

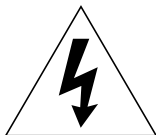
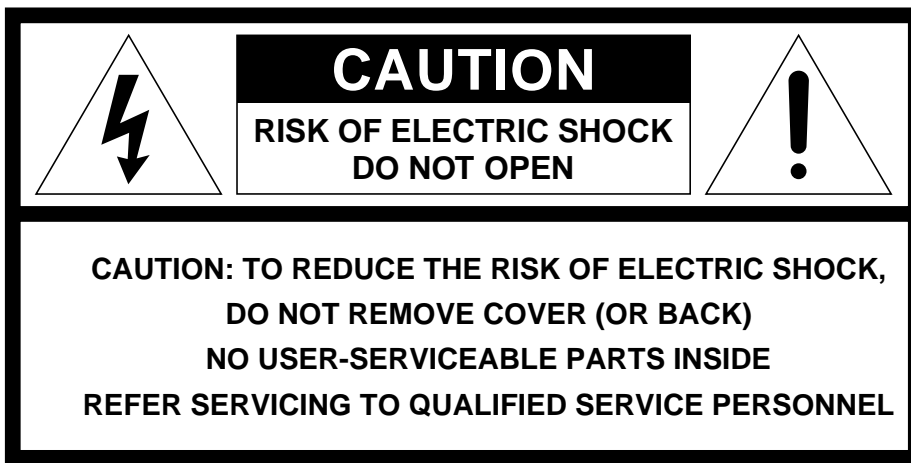
marantz®

Model CD110 User Guide

CD Player

CLASS 1 LASER PRODUCT
KLASSE 1 LASER PRODUKT
I.H.T. IEC 825

COMPACT
disc
DIGITAL AUDIO
TEXT



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.

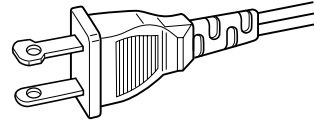
**CAUTION : USE OF CONTROLS OR ADJUSTMENTS
OR PERFORMANCE OF PROCEDURE
OTHER THAN THOSE SPECIFIED HEREIN
MAY RESULT IN HAZARDOUS RADIATION
EXPOSURE.**

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 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, wash-bowl, 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. 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.
8. Wall or Ceiling Mounting — The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
9. 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.
10. Heat — The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
11. 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.
12. Grounding or Polarization — The precautions that should be taken so that the grounding or polarization means of an appliance is not defeated.



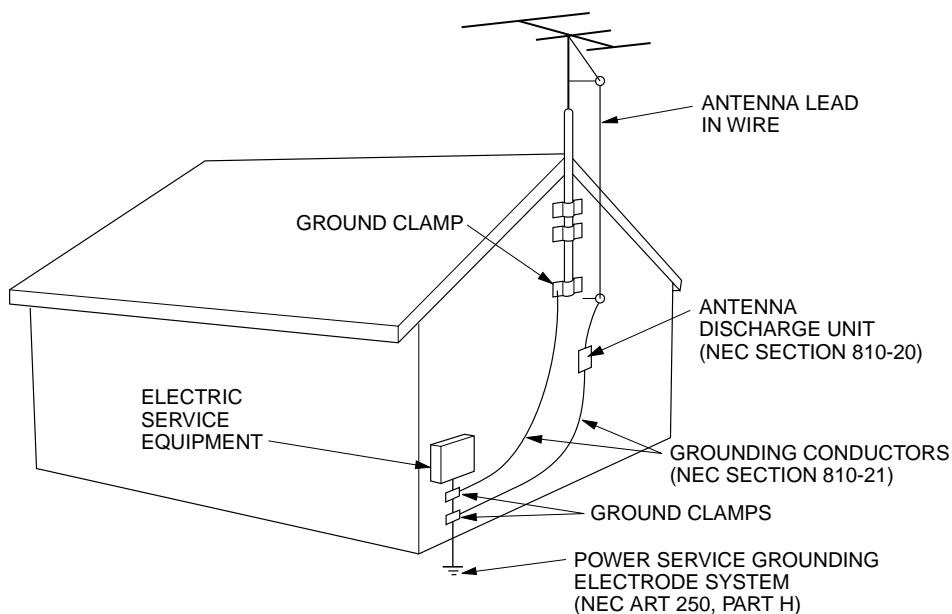
AC POLARIZED PLUG

13. 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 they exit from the appliance.
14. Cleaning — The appliance should be cleaned only as recommended by the manufacturer.
15. Power Lines— An outdoor antenna should be located away from power lines.
16. 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 conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Fig. 1.
17. Nonuse Periods — The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
18. Object and Liquid Entry — Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
19. 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.
20. 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.



FIGURE 1

EXAMPLE OF ANTENNA GROUNDING ACCORDING TO NATIONAL ELECTRICAL CODE INSTRUCTIONS CONTAINED IN ARTICLE 810 - "RADIO AND TELEVISION EQUIPMENT"



NEC - NATIONAL ELECTRICAL CODE

NOTE TO CATV SYSTEM INSTALLER:

This reminder is provided to call the CATV (Cable-TV) system installer's attention to Article 820-40 of the NEC, which 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.

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:

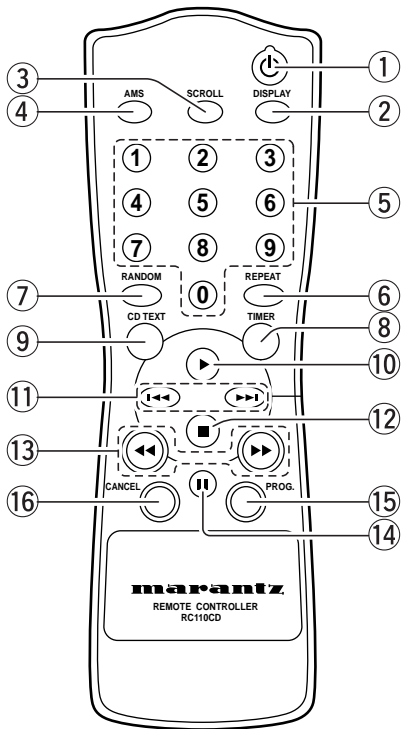
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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.

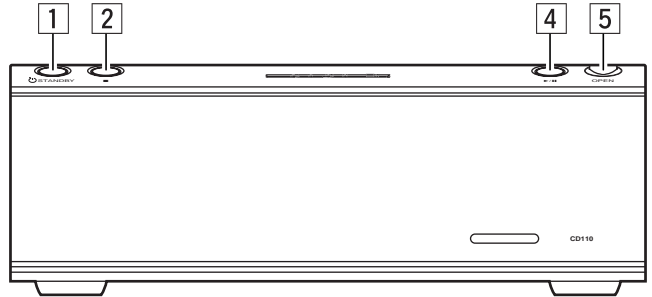
This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la Classe B est conforme à la norme NMB-003 du Canada.

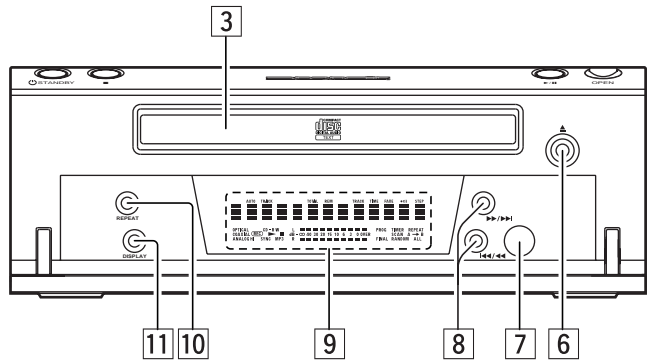
REMOTE CONTROL UNIT



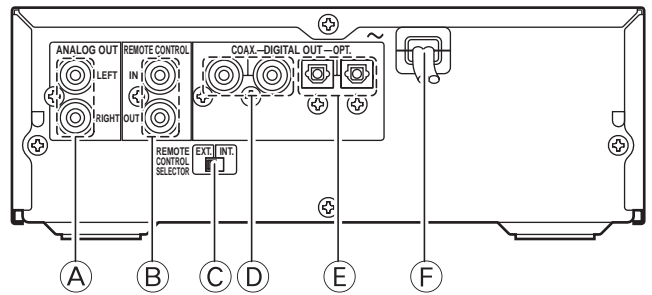
MAIN UNIT (FRONT - CLOSED)



MAIN UNIT (FRONT - OPENED)



MAIN UNIT (REAR)



ABOUT THIS USER GUIDE

Refer to the figures on page iv of this user guide. The numbers on the figures correspond to those in the text. All references to the connections and controls that are printed in **BOLD** type are as they appear on the unit.

