ◀◀ and ▶▶ – Fast search to a particular passage during play.

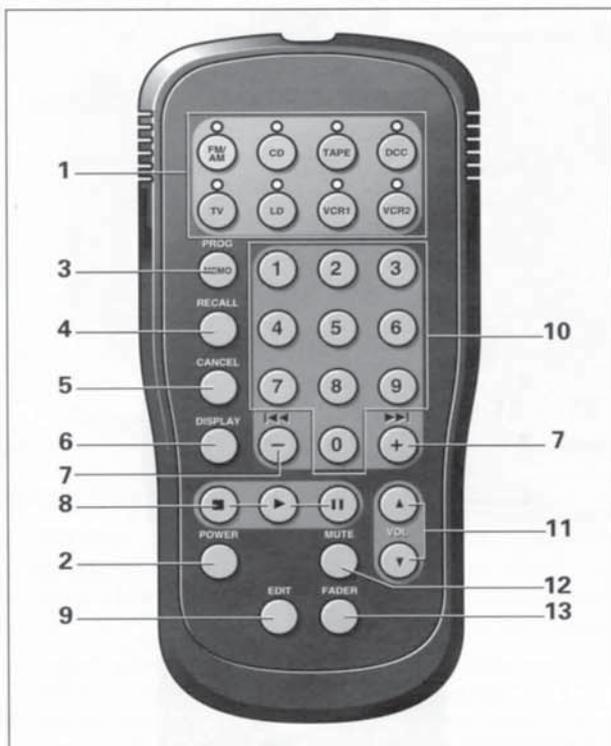
II – Interrupting play (PAUSE).

- – Stopping play.
- Erasing a program.

7 ▼ VOLUME ▲ – Adjusting the sound level when the changer is connected via the ANALOGUE OUTPUT or the DIGITAL OUTPUT to an amplifier or HiFi system *without* its own remote volume control.

REMOTE CONTROL - REAR

(Marantz audio/video system functions)

**General functions**

- 1 **Source selection keys** – Selecting the required source.
- 2 **POWER** – Switching the selected source on and off (standby).
- 11 **▲ VOL(ume) ▼** – Adjusting the sound level.
- 12 **MUTE ▼** – Muting the sound from the loudspeakers.

Tuner functions (FM/AM)

- 4 **RECALL** – Tuning up.
- 5 **CANCEL** – Tuning down.
- 6 **DISPLAY** – Selecting mono or stereo reception.
- 7 **– |◀◀ and ▶▶| +** – Selecting preset stations.
- 10 **1-0 digit buttons** – Selecting preset stations.

Laser Disc functions (LD)

- 8 **■** – Stopping play.
- ▶** – Starting play.
- ||** – Interrupting play.
- 9 **EDIT** – Selecting side A of a laser disc.
- 10 **FADER** – Selecting side B of a laser disc.
- 6 **DISPLAY** – Selecting the LD audio mode.
- 4 **RECALL** – Scanning forward.
- 5 **CANCEL** – Scanning backward.

Cassette deck/DCC functions (TAPE/DCC)

- 4 **RECALL** – Winding the tape.
- 5 **CANCEL** – Rewinding the tape.
- 6 **DISPLAY** – Selecting the tape travel direction.
- 7 **– |◀◀ and ▶▶| +** – Selecting a next or previous track.
- 8 **■** – Stopping play.
- ▶** – Starting play.
- ||** – Interrupting play.
- 9 **EDIT** – Selecting deck A of a double deck.
- 10 **FADER** – Selecting side B of a double deck.

CD functions (CD)

- 3 **PROG(ramme) MEMO** – Opening and closing the memory when compiling a program.
- 4 **RECALL** – Checking a program.
- 5 **CANCEL**
 - Erasing a program.
 - Erasing track numbers from a program.
- 6 **DISPLAY** – Selecting the information you want to see on the display.
- 7 **– |◀◀ and ▶▶| +**
 - Selecting another track during play.
 - Selecting a track to start play with.
 - Selecting the recording mode when making a tape recording.
 - Selecting the recording time when making a tape recording.
- 8 **■**
 - Stopping play.
 - Erasing a program.
- ▶**
 - Starting play.
 - Returning to the beginning of a track.
- ||**
 - Interrupting play (PAUSE).
- 9 **EDIT** – Activating the EDIT function when making a tape recording.
- 10 **1-0 digit buttons**
 - Selecting another track during play.
 - Selecting a track to start play with.
 - Selecting tracks when compiling a program.
 - Selecting the recording time when making a tape recording (EDIT).
- 13 **FADER** – Fading in and out during play.

