

# marantz®

www.DataSheet4U.com

www.DataSheet4U.com

## Model SA8400 User Guide

Super Audio CD Player

CLASS 1 LASER PRODUCT  
LUOKAN 1 LASERLAITE  
KLASS 1 LASERAPPARAT



SUPER AUDIO CD

COMPACT  
disc  
DIGITAL AUDIO

www.DataSheet4U.com

## ENGLISH

### WARRANTY

For warranty information, contact your local Marantz distributor.

### RETAIN YOUR PURCHASE RECEIPT

Your purchase receipt is your permanent record of a valuable purchase. It should be kept in a safe place to be referred to as necessary for insurance purposes or when corresponding with Marantz.

### IMPORTANT

When seeking warranty service, it is the responsibility of the consumer to establish proof and date of purchase. Your purchase receipt or invoice is adequate for such proof.

## FRANÇAIS

### GARANTIE

Pour des informations sur la garantie, contacter le distributeur local Marantz.

### CONSERVER L'ATTESTATION D'ACHAT

L'attestation d'achat est la preuve permanente d'un achat de valeur. La conserver en lieu sûr pour s'y reporter aux fins d'obtention d'une couverture d'assurance ou dans le cadre de correspondances avec Marantz.

### IMPORTANT

Pour l'obtention d'un service couvert par la garantie, il incombe au client d'établir la preuve de l'achat et d'en corroborer la date. Le reçu ou la facture constituent des preuves suffisantes.

## DEUTSCH

### GARANTIE

Bei Garantiefragen wenden Sie sich bitte an Ihren Marantz-Händler.

### HEBEN SIE IHRE QUITTING GUT AUF

Die Quittung dient Ihnen als bleibende Unterlage für Ihren wertvollen Einkauf. Das Aufbewahren der Quittung ist wichtig, da die darin enthaltenen Angaben für Versicherungszwecke oder bei Korrespondenz mit Marantz angeführt werden müssen.

### WICHTIG!

Bei Garantiefragen muß der Kunde eine Kaufunterlage mit Kaufdatum vorlegen. Ihre Quittung oder Rechnung ist als Unterlage ausreichend.

## NEDERLANDS

### GARANTIE

Voor inlichtingen omtrent garantie dient u zich tot uw plaatselijke Marantz.

### UW KWITANTIE, KASSABON E.D. BEWAREN

Uw kwitantie, kassabon e.d. vormen uw bewijs van aankoop van een waardevol artikel en dienen op een veilige plaats bewaard te worden voor evt. verwijzing bijv. in verbond met verzekering of bij correspondentie met Marantz.

### BELANGRIJK

Bij een evt. beroep op de garantie is het de verantwoordelijkheid van de consument een gedateerd bewijs van aankoop te tonen. Uw kassabon of factuur zijn voldoende bewijs.

## English

### WARNINGS

- Do not expose the equipment to rain or moisture.
- Do not remove the cover from the equipment.
- Do not insert anything into the equipment through the ventilation holes.
- Do not handle the mains lead with wet hands.
- Do not cover the ventilation with any items such as tablecloths, newspapers, curtains, etc.
- No naked flame sources, such as lighted candles, should be placed on the equipment.
- When disposing of used batteries, please comply with governmental regulations or environmental public instruction's rules that apply in your country or area.

## Français

### AVERTISSEMENTS

- Ne pas exposer l'appareil à la pluie ni à l'humidité.
- Ne pas essayer de retirer le boîtier de l'appareil.
- Ne rien insérer dans l'appareil par les orifices de ventilation.
- Ne pas manipuler le cordon d'alimentation avec les mains mouillées.
- Ne pas recouvrir les ouïes de ventilation avec un objet quelconque comme une nappe, un journal, un rideau, etc.
- Ne placer aucune source de flamme nue, comme une bougie allumée, sur l'appareil.
- Pour mettre au rebut les piles usées, respecter les lois gouvernementales ou les règlements officiels concernant l'environnement qui s'appliquent à votre pays ou région.