PRECAUTIONS

The following precautions should be taken when operating the equipment.

GENERAL PRECAUTIONS

When installing the equipment ensure that:

- the ventilation holes are not covered.
- air is allowed to circulate freely around the equipment.
- it is placed on a vibration-free surface.
- it will not be exposed to excessive heat, cold, moisture or dust.
- it will not be exposed to direct sunlight.
- it will not be exposed to electrostatic discharges.

In addition, never place heavy objects on the equipment.

If a foreign object or water does enter the equipment, contact your nearest dealer or service center.

Do not pull out the plug by pulling on the mains lead; grasp the plug.

It is advisable when leaving the house, or during a thunderstorm, to disconnect the equipment from the mains supply.

COMPACT DISCS

The glossy side shining like a rainbow is the front side of the disc, and the side on which the label is printed is the back.

Unlike conventional turntables for playing analog discs, the CD110 Compact Disc Player reads the information recorded on the disc from underneath without contacting it using a beam of laser light. Therefore, the performance of a compact disc will not degrade like conventional analog records.

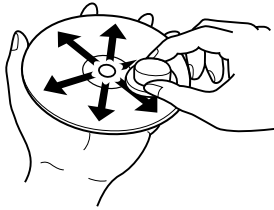
Handle discs carefully so as not to damage or scratch the front side.

To protect the disc, avoid placing it in the following locations:

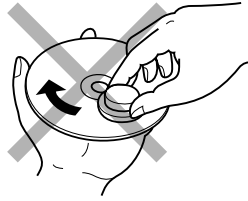
- In direct sunlight or near a source of heat like a heater.
- In a place which is damp or dirty.
- In a place which could be exposed to rain, such as near a window.

Always keep the disc surface clean.

Up to six billion data units are recorded on the front side of the disc. When cleaning the disc surface, always be sure to use a special compact disc cleaner and wipe as shown below.



Wipe in a radial direction.

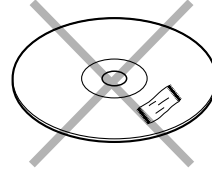


Do not wipe in circumferential direction.

- Do not use conventional record cleaner for analog records, as this will adversely affect the disc surface. Store discs properly by placing them in their disc cases.

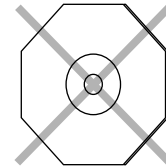
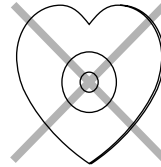
- Do not attach a piece of paper or sticker on the label side of disc.

When a disc has a piece of plastic tape or rental CD label with paste protruded from the edge or when a disc has a trace of such a sticky object, do not attempt to play the disc. If such a disc is played on the CD player, impossibility of taking out the disc or other malfunction may result.



- Do not use a disc with a special shape.

Do not attempt to play a disc with a special shape such as a heart-shaped disc or octagonal disc. Otherwise the equipment malfunction may result.



REMOTE CONTROL UNIT

① (Standby) button

Press to turn the unit's power on or set it to the standby mode. (Operation is not possible if the unit is connected to the SR110, the SR110's rear switch is set to SYSTEM and the CD110's REMOTE CONTROL SELECTOR EXT/INT switch is at EXT.)

② **DISPLAY** button

Press to change what is shown on the display from the disc information to the clock display, etc. (The clock display appears only when the unit is used on its own.)

③ **SCROLL** button

Press to scroll the text display of discs that support text.

④ **AMS** button

Press to play the first 10 seconds of all the tracks on the disc in sequence starting with the first track.

⑤ **Numeric** buttons

Press to specify track numbers directly. These buttons cannot be used with MP3 discs.

⑥ **REPEAT** button

Press for repeat play. Each time the button is pressed, the mode changes in the following sequence:
All track repeat $\overline{\text{fi}}$ 1-track repeat $\overline{\text{fi}}$ clear.

⑦ **RANDOM** button

Press for random play to play the tracks in a random sequence.

⑧ **TIMER** button

Press to set the timer and clock. (These settings can be performed only when the unit is used on its own.)


⑨ **CD TEXT** button


Press to switch what is shown on the display from disc information to text when a CD-TEXT compatible disc is used.

⑩ (Play) button

Press to start play.

⑪ buttons


 : Press to play from the start of the track now playing. When they are pressed again within 1 second after it was pressed the first time, play starts from the track before.


 : When pressed once, play starts from the next track.

⑫ (Stop) button

Press to stop disc play.

⑬ buttons

 : Press to forward-search through the track now playing.

 : Press to reverse-search through the track now playing. These buttons cannot be used during MP3 disc play.

⑭ (Pause) button

Press to stop disc play temporarily.

⑮ **PROG.** button

Press for program play.

This button cannot be used with MP3 discs.

⑯ **CANCEL** button

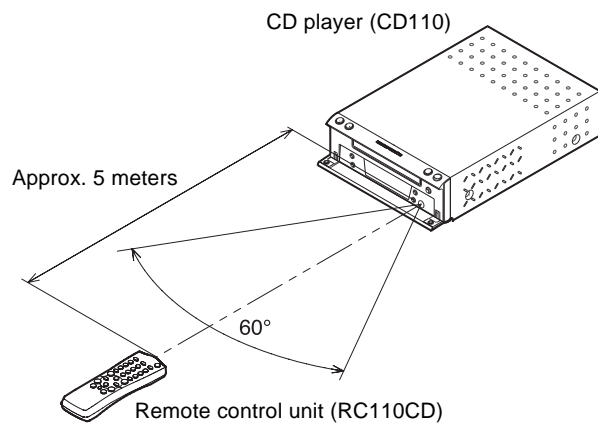
Press to cancel a programmed track.

OPERATION OF REMOTE CONTROL UNIT

1. REMOTE CONTROL

The distance between the transmitter of the remote control unit and the IR SENSOR of the CD110 should be less than about 5 meters. If the transmitter is pointed to a direction other than the IR SENSOR or if there is an obstacle between them, remote control may not be possible.

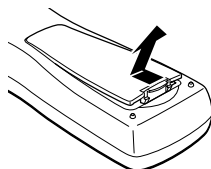
Remote-controllable range



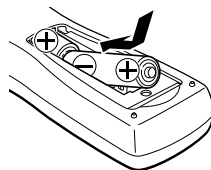
2. LOADING BATTERIES

The life of the batteries used with the remote control unit is about 6 months with normal use. Also be sure to replace batteries earlier when you notice that they are getting weak.

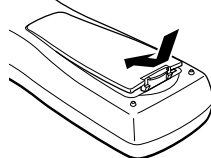
1. Remove the back cover.



2. Insert the new batteries (AA type) with correct (+) and (-) polarity.



3. Close until it clicks.



REAR PANEL

A ANALOG OUT jacks

These are the output jacks for the analog audio signals. Connect them to the **CD** or **AUX** jacks, etc. on the amplifier using the supplied analog connecting cord. Remember that the white jack is for the LEFT channel and the red jack is for the RIGHT channel, and connect the jacks correctly.

* Never connect these jacks to the **PHONO** jacks of the amplifier.

B REMOTE CONTROL IN/OUT jacks

The remote control operations of a system can be performed by connecting the unit to a Marantz D-BUS compatible audio component using the supplied remote control cable.

C REMOTE CONTROL SELECTOR EXT./INT. switch

When the unit is to be used on its own, set this selector to "INT", and when connecting the unit to Marantz audio components equipped with a D-BUS compatible remote sensor window using the remote control cable for use as part of a system, set the selector to "EXT".

* Remote control operations cannot be performed if the **REMOTE CONTROL SELECTOR** is set to "EXT" when the unit is to be used on its own.

D DIGITAL OUT COAX. jacks

The CD signals during playback are output digitally to these jacks. Connect these jacks to a recorder component, amplifier, D/A converter or other unit equipped with coaxial digital input jacks using a coaxial cable obtainable from your audio dealer.

E DIGITAL OUT OPT. jacks

The CD signals during playback are output digitally to these jacks. Connect these jacks to a recorder component, amplifier, D/A converter or other unit equipped with optical digital input jacks using a square optical cable obtainable from your audio dealer.

F Power cord jack

Connect this to a household AC 120 V outlet.

FRONT PANEL

1 Standby button

Press to switch the power ON, and press again to switch it OFF.