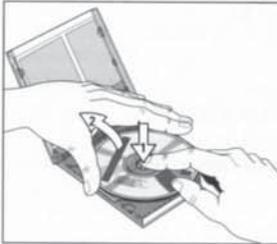
Video recorder functions (VCR 1/VCR 2)

- 4 **RECALL** – Winding the tape.
- 5 **CANCEL** – Rewinding the tape.
- 6 **DISPLAY**
 - Language selection.
 - Selecting the VCR audio mode.
- 8 **■** – Stopping play.
- ▶** – Starting play.
- ||** – Interrupting play.
- 10 **1-0 digit buttons** – Setting the clock.

INSERTING THE CDs

NOTE! Use only audio CDs; no CD-ROM, CD-i or CDV.

- Press POWER **1** 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 **7**.
 - OPEN lights up.
- Insert the CDs, **printed side up**; use the LOAD button **24** to rotate the turntable in the CD compartment.



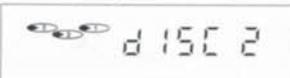
- Close the compartment by pressing OPEN/CLOSE **7**.
 - CLOSE lights up. The changer will start CD detection again.

NOTE!

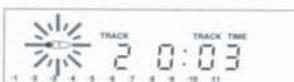
- CD detection should *not* be interrupted. If, during detection, you press any button, then the changer will stop detection and the display will give an incorrect indication of the number of CDs in the CD compartment.
- **Always** remove all CDs from the CD compartment if you want to transport the changer.

NORMAL PLAYBACK (PLAY/REPLAY)

- The display shows the number of the current CD.



- Press PLAY **14** to start playback.
 - READ lights up and play starts from the first available CD.
 - The CD number indicator (1-5) always shows what CD is being played (▶ X) and the track number indicator (1-15) shows how many tracks are on the CD; when a track has been played, its number disappears.
 - The track being played and its elapsed playing time are shown under TRACK and TRACK TIME. See 'CALLING UP INFORMATION ON THE DISPLAY' on page 11 if you wish to see other information on the display.



- Play will stop after all CDs have been played.
- Press POWER **1** to switch the changer off.

NOTE!

- You can also press PLAY **14** immediately after inserting the CDs; the compartment then closes automatically.
- 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 **23**. Play will then start immediately with the inserted CD.
- You can interrupt playback by pressing PAUSE **15**; 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 **13**.
- If you press OPEN/CLOSE **7** *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 (1-0)

- Key in the desired track number (on the current CD); numbers consisting of two figures must be keyed in **within 2 seconds**.
- The music stops and a moment later the selected track begins to play.

NOT POSSIBLE lights up if you select a non-existent number. You can also select the number by using **▶▶/▶▶ 12** (press less than 0.5 seconds).

SELECTING ANOTHER CD DURING PLAY (DISC NUMBER)

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

NOT POSSIBLE lights up if you select a non-existent number.

SEARCHING FOR A PASSAGE DURING PLAY (◀◀/▶▶ ▶▶/▶▶)

- Hold **◀◀/▶▶ 12** down to search backwards to the beginning.
- Hold **▶▶/▶▶ 12** 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 no sound.

If you reach the end of the last track and release **▶▶/▶▶ 12**, play will resume a few seconds before the end of the CD.

STARTING WITH A PARTICULAR CD (DISC NUMBER)

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

NOT POSSIBLE lights up if you select a non-existent number.

STARTING WITH A PARTICULAR TRACK (1-0)

- First select the number of the required CD using **DISC NUMBER 6**.
- Then key in the required track number (numbers consisting of two figures must be keyed in **within 2 seconds**).
- If the CD compartment was open, it will now close.
- Play starts from the selected track.

You can also select the (track) number by using **◀◀/▶▶** or **▶▶/▶▶ 12** (press less than 0.5 seconds) and then pressing **PLAY 14**.

NOT POSSIBLE lights up if you select a non-existent (track) number.

SCANNING CDs (AMS)

All CDs:

- Press **AMS 18** 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 **AMS again** or **PLAY 14**.

One CD:

- Select the number of the required CD using **DISC NUMBER 6**.
- Press **AMS 18**, **within the time** the CD number is flashing on the display.
- Now only the first 10 seconds of each track on the selected CD will be played in turn.