## Deutsch

### WARNHINWEISE

- Das Gerät nicht Regen oder Feuchtigkeit aussetzen.
- Die Abdeckung nicht vom Gerät abnehmen.
- Keine Gegenstände durch die Belüftungsschlitze stecken.
- Das Netzkabel nicht mit feuchten oder nassen Händen anfassen.
- Decken Sie die Lüftungsöffnungen nicht mit einem Tischtuch, einer Zeitung, einem Vorhang usw. ab.
- Es dürfen keine Gegenstände mit offener Flamme, wie etwa brennende Kerzen, auf dem Gerät aufgestellt werden.
- Beachten Sie bei der Entsorgung der verbrauchten Batterien alle geltenden lokalen und überregionalen Regelungen.

## Nederlands

### WAARSCHUWINGEN

- Stel het apparaat niet bloot aan regen of vocht.
- Verwijder de afdekplaat van het apparaat niet.
- Duw niets door de ventilatieopeningen in het apparaat.
- Raak het netsnoer niet met natte handen aan.
- Bedek de ventilatieopeningen niet met enige voorwerpen, zoals tafelkleden, kranten, gordijnen, enz.
- Plaats geen brandende voorwerpen, zoals kaarsen, op het apparaat.
- Volg bij het weggooien van verbruikte batterijen de overheidswetgeving of milieuvorschriften op die van kracht zijn in het land of de regio waarin u zich bevindt.

## FOREWORD

This section must be read before any connection is made to the mains supply.

## EQUIPMENT MAINS WORKING SETTING

Your Marantz product has been prepared to comply with the household power and safety requirements that exist in your area.

This product can be powered by 230 V AC only.

## COPYRIGHT

Recording and playback of any material may require consent. For further information refer to the following:

- Copyright Act 1956
- Dramatic and Musical Performers Act 1958
- Performers Protection Acts 1963 and 1972
- any subsequent statutory enactments and orders

## INTRODUCTION

Thank you for selecting the Marantz SA8400 Super Audio CD Player for your A / V system.

This Player incorporates a number of features designed to enhance the listening of your favorite audio sources.

Please read these operating instructions carefully. We recommend that you read the entire user guide before you attempt to connect or operate the player. After you have reviewed the contents of this manual, we suggest that you make all system connections before you attempt to operate the unit.

## INSTALLATION

Remember the following important points when installing the player:

- Do not expose the player to rain or moisture, as this may cause damage to the player.
- All players produce some heat during operation and this heat must be allowed to disperse freely. Do not close any ventilation openings and insure that there is adequate ventilation space behind, beside and above the player.
- Prevent extra heat from reaching the unit. Never put the player in the full glare of the sun or near a heat source.

## 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 for an extended period, or during a thunderstorm, to disconnect the equipment from the mains supply.

## PRECAUTIONS IN CONNECTION

- Be sure to unplug the power cable from the AC outlet or turn off the POWER switch before proceeding with any connection.
- Connect one cable at a time observing the "input" and "output". This will avoid any cross connection between channels and signal inputs and outputs.
- Insert the plugs securely. Incomplete connection may result in noise.
- Prior to connecting other audio and video equipment to the SA8400, please read their owner's manuals.

## CONTENTS

### INTRODUCTION ..... 2

- PRODUCT FEATURES ..... 2
- ABOUT SUPER AUDIO ..... 2
- PLAYING CD-RW DISCS ..... 2
- APPLICABLE DISCS TO THE UNIT ..... 2

### BEFORE USING ..... 2

- NOTES ABOUT THE DISCS ..... 2
- INAPPROPRIATE PLACES FOR INSTALLATION ..... 3
- PRECAUTIONS ..... 3
- USING REMOTE CONTROL UNIT ..... 3
- LOADING BATTERIES ..... 3