* If the SR110 is connected to the REMOTE CONTROL jacks on the rear panel and its power is ON, the unit will not be set to the standby mode even when this button is pressed.

2 (Stop) button

Press to stop play.

3 Disc tray

Place a disc on the tray with its label surface facing up.

4 (Play/Pause) button

Press to start play or temporarily stop play.

5 OPEN button

Press to open the front panel.


6 (Open/Close) button


When this button is pressed, the disc tray opens so place the disc on the tray with its label surface facing up. When it is pressed again the disc tray closes.

7 Infrared sensor

This sensor is for receiving signals transmitted from the remote control unit.

8 (Track search/Skip) buttons

 : When pressed once, play starts from the next track. When held down for more than one second, the track being played is searched in the forward direction.

 : When pressed once, play resumes from the start of the track now playing. When it is pressed again within 1 second after it was pressed the first time, play starts from the track before. When held down for more than one second, the track being played is searched in the reverse direction.

9 Display panel

This panel displays the operating modes and statuses.

10 REPEAT button

Press for repeat play. Each time the button is pressed, the mode changes in sequence from "1-track repeat" fi "all track repeat" fi "clear."

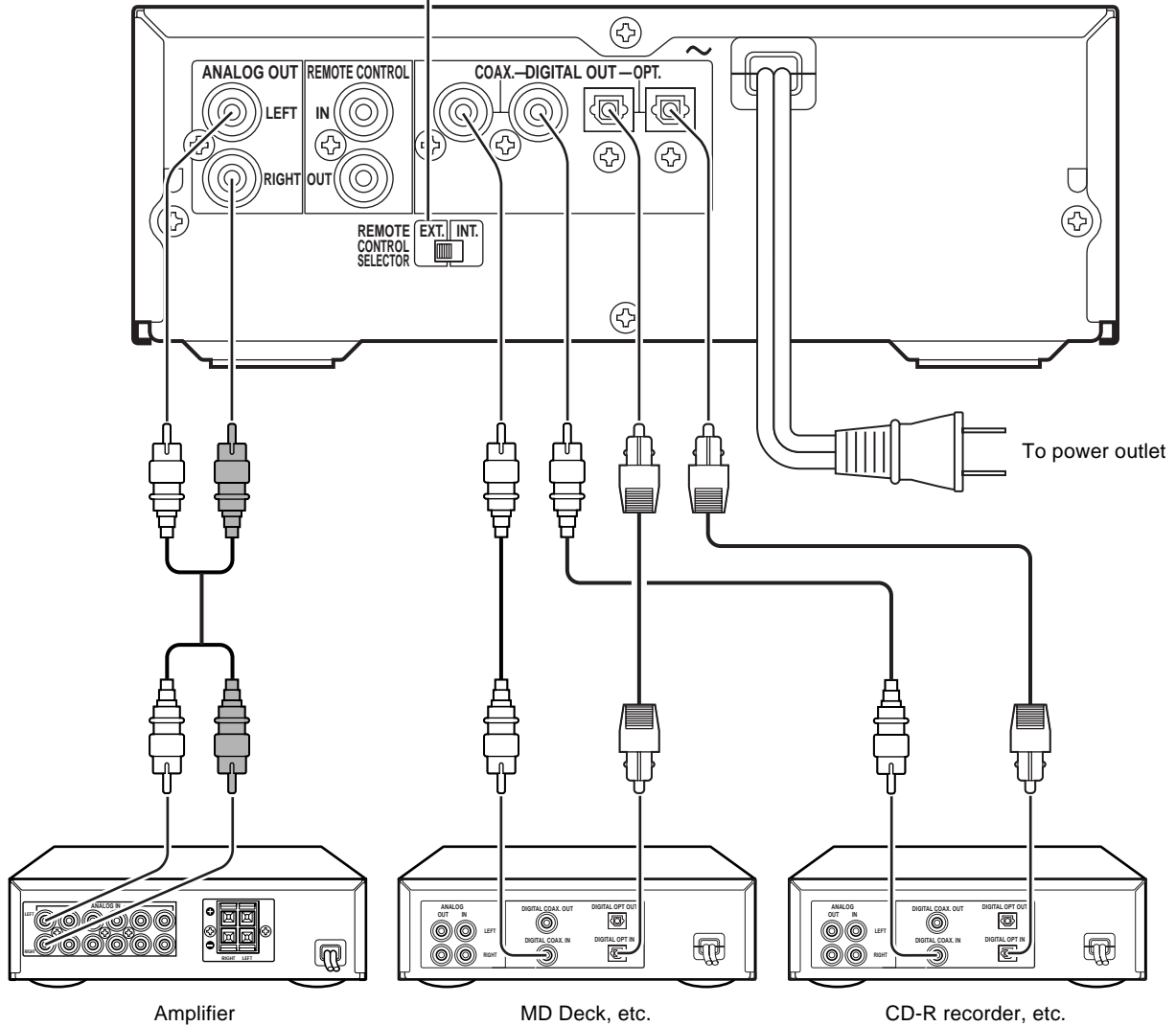
11 DISPLAY button

Press to select the time display. Each time the button is pressed during play, the display changes in sequence from "elapsed track time" fi "remaining track time" fi "total remaining time" fi "clock display" (when the unit is used on its own) fi "elapsed track time." If this button is pressed in the standby mode when the unit is being used on its own, the power-on mode is established for 10 seconds, during which time the clock display appears.

CONNECTIONS

When this unit is to be used on its own, set the **REMOTE CONTROL SELECTOR** to INT, and when connecting the unit to Marantz audio components equipped with a D-BUS compatible remote sensor window using the remote control cable for use as part of a system, set the **REMOTE CONTROL SELECTOR** to EXT.

* Remote control operations cannot be performed if the **REMOTE CONTROL SELECTOR** is set to EXT when this unit is to be used on its own.



* If this unit is to be used as part of a system, refer to the SR110 User Guide.

CONCERNING CD-TEXT

A new type of music CD produced by recording the album name, track names and other text information as well as music on a conventional CD is called CD-TEXT.

The text information is recorded on parts which were not used by conventional music CDs. For this reason, these CDs can be still played back on existing CD players as in the past whereas if a CD-TEXT compatible player such as this unit is used instead, their text information can be viewed as well.

Using the accessory remote control unit, this unit enables the album names and track names to be shown on the display window. Depending on the disc, however, not all the information may have been recorded.

- With this unit, up to 13 characters of this information can be displayed at one time. If the disc has more text information, the characters are scrolled (see *) from right to left facing the display window.

* Scrolling means moving through the text which is being displayed.

- This unit supports only alphanumerics and symbols: Chinese characters ('kanji'), hiragana and katakana are not displayed. (Nothing appears on the display when the text information consists solely of Chinese characters, hiragana and katakana.)

By pressing the CD TEXT button on the remote control unit, the following items of TEXT information on a CD-TEXT disc can be displayed in sequence.

– During play:

Each time the button is pressed, what is displayed is switched between the name of the track being played and the time.

– In the stop mode:

Each time the button is pressed, what is displayed is switched between the album's title and the time.

CONCERNING CD-RW DISC PLAY

In addition to conventional music CDs and CD-R (Recordable) discs, this unit can also play CD-RW (ReWritable) discs.

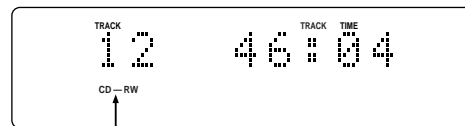
- The TOC (see *) must have been recorded correctly for CD-R or CD-RW playback. Writing the TOC information using a CD recorder is known as finalizing. Bear in mind that if the finalizing work has not been completed correctly for a disc, the disc will not be recognized correctly as a music CD by a regular CD player and will not be played. For further details, refer to the Instruction Manual of the CD recorder.

* TOC stands for table of contents which consists of the total number of tracks on a disc, the total play time and other data.

- Playable discs include only those discs recorded in the CD-DA format for music applications. Do not attempt to play CD-ROMs for personal computers and other discs on which data has been recorded.

- Since some of the player's settings are changed when a CD-RW disc is played, it may take a little longer to read the TOC than a music CD or CD-R disc.

- "CD-RW" appears on the display when a CD-RW disc is recognized.



This lights.

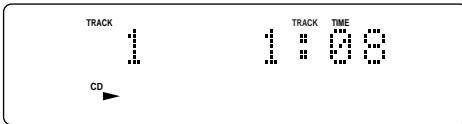
- In some cases, due to compatibility issues, it may not be possible to play a CD-R(W) disc that has been finalized. (This problem frequently occurs when material that was recorded at 2x is played back and recorded at 2x yet again.)