PLAYING IN RANDOM ORDER (RANDOM)

All CDs:

- Press **RANDOM 16** before or during play.
- If the CD compartment was open, it will now close.
- **RANDOM** lights up and all the tracks are now played in a random order.



- If you press **▶▶/▶▶ 12**, you will select any one of the following tracks.
- Press **RANDOM** again if you wish to return to normal play.

NOTE!

If, during play, you open the CD compartment to change CDs (see 'NORMAL PLAYBACK' on page 9) 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).

One CD:

- Select the number of the required CD using **DISC NUMBER 6**.
- Press **RANDOM 16**, **within the time** the CD number is flashing on the display.
- **DISC** and **RANDOM** light up; the tracks of the selected CD will now be played in a random order.



- If you press **▶▶/▶▶ 12**, you will select any one of the following tracks.
- If you press **REPEAT 17**, the tracks will be repeated in a different order each time, although the first track will always be the same.
- When all tracks of the selected CD have been played, playback stops.
- Press **RANDOM** again if you wish to return to normal play.

REPEATING PLAY (REPEAT)

Repeating a CD:

- Press **REPEAT 17** 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.

Repeating all CD's:

- Press REPEAT **17** twice before or during playback.
- REPEAT lights up; all CDs will now be repeated continuously.



- Press REPEAT again to stop the CDs being repeated.

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 ANALOGUE OUTPUT or the DIGITAL OUTPUT.

- During play press FADER **20**.
- The sound level will now gradually decrease (FADE OUT), after which the changer will go into the PAUSE mode.



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



SEARCHING THE LOUDEST PASSAGE (PEAK SEARCH)

- In STOP mode, press PEAK SEARCH **19**.
- SELECT DISC lights up.
- Select the number of the required CD using DISC NUMBER **6**.
- The CD will now be scanned for the loudest passage (the peak).
- The display shows the track being scanned and its elapsed 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)
- You can now adjust your recording device.
- You can stop the scan by pressing STOP **13**; if you press PLAY **14**, the CD will be played from the beginning.

NOTE!

- 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.

CALLING UP INFORMATION ON THE DISPLAY (DISPLAY)

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).



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 DISPLAY **11** whenever you want to know the remaining playing time of the current track (REM TRACK TIME).

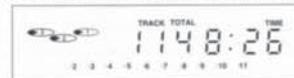


- Press DISPLAY again if you wish to know the remaining playing time of the entire CD (TOTAL REM TIME).



Note - TOTAL REM(aining) TIME indication is *not* available in RANDOM mode.

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



2. Text display

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



ADJUSTING THE SOUND LEVEL (▼ VOLUME ▲)

NOTE!

- Use the ▼ VOLUME ▲ keys (*front of remote control*) only if the changer is connected via the ANALOGUE OUTPUT or the DIGITAL OUTPUT to an amplifier or HiFi system *without* its own remote volume control.
- The setting chosen with ▼ VOLUME ▲ will be cancelled when the changer is switched off.

- Hold ▼ VOLUME **7** (*front of remote control*) pressed down.
- The output signal from the player will now decrease gradually.
- The successive steps are shown on the display.



- Release the key as soon as the required sound level is obtained.
- Hold VOLUME ▲ **7** (*front of remote control*) pressed down.
- The output signal will now increase again gradually to the maximum level.



- Release the key as soon as the required sound level is obtained.

STORING A PROGRAM (P and 1-0)

- By programming the changer you can play up to 30 tracks in any required sequence.
- **FULL** lights up if you exceed the maximum of 30 tracks.
- **NOT POSSIBLE** lights up if you select a non-existent CD number.
- **USE 0-9** lights up if you press **◀◀/▶▶** **12** while programming.

- In STOP mode, press P (program) **3** to open the memory.
- **SELECT DISC** lights up and **PROGRAM** starts flashing.
- Select the number of the first required CD using **DISC NUMBER 6**.
- Key in the required track numbers of the selected CD using the 1-0 digit buttons **2**.
- Every track number you enter in this way will be included immediately in the program.
- The display always shows the number of tracks and the playing time of your program.



- If you wish to store tracks from another CD, you should first enter the number of the CD.
- Press P to quit the PROGRAM mode.
- Press **PLAY 14** to play the program.