### NAMES AND FUNCTIONS ..... 4

- FRONT PANEL ..... 4
- REMOTE CONTROLLER ..... 5
- REAR PANEL ..... 6
- DISPLAY ..... 7

### CONNECTIONS ..... 8

### OPERATION ..... 9

- CONNECTING THE POWER SUPPLY ..... 9
- NORMAL PLAYBACK ..... 9
- START SOUND MODE ..... 10
- PLAYING YOUR FAVORITE TRACKS OF A DISC ..... 10
- PLAYING YOUR FAVORITE PARTS OF A DISC (SEARCH) ..... 10
- REPEATED DISC PLAY (REPEAT PLAY) ... 10
- PLAYING TRACKS IN A RANDOM SEQUENCE (RANDOM PLAYBACK) ..... 10
- PLAYING TRACKS IN A SPECIFIC SEQUENCE (PROGRAM PLAY) ..... 10
- SEARCHING YOUR FAVORITE TRACKS (AMS (AUTOMATIC MUSIC SCAN) PLAY) ... 11
- QUICK REPLAY ..... 11
- ABOUT THE TEXT INFORMATION DISPLAY ..... 11
- TIMER PLAY ..... 12
- FILTER SWITCH ..... 12

### TROUBLE SHOOTING ..... 12

# INTRODUCTION

## PRODUCT FEATURES

This unit can playback the outstanding sound performance in Super Audio CD. This unit has the following unique features.

- D/A converter section that accurately converts DSD/CD signal into high-quality analog signal with the DEM(Dynamic Element Matching) Super DAC(CS4397).
- Low-noise low-distortion filter circuit and high-speed current-feedback-type output amplifier with the differential input type HDAM.
- Text information display function that can display disc titles, track titles etc. in Super Audio CD.
- CD-R/CD-RW discs can be played.

## ABOUT SUPER AUDIO

The Super Audio standard is based on Direct Stream Digital (DSD) technology. This new direct-stream digital format comprises a 1-bit system that has a digital sampling frequency that is 64 times higher than that of conventional audio CD. The results are spectacular: a frequency response of over 50k Hz and a 120 dB dynamic range over the entire audible spectrum. Mixed with as many of the original frequencies as possible, the audio information audible for human ears sounds much more natural. All audible frequencies are, after all, embedded in the frequency range as emitted by the sound source. A better reproduction does not exist! For the first time your ears will relive reality.

## PLAYING CD-RW DISCS

This unit can play back the CD-RW (ReWritable) discs as well as ordinary music CD and CD-R (Recordable) discs.

- The CD-R and CD-RW discs should contain properly-recorded TOC information so that they can be played back. With the CD recorder system, writing the TOC information in a disc is referred to as finalizing the disc. A disc cannot be recognized as a CD disc and played back unless it has been finalized properly. For details, please read the instruction manual provided with a CD recorder.
- \* TOC stands for Table Of Contents and contains information such as the total number of tracks and total playing time of the disc.
- This unit can play only the discs recorded in the CD-DA format designed for music reproduction. Do not attempt to play a disc containing other data, such as a CD-ROM for PCs, on this unit.

- As the playback of a CD-RW disc necessitates partial change of the player setup, it may take longer time for reading the TOC information than when a music CD or CD-R disc is played.

## APPLICABLE DISCS TO THE UNIT

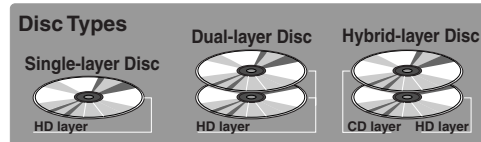
### 1. Super Audio CD



SUPER AUDIO CD

There are three types of Super Audio CDs.

- **Single-layer Disc**
- **Dual-layer Disc**
- **Hybrid-layer Disc**



And each type may contain two areas of recorded information.

- **High quality stereo area**
- **High quality multi-channel area\*\***

#### • Single Layer Disc

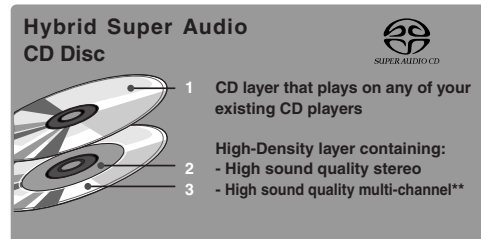
It can contain both high quality stereo area and high quality multi-channel area\*\* information.