CD PLAY

- Press the **⏻** button **①/1** to switch on the power.
* The CD110's power will also be switched on if the SR110 is connected to the **REMOTE CONTROL** jack and the SR110's power is on.
- Press the **OPEN** button **⑤** to open the panel.



- Press the **▲** button **⑥**.
The disc tray is now extended so place the disc on the tray with its label surface facing up.
- Press the **▲** button **⑥**.
- Press the **▶/⏸** button **④** on the main unit or the **▶** button **⑩** on the remote control unit. If track 1 has been playing for 1 minute and 8 seconds, for instance, the following will appear on the main display during play.



Play stops automatically when the last track has been played.

TO PLAY THE DISC AGAIN STARTING FROM THE FIRST TRACK

Press the **▶/⏸** button **④** on the main unit or the **▶** button **⑩** on the remote control unit.

TO STOP PLAY

Press the **■** button **⑫/2**.

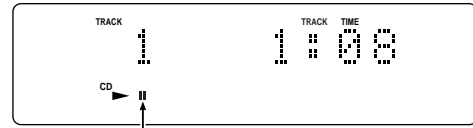
TO REMOVE THE DISC

Press the **▲** button **⑥** to open the disc tray, remove the disc, and press the button again to close the disc tray. Keep the disc tray closed without fail when the unit is not going to be used.

TO TEMPORARILY STOP PLAY

Press the **▶/⏸** button **④** on the main unit or the **⏸** button **⑭** on the remote control unit.

The pause indicator (**⏸**) lights, and the disc play is temporarily stopped where the button was pressed.



This lights.

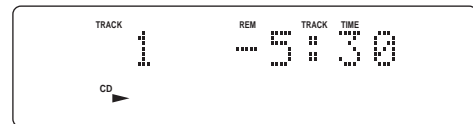
To resume play, press the **▶/⏸** button **④** on the main unit or the **▶** **⑩** or **⏸** **⑭** button on the remote control unit.

TO SWITCH THE TIME DISPLAY

Press the DISPLAY button during play. Each time this button is pressed, the display changes in sequence from "elapsed track time" \rightarrow "remaining track time" \rightarrow "total remaining time" \rightarrow "clock display" (when the unit is used on its own) \rightarrow "elapsed track time."

● Remaining track time

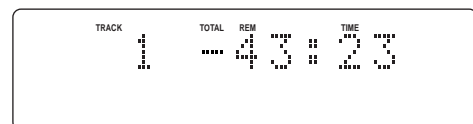
(Remaining play time from the part of the track now playing to the end of the same track)



When playing a disc that contains more than 30 tracks, the "--:--" will be displayed as the remaining track time for track 31 and subsequent tracks.

● Total remaining time

(Remaining play time from the part of the track now playing to the end of the last track on the disc)



SEARCHING/SKIPPING

DIRECT SEARCH (SPECIFYING THE NUMBER OF A DESIRED TRACK AND PLAYING IT)

- Specify the track number using the numeric buttons (0 to 9).
Track 3 : Press numeric button "3."
Track 12 : Press numeric button "1" and then numeric button "2" within two seconds.
* This operation does not work with MP3 discs.
- Press the **▶/||** button **[4]** on the main unit or the **▶** button **[10]** on the remote control unit.

TRACK SKIPPING (◀◀, ▶▶)

TO HEAR ONE OF THE TRACKS AFTER THE ONE NOW PLAYING

Press the **▶▶/▶▶|** button **[8]** on the main unit or the **▶▶|** button **[11]** on the remote control unit for the same number of times as the number of tracks to be skipped.

TO HEAR ONE OF THE TRACKS PRECEDING THE ONE NOW PLAYING

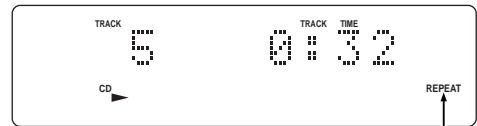
Press the **|◀◀/◀◀** button **[8]** on the main unit or the **|◀◀** button **[11]** on the remote control unit for the same number of times as the number of tracks to be skipped.

* When the **|◀◀/◀◀** button **[8]** or **▶▶/▶▶|** button **[8]** on the main unit is held down for more than one second, the track now playing is searched in the reverse or forward direction.

REPEAT PLAY

1-TRACK REPEAT (REPEATED PLAYBACK OF ONE TRACK ONLY)

Press the **REPEAT** button **[6/10]** once while the track you want to repeat is playing.
The "REPEAT" indicator lights, and the track is played repeatedly.



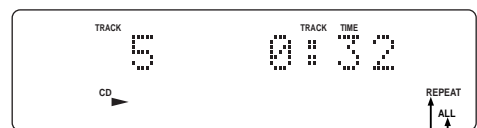
This lights.

TO RETURN TO NORMAL PLAY

Press the **REPEAT** button **[6/10]** twice. The "REPEAT" indicator goes off, the repeat mode is cleared, and normal play is restored.

ALL TRACK REPEAT (REPEATED PLAYBACK OF ALL TRACKS ON THE DISC)

When the **REPEAT** button **[6/10]** is pressed twice, the "REPEAT" and "ALL" indicators light, and all the tracks are played repeatedly.



These light.

TO RETURN TO NORMAL PLAY

Press the **REPEAT** button **[6/10]** once. The "REPEAT" and "ALL" indicators go off, the repeat mode is cleared, and normal play is restored.

* When all track repeat is selected after programming, only the tracks selected will be played repeatedly.

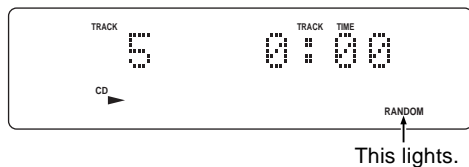
The all track repeat mode remains established at all times with MP3 discs. The "ALL" indicator does not light in this case. Only 1-track repeat can be selected.

Note:

If the **RANDOM** **[7]** or **AMS** **[4]** button is pressed during repeat play, the repeat play setting is cancelled.

RANDOM PLAY

When the **RANDOM** button ⑦ is pressed during play or stop, the unit automatically rearranges the sequence of the tracks and plays all the tracks in the resulting random order. This lights.



* If the **RANDOM** button ⑦ is pressed with a disc placed on the disc tray while the tray is open, the disc tray will close and random play will begin.

TO STOP RANDOM PLAY AND RETURN TO NORMAL PLAY

Press the **RANDOM** button ⑦ again.

TO MOVE TO THE NEXT TRACK IN THE RANDOM SEQUENCE

Press the **▶▶/▶▶|** button ⑧ on the main unit or **▶▶** button ⑪ on the remote control unit.

Each time one of these buttons is pressed, operation moves to the next track in the random sequence and starts playing it.

TO SEARCH FOR A SECTION OF THE TRACK NOW PLAYING

During random play, either hold down the **◀◀/◀◀** or **▶▶/▶▶** button ⑧ on the main unit for at least 1 second or hold down the **◀◀** or **▶▶** button ⑬ on the remote control unit.

The search operation will not move to a track before or after the track now playing.

TO REPEAT RANDOM PLAY

Press the **REPEAT** button ⑥/⑩ twice. The "REPEAT" and "ALL" indicators light on the display, and the same tracks are played repeatedly each time in a different random order.

* If the **AMS** button ④ is pressed during random play, the random play setting is cancelled.

Note

If the **RANDOM** button ⑦ is pressed when an MP3 disc is being played, the "RANDOM" indicator lights and random play applies only to the files in the directory that is being played back.

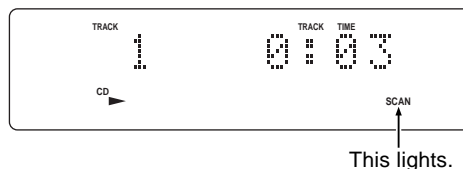
If the "RANDOM" and "ALL" indicators light, random play applies to the files in all the directories.

AMS PLAY

When the **AMS** button ④ is pressed with a regular CD in the stop mode, the "SCAN" indicator lights, and the first ten seconds of each track on the disc starting from the first track are played in succession.

If the **AMS** button ④ is pressed during play, the first ten seconds of each track on the disc starting from the track now playing are played in succession.

This function comes in handy for finding particular tracks to be played.