CHECKING THE PROGRAM (RECALL)

- Press **RECALL 9** prior to, during or after programmed play.
- **REV** lights up and all CD and track numbers appear in the programmed sequence on the display.
- Under **TRACK TIME** you will see the playing time of each track.



NO PROG will light up if no track numbers have yet been stored.
With **RECALL** you can proceed more rapidly to the next block of information.

PLAYING THE PROGRAMME (PLAY)

- Press **PLAY 14**.
- Playback starts with the first number of the program.

The **EDIT 10**, **P(program) 3** and **C(ancel) 4** and **PEAK SEARCH 19** buttons *cannot* be used during programmed play. Search for a particular passage is only possible within the track being played.

ERASING A PROGRAM (STOP, C or OPEN/CLOSE)**In PLAY mode:**

- Press **OPEN/CLOSE 7** or **STOP 13** (twice).

In STOP mode:

- Press **OPEN/CLOSE 7**, **C(ancel) 4** or **STOP 13**.

- The program has now been erased.

ERASING A TRACK FROM A PROGRAM (C)

- Press **RECALL 9** before or after programmed play (STOP mode).
- All CD and track numbers appear in the programmed sequence on the display.
- Press **C(ancel) 4** as soon as the number you wish to erase appears.
- The number has now been erased.
- The display shows the remaining number of tracks and the remaining program time for a few seconds.



NO PROG will light up if no track numbers have yet been stored and if you have not pressed **RECALL** first before cancelling.

The EDIT function has two recording modes in which you can store the recording time of the tape 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 30 tracks.
- The ▼ VOLUME ▲ keys on the remote control (7 front and 11 rear) may not be used during recording as they affect the strength of the signal from the changer.

BEFORE RECORDING

Preparation:

- A programme to be recorded, must be stored in advance. See 'PROGRAMMING' on page 12.
- If required you can search the loudest passage and adjust your recording device. See 'SEARCHING THE LOUDEST PASSAGE (PEAK SEARCH)' on page 11. This can also be done *after* selecting the recording mode and the recording time. See below.
- Press EDIT 10 to activate the EDIT mode.
- EDIT lights up and SELECT DISC appears on the display.
- Select the number of the required CD using DISC NUMBER 6. When recording a program there is no need to enter the CD number(s).
- NOT POSSIBLE lights up if you select a non-existent disc number.

Selecting the recording mode:

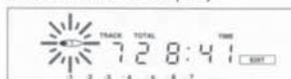
- The display shows EDIT (= EDIT NORMAL which is the default setting).
- With ◀◀/▶▶ 12 you can now select OPT(imal), CANCEL or EDIT (NORMAL) again.
- The display shows OPT(imal), CANCEL, or EDIT again.
- Press EDIT 10 to store the required recording mode (NORMAL or OPTimal). If you select CANCEL, the 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 ◀◀/▶▶ 12 you can now select the required recording time: C100, C105, C120, C30, C45, C60, C75 or C90.
- Other recording times can be selected using the 1-0 digit buttons 2; 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 programme.
- NOT POSSIBLE lights up if you select a 'wrong' time.
- Press EDIT 10 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 14.
- 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 DISPLAY 11 to switch to other 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.
- The track number indicator shows which tracks fit onto side B of the tape. Under TRACK you will see the number of the first track to be recorded.



- Turn the tape over or select the tape travel direction for side B.
- Press PAUSE 15.
- 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 14 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 13; EDIT CANCELLED then lights up.
- EDIT NOT POSSIBLE lights up if you try to record a CD containing more than 30 tracks.
- Should the CD or the programme 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 programme 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

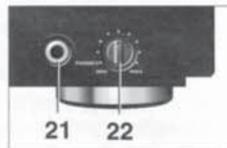
- Make sure that the changer is connected via the REMOTE CONTROL jacks to the REMOTE CONTROL IN (RC 5 IN) sockets of the Marantz cassette deck.
- Set the changer to the EDIT mode.
- Select the required recording time (see: 'EDIT' on page 13).
- Select the \curvearrowright (auto reverse) mode (if available) on the cassette deck
- Set the TIMER switch (if available) on the deck to 'PLAY/SYNC REC' position.
- Press REC PAUSE on the deck.
 - 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 every time 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 **15** to restart play.
 - Synchronized recording will stop after the last track of the CD or the program.

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 **13**.