#### • Dual Layer Disc

It can contain both high quality stereo area and high quality multi-channel area\*\* information. And a double amount of information can be stored on the disc thanks to the second layer.

#### • Hybrid Layer Disc

Not only does this disc contain both high sound quality stereo area and high sound quality multi-channel area\*\* information, it also has a CD layer in the second layer, so it can be played on a CD player.



The number of tracks recorded may vary per layer. It will be shown on the display window of the unit.

- \*\* This unit is a stereo-only player, so cannot playback the high sound quality multi-channel area.

### 2. Audio CD (CDDA)

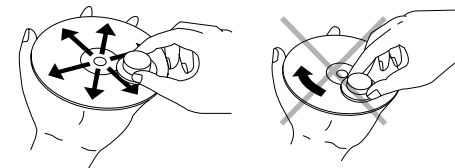


Audio CDs contain music tracks only.

# BEFORE USING

## NOTES ABOUT THE DISCS

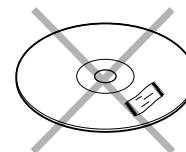
- \* **Handle the discs carefully so as not to scratch their surfaces.**
- \* **Keep the surfaces of the discs clean at all times.** When cleaning the surfaces of discs, always be sure to use the special cleaner and wipe the surfaces in the directions shown in the figure below.



- Wipe the surface radially from the center.
- Do not wipe the surface in the circumferential direction.

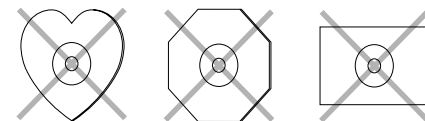
- \* **Do not attach pieces of paper or stickers to the label surfaces of the discs.**

When a disc has a piece of plastic tape or rental CD label with paste protruding from the edge or when a disc still bears traces of sticky tape or adhesive labels, do not attempt to play it. If such a disc is played on the CD player, you may find that you cannot remove it or that some other kind of malfunctioning may occur.



- \* **Do not use discs which come in special shapes.**

Do not attempt to play heart-shaped or octagonal discs or discs with any other special shapes. You may find that you cannot remove them or that some other kind of malfunctioning may occur in the player.



- \* **Use discs which satisfy the CD standards such as those with the "CD logo" or "compact disc" mark on their disc label surfaces.**

No guarantees are made for playback if discs which do not satisfy the appropriate CD standards are used.

Similarly, no guarantees are made for their sound quality even if it is possible to play such discs.

\* **To protect your discs from damage, avoid placing them in the following locations.**

- Where they will be exposed to direct sunlight or where they will be close to a heater or other heat-radiating appliance
- Where the humidity level is high or it is very dusty
- Near a window or other such location where they may be exposed to rain

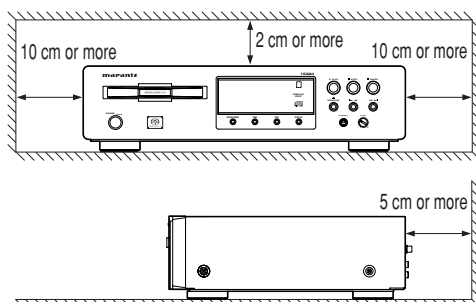
\* **Get into the habit of putting the discs back in their cases after use.**

## INAPPROPRIATE PLACES FOR INSTALLATION

To keep your player in perfect working order for the longest possible time, avoid installing the player in the following locations.

- Wherever it will be exposed to direct sunlight
- Wherever it will be close to a heater or other heat-radiating appliance
- Wherever the humidity is high or ventilation is poor
- Wherever it is very dusty
- Wherever it will be subject to vibration
- On top of a rickety stand or in an unstable location which is tilted at an angle
- On top of an amplifier or other component which dissipates a great deal of heat
- In an audio rack with little space at the top and bottom or other location where the heat dissipation will be obstructed

To ensure proper heat dissipation, install the player while leaving clearances between the player and wall or other components, as shown in the figure below.



## DO NOT PLACE OBJECTS ON TOP

- Refrain from placing any objects on top of the player.