Once the track to be played has been found, press the **AMS** button ④ again. The "SCAN" indicator goes off, and all the tracks starting with the located track are played in the normal play mode.

* If the **RANDOM** button ⑦ is pressed during AMS play, the AMS play setting is cancelled.

Note

If the **AMS** button ④ is pressed when an MP3 disc is being played, the "AMS" indicator lights and AMS play applies only to the files in the directory that is being played back.

If the "AMS" and "ALL" indicators light, AMS play applies to the files in all the directories.

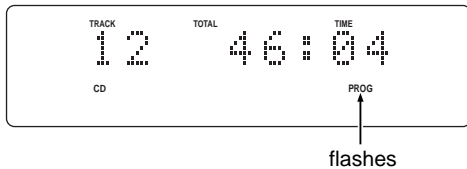
PROGRAM PLAY

LISTENING TO FAVORITE TRACKS IN A FAVORITE ORDER

This function cannot be used with MP3 discs.

- Random play cannot be used with program play.
- AMS cannot be used with program play.

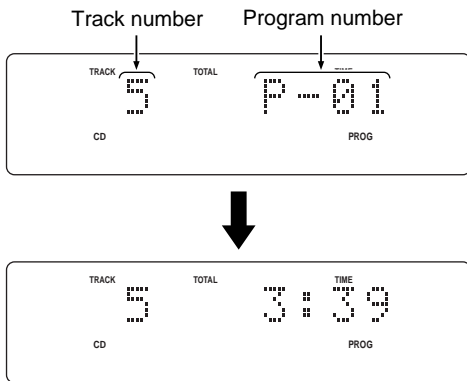
1. When the **PROG.** button ⑮ is pressed in the stop mode, the "PROG" indicator flashes, and the program mode is established.



2. Select the tracks to be programmed using the numeric buttons or ◀◀ and ▶▶ buttons ⑪ on the remote control unit. (They can also be selected using the ◀◀/◀◀ and ▶▶/▶▶ buttons ⑧ on the main unit.)
When the tracks are to be selected using the ◀◀ and ▶▶ buttons ⑪ on the remote control unit (or ◀◀/◀◀ and ▶▶/▶▶ buttons ⑧ on the main unit), first select the tracks, and then press the **PROG.** button ⑮.

* To input a 2-digit track number to select a track using the numeric buttons, first input the 10's digit and, within 2 seconds, input the 1's digit.

(Example: When selecting track number 5 as the first track and its play time is 3 min. 39 sec.)



3. Then, repeat step 2 for the next track and so on to program up to 30 tracks.
4. Upon completion of all the programming, press the ▶ button ⑩.
The selected tracks are now played in the programmed order.

Note:

- If track 31 or higher is included in a program, the time display will read "--:--" from that point on.
- If the program total time exceeds 99 minutes, the time display will read "--:--".

TO CHECK THE PROGRAM CONTENTS

Press the **PROG.** button ⑮ during programming. Each time this button is pressed, the tracks will be displayed one after the other in the sequence in which they were programmed.

TO CLEAR A PROGRAMMED TRACK

Press the **CANCEL** button ⑯ during programming. Each time this button is pressed, the tracks will be deleted one at a time in sequence starting with the one programmed last.

TO CLEAR THE ENTIRE PROGRAM

To clear the entire program, either press the ▲ button ⑥ on the main unit, or else press the **CANCEL** button ⑯ on the remote control unit three times.

TO ADD TO THE PROGRAM

Select the track or tracks to be added using the numeric buttons or the ◀◀ and ▶▶ buttons ⑪ on the remote control unit (or ◀◀/◀◀ and ▶▶/▶▶ buttons ⑧ on the main unit) while the unit is in the stop mode (while "PROG" is lighted) when there is room for more tracks in the program.

To select a track using the ◀◀ and ▶▶ buttons ⑪ on the remote control unit (or ◀◀/◀◀ and ▶▶/▶▶ buttons ⑧ on the main unit), first select the track, and then press the **PROG.** button ⑮.

- The newly added track is added to the end of the program.
- If, when using the numeric buttons to select tracks 1 through 9 on a disc with 10 or more tracks in total, track number 3 is to be selected after track number 1, for example, first press the numeric button "1" and then wait at least 2 seconds before pressing "3."
- When selecting track number 10 or higher such as track number 13, first press the numeric button "1" and then press "3" before allowing 2 seconds to elapse.
- When using the ◀◀ and ▶▶ buttons ⑪ on the remote control unit (or ◀◀/◀◀ and ▶▶/▶▶ buttons ⑧ on the main unit) for programming, first select the number of the desired track, and then press the **PROG.** button ⑮ to enter it.

REPEAT DURING PROGRAM PLAY


If all track repeat is selected, all of the tracks in the program are repeated, not all of the tracks on the disc.

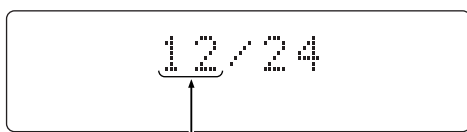
USING THE TIMER FUNCTIONS

This unit enables a time to be set and for a disc to be played at this setting. The clock must always be set for the timer functions to be valid.









* These functions work only when the unit is used on its own. The SR110's timer functions are used when the unit is operating as part of a system with the SR110.

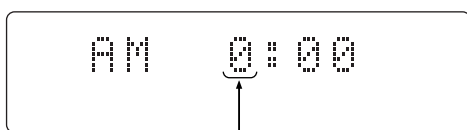
SETTING THE TIME

1. Press the **TIMER** button  on the remote control unit for at least 3 seconds. "12/24" now appears on the display, and "12" starts flashing.











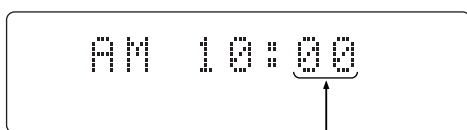
This flashes.

2. Select the 12-hour or 24-hour time display using the  and  buttons  on the remote control unit or the  and  buttons  on the main unit.
3. Press the  button  to enter the selection. The time now appears on the display, and the hour flashes. (Hour setting)











This flashes.

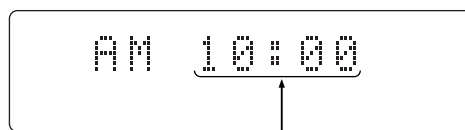
4. Set the current hour using the  and  buttons  on the remote control unit or the  and  buttons  on the main unit.
5. Press the  button  to enter the selection. The time now appears on the display, and the minute flashes. (Minute setting)



This flashes.

6. Set the current minutes using the  and  buttons  on the remote control unit or the  and  buttons  on the main unit.

7. Press the  button  to enter the selection. The time set on the display now flashes. (Second setting) This flashes.



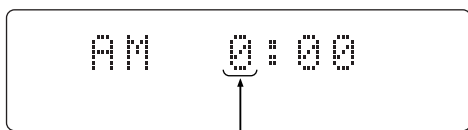
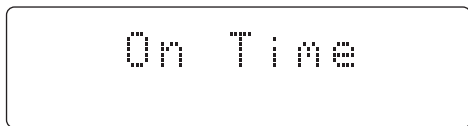
This flashes.

8. Finally when the stop button on the remote control unit is pressed, the time starts from 00 seconds. The entered time appears for 3 seconds, and then the original display is restored.

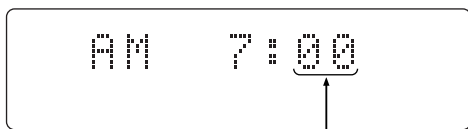
TIMER PLAYBACK

A CD can be played at a specific time by setting the playback time. The ON time and OFF time are set for timer playback.

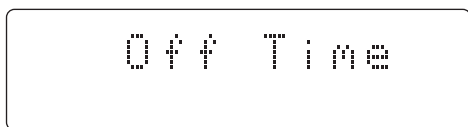
1. Press the **TIMER** button ⑧ on the remote control unit once. On the display, "On Time" appears first followed by the time, and the hour flashes. (Playback ON hour setting)



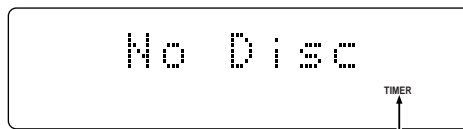
2. Set the playback ON hour using the ◀◀ and ▶▶ buttons ⑪ on the remote control unit or the ◀◀/◀◀ and ▶▶/▶▶ buttons ⑧ on the main unit.
3. Press the ■ button ⑫/⑫ to enter the selection. The hour input appears on the display, and the minute flashes. (Playback ON minute setting)



4. Set the playback ON minute using the ◀◀ and ▶▶ buttons ⑪ on the remote control unit or the ◀◀/◀◀ and ▶▶/▶▶ buttons ⑧ on the main unit.
5. Press the ■ button ⑫/⑫ to enter the selection. On the display, "Off Time" appears first followed by the time, and the hour flashes. (Playback OFF hour setting)



6. Next, the playback OFF time is set. Repeat steps 2 through 5 to set the hour and minute. Upon completion of the settings, the timer setting mode is cleared automatically.