LISTENING WITH HEADPHONES

- Connect headphones with a 6.3 mm jack plug to the PHONES socket **21**.
- The sound level is adjusted with control **22**.

**MAINTENANCE****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 center to edge.
- Never use cleaning agents for conventional records.
- Detergents or abrasive cleaning agents should not be used either.

**The changer**

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

RECYCLING

Please observe the local regulations regarding the disposal of packing materials, exhausted batteries and old equipment.

1. All redundant packaging material has been omitted. We have done our utmost to make the packaging easy separable into three mono-materials:
 - cardboard (box)
 - expandable polystyrene (buffer)
 - polyethylene (bags, protective foam sheet)
2. Your set consists of materials which can be recycled if disassembled by a specialized company.
3. Do not dispose of exhausted batteries with your household waste.
4. **Note:** Switching off the standby mode overnight will save energy.

TECHNICAL DATA**Typical Audio Performance**

Frequency range:5 Hz - 20 kHz
 Frequency response:0.2 dB (20 Hz - 20 kHz)
 Dynamic range:>96dB
 Signal-to-noise ratio:>106 dB
 Channel separation:>100 dB
 Total harmonic distortion:<.0025 %
 D/A conversion: Bitstream conversion (96 x oversampling, 1 bit), in differential mode
 Audio output level:2 V_{rms}
 Impedance PHONES socket:8 - 1000 ohms

Power supply

Voltage and frequency:120 V AC - 60 Hz
 Power consumption:9 W
 Safety requirements:UL and CSA

Cabinet

Material/finish: ...metal and polystyrene with decorative trim
 Dimensions (w x h x d):
 17" x 4 1/8" x 14 6/8" (435 x 106 x 380 mm)
 Weight: CC-67.....13 7/32 lbs (6 kg) approx.

Specifications are subject to change without notice.

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 or an Authorized Marantz Service Center. **Under no circumstances should you repair the changer yourself, as this will invalidate the warranty!**

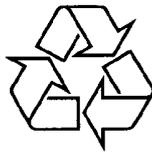
SYMPTOM	POSSIBLE CAUSE	REMEDY
<ul style="list-style-type: none"> - Playback does not start or interruption of playback. 	<ul style="list-style-type: none"> - The current CD has been loaded upside down. - No CDs inserted. - The current CD is badly scratched or dirty. - Moisture condensation on the lens. 	<ul style="list-style-type: none"> • Reload the CD, label side up. • Insert the CDs, label side up. • Clean the CD with a soft, lint-free cloth. • Leave the CD changer in a warm environment until the moisture evaporates.
<ul style="list-style-type: none"> - Sound skips (at the same part). 	<ul style="list-style-type: none"> - The current CD is dirty. 	<ul style="list-style-type: none"> • Clean the CD with a soft, lint-free cloth.
<ul style="list-style-type: none"> - The current CD skips tracks. 	<ul style="list-style-type: none"> - The CD is damaged or dirty. 	<ul style="list-style-type: none"> • Replace or clean the CD.
<ul style="list-style-type: none"> - Playback does not start from the first track (of the current CD). 	<ul style="list-style-type: none"> - P (program) or RANDOM activated. 	<ul style="list-style-type: none"> • Switch off RANDOM or clear program.
<ul style="list-style-type: none"> - No sound or bad sound. 	<ul style="list-style-type: none"> - Loose or wrong connections. - Strong magnetic fields near the CD changer. 	<ul style="list-style-type: none"> • Check connections. • Find another place for the unit or change connections.
<ul style="list-style-type: none"> - No sound or bad sound on headphones. 	<ul style="list-style-type: none"> - Level control set to 'MIN' position. - Headphones plug is dirty. 	<ul style="list-style-type: none"> • Set level control. • Clean plug.
<ul style="list-style-type: none"> - Volume is too low. 	<ul style="list-style-type: none"> - Sound level has been adjusted too low with the ▼ VOL(UME) ▲ on the remote control. 	<ul style="list-style-type: none"> • Adjust sound level.
<ul style="list-style-type: none"> - Remote control does not function. 	<ul style="list-style-type: none"> - Batteries are dead. 	<ul style="list-style-type: none"> • Replace the batteries.
<ul style="list-style-type: none"> - Remote control commands are not properly received 	<ul style="list-style-type: none"> - The distance between remote control and CD changer is larger than 33 feet. 	<ul style="list-style-type: none"> • Reduce the distance between remote control and CD changer.

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