## CAUTIONS ON HANDLING POWER CORD

- Do not touch the power cord with wet hands.
- When disconnecting the power cord, always make sure that you take hold of the plug. Yanking out or bending the cord can damage it and/or cause electric shocks or a fire.
- Get into the habit of disconnecting the power plug before leaving home.

## DO NOT ATTEMPT REPAIRS YOURSELF

- Refrain from lubricating the player: doing so can cause malfunctioning.
- Only qualified engineers with specialized expertise are authorized to repair the pick-up and parts inside the player.

## PRECAUTIONS

- In winter, droplets of water form on the insides of the windows of a heated room: this is called condensation. This player uses an optical lens, so the condensation may form in the following cases.
  - In a room immediately after the heating has been turned on
  - In a room where the humidity level is high
  - When the player has been suddenly brought from a cold location into a warm room

Since, in cases like this, the track numbers may not be read and the player is prevented from operating properly, wait about 30 minutes, and then operate the player.

- This player may cause interference on a tuner or TV set. If this is the case, place it further away from the tuner or TV set.
- Compact discs have much less noise than analog records and hardly any noise is heard before play starts. Bear in mind, therefore, that if the volume control on the amplifier is set too high, you will risk damaging other audio components.
- This player is designed to play Super Audio CD and normal music CDs only. It cannot play CD-ROMs used with personal computers, game CDs, video CDs or DVDs (video/audio).
- We do not recommend the use of lens cleaners.

## USING REMOTE CONTROL UNIT

### Cautions on handling batteries

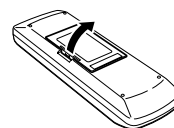
Misuse of the batteries can result in electrolyte leakage, rupturing, corrosion, etc. Bear in mind the following points when using batteries.

- Remove the batteries from the remote control unit if the unit is not going to be used for a prolonged period (a month or more).
- Do not use an old battery together with a new one.
- Insert the batteries while ensuring that their  $\oplus$  and  $\ominus$  poles are properly aligned with the corresponding markings on the remote control unit.
- Batteries with the same shape may have different voltages. Do not use different types of batteries together.
- If electrolyte has leaked, thoroughly wipe the inside of the battery compartment, and then insert new batteries.
- When batteries which are no longer required are to be discarded, follow the directions (regulations) laid down by the local authorities in the area concerned for their disposal.

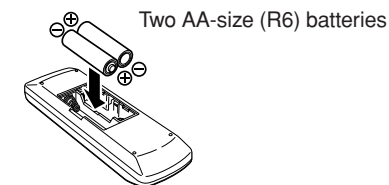
## LOADING BATTERIES

Batteries in this remote control unit have a life of approximately 1 year under normal operating conditions. If the remote control unit is not going to be used for an extended period of time, remove the batteries. Also, if you notice that the batteries are starting to run down, replace them as soon as possible.

- 1 Remove the battery cover.



- 2 Insert the batteries with correct  $\pm$  orientation.



- 3 Close the battery cover until it clicks shut.

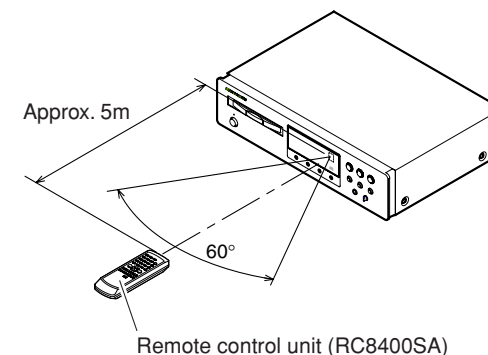


## REMOTE CONTROL

Operate the remote control unit (RC8400SA) within a distance of approx. 5 m from the infrared signal reception window (remote sensor) on the front of the Super Audio CD player.

Remote control operation may not be possible if the remote control unit's transmitter is not pointing in the direction of the remote sensor or if there is an obstruction between the transmitter and the remote sensor.