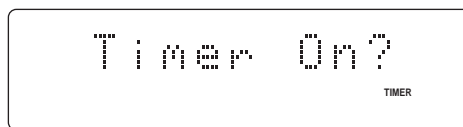
This lights.

7. Press the ▲ button ⑥ on the main unit to extend the disc tray, place the disc on the tray, and close the tray.
8. Set the ⏻ button ①/① on the unit to off. The button now lights up orange.

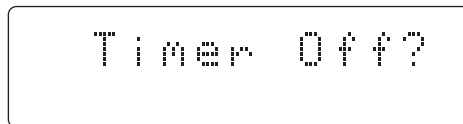
SETTING AND CLEARING TIMER PLAYBACK

1. Press the **TIMER** button ⑧ on the remote control unit twice. "Timer Off" or "Timer On" appears on the display.
2. Switch from "Timer On" and "Timer Off" or vice versa using the ◀◀ and ▶▶ buttons ⑪ on the remote control unit or the ◀◀/◀◀ and ▶▶/▶▶ buttons ⑧ on the main unit.

- Select "Timer On" to set timer playback.



- Select "Timer Off" to clear timer playback.



3. Press the ■ button ⑫/⑫ to enter the selection.

Important

Timer playback cannot be set if "No Disc", "Error Disc" or "Blank Disc (CD-R(W))" is displayed.

CONCERNING MP3

This unit is capable of playing MP3-CDs and CDR or CD-RW discs with MP3 files created by the user. For playing CDR or CD-RW discs with MP3 files, the ".mp3" extension is used to save the data created by the user in files. Other extensions such as ".doc," ".txt" and ".pdf" cannot be used. This unit is not capable of digitally recording MP3 files.

MP3 PLAYBACK

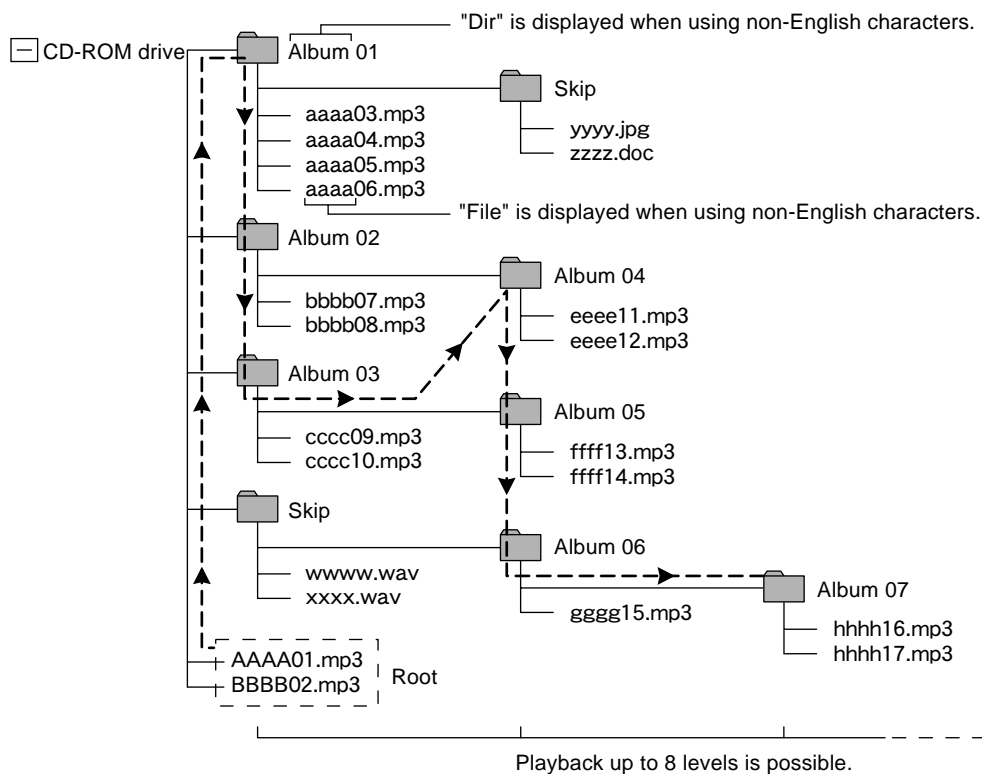
1. Press the button ①/1 to switch on the power.
 - * The CD110's power will also be switched on if the SR110 is connected to the remote control jack and the SR110's power is on.
2. Press the **OPEN** button ⑤ to open the panel.
3. Press the button ⑥. The disc tray is now extended so place the disc on the tray with its label surface facing up.
4. Press the button ⑥. Alternatively, push the front of the disc tray gently.
5. Press the button ④ on the main unit or the button ⑩ on the remote control unit. Playback commences in sequence from the first album. (See figure below) Press the button ⑩ again to play a track.

SELECTING ALBUMS

1. Select the desired album using the /⑧ and /⑨ buttons ⑧ on the main unit or the and buttons ⑪ on the remote control unit.
2. Press the button ④ on the main unit or the button ⑩ on the remote control unit. Playback now starts in sequence starting from the selected album. Press the button ⑩ again to play a track.

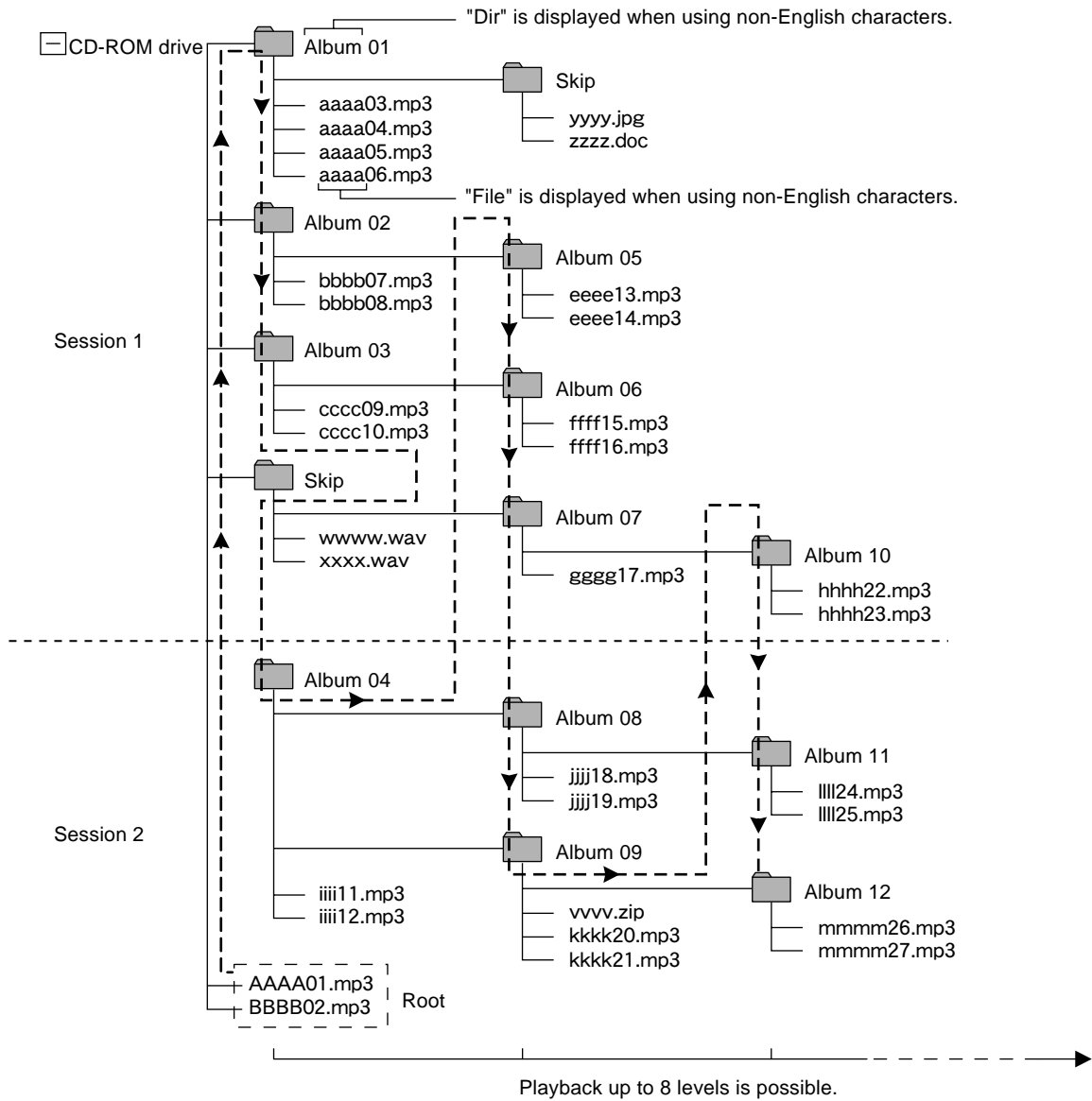
EXAMPLE OF PLAYBACK SEQUENCE

When there is just the one session
(Figure showing what is displayed by Windows Explorer)



- The dotted lines (- → -) with arrows indicate the MP3 album and track playback sequence.
- Album 01 - album 07
In the example shown in the figure, the CD-ROM has seven MP3 albums.
- AAAA01.mp3 - mmmm17.mp3
In the example shown in the figure, the CD-ROM has 17 tracks: "01" is the first track and "17" is the last one.
- Only files with the ".mp3" extension are played: files with extensions such as ".wav," ".jpg" and ".doc" are skipped.

When there are multiple sessions
(Figure showing what is displayed by Windows Explorer)



- Even when there are multiple sessions, playback is still performed in hierarchical sequence starting from the top level.
- The dotted lines with arrows (- -> -) indicate the MP3 album and track playback sequence.
- Album 01 - album 012
 In the example shown in the figure, the CD-ROM has twelve MP3 albums.
- AAAA01.mp3 - mmmm27.mp3
 In the example shown in the figure, the CD-ROM has 27 tracks: "01" is the first track and "27" is the last one.
- Only files with the ".mp3" extension are played: files with extensions such as ".wav," ".jpg" and ".doc" are skipped.
- With the CD110 compact disc player, the playback sequence may differ from the one displayed on the PC screen as shown above. (It may also vary depending on the writing software program.)

TROUBLESHOOTING

If you believe that a malfunction has occurred, first check the points listed below. The problem may have been caused by a simple operational error or a connection problem. If the problem is not solved even after carrying out the following checks, consult your dealer or nearest Marantz sales office or service center.

The disc fails to rotate.

- Has the power cord been connected correctly?
- Is the unit's power ON?
- Has the disc been placed in the correct position?
- Has the disc been placed upside down on the tray? (Is the label side of the disc facing up?)
- Is the disc dirty?
- Is the disc scratched?
- Is the disc warped?

The disc rotates but no sound is heard.

- Have the amplifier and speaker been connected correctly?
- Is the amplifier's power ON?
- Has the amplifier's function or selector switch been set to "CD" or "AUX" (to the position corresponding to where you connected the CD110)?
- Is the amplifier's volume control at its lowest setting?

The disc stops rotating in mid-operation.

- Is the disc dirty?
- Is the disc scratched?
- Is the disc warped?

The sound breaks up or noise is heard.

- Is the disc dirty or scratched?
- Is the disc warped?
- Is the CD a music CD? (CD-ROMs for personal computers, DTS-CDs, etc. cannot be played.)

Remote control operation is not possible.

- Is the transmitter of the remote control unit (RC110CD) pointed correctly at the remote sensor of the CD player (CD110)? Are there any obstacles between these two windows?
- Have the batteries in the remote control unit (RC110CD) run down?
- Is there another source of strong light striking the remote sensor window of the CD player (CD110)?
- Is the REMOTE switch on the rear panel set to EXT.?

CD-R or CD-RW discs cannot be played.

- Has the disc been placed wrong side up on the tray?
- Has the finalizing work (TOC writing) been completed correctly?
- Is the format (CD-DA) for music used for the recorded information?

OPERATING PRECAUTIONS

- In the winter you may notice that condensation forms on the window of a well-heated room.

Condensation may also occur inside the CD player in the following situations:

- When the listening room is first heated.
- When the humidity in the room is high.
- When the unit is moved from a cold environment to a warm room.
- If condensation occurs, the number of tracks cannot be read and the CD player may not function properly. If this happens, leave the power ON and wait for about 30 minutes before operating the unit.
- The CD player may interfere with the reception of your tuner or TV set. If this occurs, place the CD player farther away from the tuner or TV.
- The CD player features very little noise compared to analog records, and the noise before actual playback begins is almost inaudible. Therefore, be careful not to set the volume control of the amplifier too high, otherwise other audio components such as the speakers may be damaged when actual playback starts.

CLEANING OF EXTERIOR SURFACES

With proper care and cleaning, the exterior finish of your equipment will last indefinitely. Never use scouring pads, steel wool, scouring powders or harsh chemical agents (e.g. lye solution), alcohol, thinners, benzene, insecticide or other volatile substances, as these will mar the finish of the cabinet. Likewise, never use cloths containing chemical substances. If the equipment becomes dirty, wipe the external surfaces with a soft, lint-free cloth.

If the cabinet becomes heavily soiled:

- dilute some washing-up liquid in water, in a ratio of one part detergent to six parts water;
- dip a soft, lint-free cloth in the solution and wring the cloth out until it is damp;
- wipe the equipment with the damp cloth;
- dry the equipment by wiping it with a dry cloth.

REPAIRS

Only the most competent and qualified service technicians should be allowed to service the equipment. The Marantz company and its factory-trained warranty station personnel have the knowledge and special facilities needed for the repair and calibration of this precision equipment. After the warranty period has expired, repairs will be performed for a charge if the equipment can be restored to normal operation.

In the event of difficulty, consult your dealer or write directly to the nearest location to you that is listed on the Marantz Authorized Service Station list. Please quote the model and serial number of the equipment and give a full description of what you think is abnormal about the equipment's behaviour.

TECHNICAL SPECIFICATIONS

AUDIO CHARACTERISTICS

Channels	2 channels
Frequency range	20Hz-20kHz
Dynamic range	> 90 dB
S/N ratio (WTD)	87 dB
Channel separation (1 kHz)	87 dB
THD (1 kHz)	0.02 %
Wow & flutter	Precision of quartz
Error correction	Cross-interleave read solomon code (CIRC)
Analog output	2.0 V RMS
Digital output (Coaxial)	0.5 Vp-p/75 ohms
Digital output (Optical)	-20 dBm

OPTICAL READOUT SYSTEM

Laser	GaAlAs semiconductor
Wavelength	780 nm

SIGNAL SYSTEM

Sampling frequency	44.1 kHz
Quantization	16-bit linear/channel

GENERAL

Power Supply	AC 120 V 60 Hz
Power Consumption	0.16 A
Dimensions (W · H · D)	8-1/4 · 2-3/4 · 12-3/16 inches (210 · 71.5 · 310 mm)
Net weight	6.8 lbs (3.1 kg)
Operating temperatures	+5 °C ~ +45 °C
Operating humidity	5 % ~ 90 % (without dew)

ACCESSORIES

Remote control unit (RC110CD)	1
Dimensions (W · H · D) MAX	2-1/2 · 7-3/4 · 1 inches (50.5 · 154.5 · 25 mm)
Weight	0.13 lbs (60 g)
AA type Batteries	2
Stereo audio cable	1 pair
Remote cable	1
Warranty Card (USA)	1
Warranty Card (CANADA)	1
User's Guide	1

Specifications subject to change without prior notice.