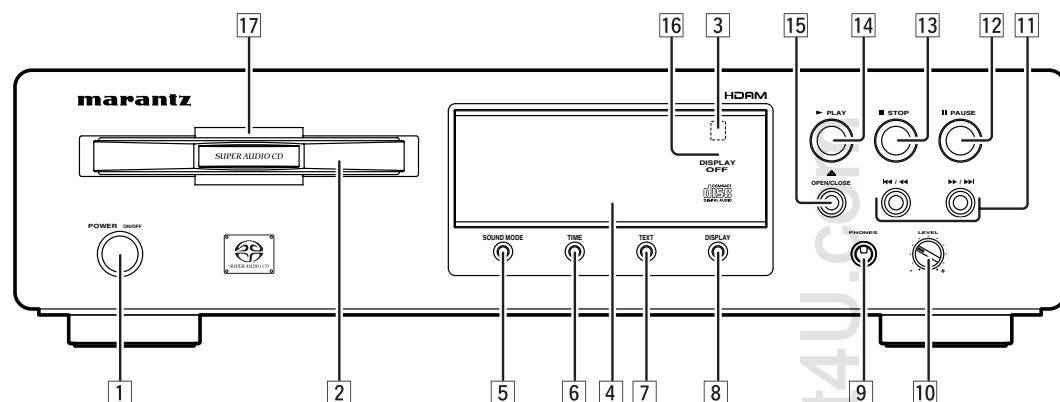
Remote control operating range





# NAMES AND FUNCTIONS

## FRONT PANEL



### 1 POWER ON/OFF switch

This switch is used to turn the power ON and OFF. When it is pressed, the display window lights up, and the power comes on. When it is pressed again, the display window is extinguished, and the power goes off.

### 2 Disc tray

The disc to be played is placed on the tray.

### 3 Remote sensor

The infrared control signal emitted from the remote control unit are sensed here.

### 4 DISPLAY WINDOW

This window shows status of the unit.

### 5 SOUND MODE button

This button is used to select the Super Audio CD sound mode. Super Audio CD (stereo) or CD (if discs are supported) (See page 9)

### 6 TIME button

This button is used to change the player's display from "time information" to "text information" while a Super Audio CD disc that supports TEXT is in use. It is also pressed to change the time display. Each time this button is pressed, the display changes as follows: "Track elapsed time" → "Track remaining time" → "Total remaining time" → "Track time elapsed." (See page 9)

### 7 TEXT button

This button is used to change the player's display from "time information" to "text information" while a Super Audio CD disc that supports text is in use. (See page 11)

### 8 DISPLAY OFF button

This button is used to turn lighting ON and OFF of the display window. Pressing this button once darkens the display. The third time this button is pressed, the display will be extinguished and the indicator in 16 lights.

### 9 PHONES (headphones) jack

The headphones are connected to this jack.

\* Use headphones with a standard plug.

### 10 LEVEL (headphone volume) control

This control is used to adjust the headphone volume. Turn it clockwise to increase the headphone volume.

### 11 << / >>, >> / >>> (Track Skip/Search buttons)

These buttons can be used as both track skip and track search buttons. (The buttons on the main unit only.)

>>> / >>>> : Each time this button is pressed, the track being played is skipped forward. When this button is held down, tracks are searched forward (Fast Forward).

<<< / <<<< : When this button is pressed, the unit goes back to the beginning of the current track. If the button is pressed more times, the track being played is skipped back. When this button is held down, tracks are searched backward (Fast Rewind).

In program play, Fast Forward and Fast Rewind can be done in the playing track only.

### 12 || PAUSE button

Press this button to pause playback. If pressed again, the unit returns to playback.

### 13 ■ STOP button

Press this button to stop playback. Also this button is used to clear all programs.

### 14 ► PLAY button

Press this button to start playback.

### 15 ▲ OPEN/CLOSE button

Press this button to open the tray. Put on a disk label side up. Press the button again to close the tray.