COUNTRY	COMPANY	ADDRESS
ALGERIE	Azur 2000	8, Lotissement Ben Hatadi, Alger, Algerie
ARMENIA	NGYIG Ltd.	47 A/75 St. Lalaianis, 375000 Yerevan, Armenia
AUSTRALIA	Jamo Australia Pty. Ltd.,	24 Lionel Road, Mt. Waverley, VIC 3149, Australia
AUSTRIA	Huber & Prohaska GmbH	Taborstraße 95 / Ladestraße 1, Gebäude Hangartner, A-1200 Wien, Austria
BAHREIN	Ambassador Stores	P.O. Box 237,141, Government Avenue, Manama,Bahrein
BANGLADESH	Target	1078, Ramjoy Moharja Lane Asadgonj, Chittagong 4000, Bangladesh
BELGIUM	Van der Heyden Audio N.V.	Brusselbaan 278, 9320 Eredebodegem, Belgium
BULGARIA	Ariescommerce GmbH	Makedonia Blvd. 16, 1606 Sofia, Bulgaria
CANADA	Lenbrook Industries Limited	633 Granite Court, Pickering, Ontario
CHINA	Guang Chang Audio International Co., Ltd.	No.38 Yushan Road, ShiQiao, Pan Yu, Guang Dong, China
CYPRUS	Empire Hifi systems Ltd.	P.O. Box 5604, Nicosia, Cyprus
CZECH REPUBLIC	Audio International	Sokolska 41, 67902 Rajecsko, OKR,Blansko, Czech Republic
DENMARK	Audio Nord	Dali Allé 1, 9610 Noerager, Denmark
DUBAI	V.V.& SONS	P.O. Box 105, Dubai, U.A.E.
EGYPT	Solimco	9, El Attibaa St. Doki, Cairo, Egypt
ESTONIA	HiFi Club Estonia	Ehte 4, 90503 Haapsalu, Estonia
F.Y.R.O.M.	T.P. KODI	ul.Cedomir Kantargiev 21a, Skopje, Former Yugoslavian Republic of Macedonia
FINLAND	Audio Nord	Uudenmaankatu 4-6, Helsinki SF-00120, Finland
FRANCE	Marantz France	A division of Marantz Europe B.V., P.O. Box 301, 92 156 Suresnes Cedex, France
GERMANY	Marantz Deutschland	Hakenbusch 3, 49078 Osnabrück, Germany
GREECE	Adamco S.A.	188, Hippocratous Street, 11471 Athens, Greece
HEADQUARTERS EUROPE:	Marantz Europe B.V.	Building SFF-2, P.O. Box 80002, 5600 JB Eindhoven, The Netherlands
HONG KONG	Marantz Asia Ltd.	Unit 1706, Metroplaza II, 223 Hing Fong Road, Kwai Fong, N.T., Kowloon, Hong Kong
HUNGARY	Infovox Ltd.	Terez Krt.31, 1067 Budapest, Hungary
ICELAND	ID Electronics Ltd.	Armula 38, 108 Reykjavik, Iceland
INDIA	NOVA Audio Private	8,Punam Co-op.Society 29/30 Road#5, Union Park MUMBAI 400052, India
IRAN	Home Co.	5th floor no 878 Philips Building Enghelab ave, P.O. 11365/7844 Tehran, Iran
IRELAND	Marantz Ireland	Clonskeagh, Dublin 14, Ireland
ISRAEL	Elmor Ltd.	52 Heh Beiyar Street, Kikar Hamedina, Tel Aviv, Israel
ITALY	Marantz Italy	Via Casati 23, 20052 Monza (Milano), Italy, Servizio Consumatori 1678-20026, Numero Verde
IVORY COAST	Hifivoir	B.P. 2428, Abidjan 01, Ivory Coast
JAPAN	Marantz Japan Inc.	35-1 Sagami Ohno 7-Chome, Sagamihara-shi, Kanagawa 228-8505, Japan
KOREA	Mk Enterprises Ltd.	121-210, 2F Shinhan Bldg., 247-17 Seokyo-dong, Mapo-ku, Seoul, Korea
KUWAIT	alAlamiah Electronics Intl.	P.O. Box 8196, Salmiah 22052, Kuwait
LATVIA	Ace Ltd.	61, LacPlesa Str., Riga LV 1011, Latvia
LEBANON	AZ Electronics S.A., 1,	P.O. Box 11 2833, Beirut, Lebanon
LITHUANIA	Accapella Ltd.	Ausros, Vartu G/5, Pasazo SKG., 2001 Vilnius, Lithuania
MALAYSIA	Wo Kee Hong Electronics Sdn. Bhd.	102 Jalan SS 21/35, Damansara Utama, 47400 Petaling Jaya, Selangordarul Ehsan, Malaysia
MALTA	Doneo Co Ltd.	78 The Strand, Sliema SLM07, Malta
MAURITIUS	SKR Electronics Ltd.	P.O. Box 685, Bell Village, Port Louis, Mauritius
MILITARY MARKET EUROPE	PASCO GmbH	PO BOX 1280, Sandhausen 69200, Germany
NETHERLANDS	Marantz Domestic Sales	A division of Marantz Europe B.V., Building SFF2, P.O. Box 80002, 5600 JB Eindhoven, The Netherlands
NEW ZEALAND	Wildash Audio Systems	14 Malvern Road, Mt. Albert, Auckland, New Zealand
NORWAY	Audio Nord	Sandkerveien 64, Oslo 0483, Norway
OMAN	Mustafa & Jawad Trading CO.	P.O. Box 1918, Ruwi, Oman
POLAND	Philips Polska Sp. z.o.o.	Al.Jerozolimskie 195b, 02 222 Warszawa, Poland
PORTUGAL	Corel2	Comércio de Electrónica Lda., Av. Luis Bivar, No 85 A, 1050 Lisboa, Portugal
PROFESSIONAL EUROPE	Marantz Professional Products	Kingsbridge House, Padbury Oaks, 575-583 Bath Road, Longford, Middlesex UB7 0EH, U.K.
PROFESSIONAL U.S.A.	Marantz Professional Products	Distributed by: Superscope Technologies Inc., 1000 Corporate Blvd. Ste.D, Aurora, Illino
QATAR	Almana & Partners W.W.L.	P.O. Box 49, Doha, Qatar
REUNION	Vision +	180 Rue du Marechal Leclerc, 97400 Saint Denis, Ile de la Reunion
ROMANIA	Nova Music Entertainment	5, Zagazului Str. Bl.1G,apt.18, sector 1,Bucharest, Romania
RUSSIA	Absolute Audio	7/2, Montazhnaya Street, 107497 Moscow, Russia
SAUDI ARABIA	Adawlia Univ. Electr. Apl	P.O. Box 2154, Alkhobar 31952, Saudi Arabia
SINGAPORE	Forward Marketing (S) Pte. Ltd.	Wo Kee Hong Centre, 29 Leng Kee Road, Singapore 159099, Singapore
SLOVAKIA	Bis Audio s.r.o.	Nam. SNP 10, 96001 Zvolem, Slovakia
SLOVENIA	Bofex	Smartinska 152, HALA V/3, 61000 Ljubljana, Slovenia
SOUTH AFRICA	Coherent Imports (PTY) Ltd.	P.O. Box 1614, Alberton, 1450, South Africa
SPAIN	Marantz Spain	Martinez Villergas 2, Apartado 2065, Madrid 28027, Spain
SRI LANKA	The listening Room	Mezzanine Floor, The Landmark 385, Galle Road, Colombo - 3, Sri Lanka
SWEDEN	Audio Nord	Almedalsvagen 4, Gotenborg 402-23, Sweden
SWITZERLAND	Sound Company AG	Postfach, 8010 Zürich, Switzerland
SYRIA	Hamzeh & Partners	Hafez Ibrahim Str. No 117, Damascus Shalan, Syria
TAHITI	Covecolor	Av. Prince Hinoi, Cours de l'union sacré, P.O. Box 2334, Papeete, Tahiti
TAIWAN	Pai-Yuing Co. Ltd.	6th No 148 Sung Kiang Road, Taipei 10429, Taiwan R.O.C.
THAILAND	MRZ Standard Co. Ltd.	746-750 Mahachai Road, Wangburapa, Bangkok 10200, Thailand
TUNESIA	Societe EDEVIG	40, Avenue du Golfe Arabe, El Menzah, 1004, Tunesia
TURKEY	Türk Philips Ticaret A.S.	Yukari Dudullu Organize sanayi Bolgesi, 2.Cadde no.28, 81260 Umraniye-Istanbul, Turkey
U.K.	Marantz Hifi UK Ltd.	Kingsbridge House, Padbury Oaks, 575-583 Bath Road, Longford, Middlesex UB7 0EH, U.K.
U.S.A.	Marantz America Inc.	440 Medinah Road, Roselle, IL 60172, U.S.A.
YUGOSLAVIA	ITM Company	Omladinskih Brigada 86, 11070 Belgrade, Yugoslavia
EXPORT	Marantz Domestic Sales	A division of Marantz Europe BV,Building SFF2, P.O. Box 80002, 5600 JB Eindhoven, The Netherlands

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