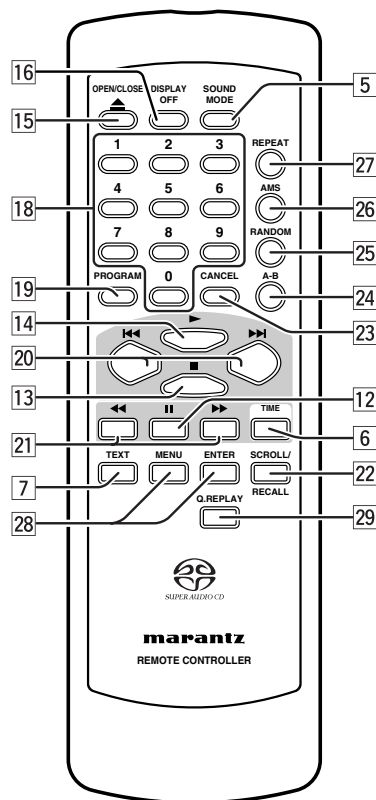
### 16 DISPLAY OFF

It lights up when display window is turned off.

### 17 Illumination lamp

This lamp lights when the display window lights.

## REMOTE CONTROLLER



5 **SOUND MODE** button

6 **TIME** button

7 **TEXT** button

12 **PAUSE** button

13 **STOP** button

14 **PLAY** button

15 **OPEN/CLOSE** button

16 **DISPLAY OFF** button

The buttons listed above are the same to the buttons on the front panel of the main unit. Please see the correspond items in "Front Panel" section.

18 **0 - 9 (Numerical buttons)**

Use these buttons to select tracks directory.

19 **PROGRAM** button

This button is for program play. (See page 10)

20 **Track skip buttons**

**Left Arrow**: When this button is pressed, the unit goes back to the beginning of the current track. If the button is pressed more times, the track being played is skipped back.

**Right Arrow**: Each time this button is pressed, the track being played is skipped forward.

\* Search buttons are provided separately for the remote control unit. Use **Search buttons** for search function.

21 **Search buttons**

**Left Arrow**: While this button is pressed during playback, tracks are searched backward.

**Right Arrow**: While this button is pressed during playback, tracks are searched forward.

22 **SCROLL/RECALL** button

Use this button to scroll text while displaying text information in a Super Audio CD disc that supports TEXT.

This button is also used for checking the programmed tracks during a program or when a program is stopped. (See page 11)

23 **CANCEL** button

Use this button to cancel a programmed track. (See page 11)

24 **A-B (A-B Repeat button)**

This button is to determine starting and ending points for A-B repeat play. (See page 10)

25 **RANDOM** button

This button is for random play. (See page 10)

26 **AMS (Automatic Music Scan button)**

Use this button for AMS play. (See page 11)

27 **REPEAT** button

This button is for repeat play. Each time this button is pressed, repeat mode changes as follows. "All Repeat" → "Track Repeat" → "Repeat Off" (See page 10)

28 **MENU button and ENTER button (Menu setup)**

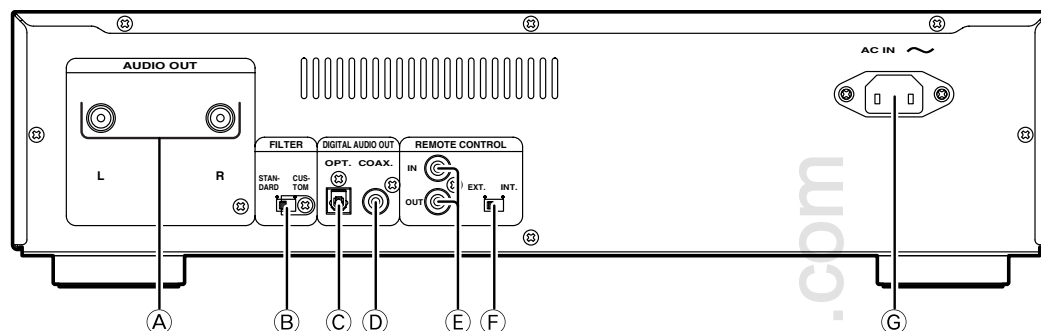
These buttons are used to set the time for quick replay.

29 **Q.REPLAY (Quick replay) button**

This button is used to do quick replay of the tracks. (See page 11)

\* In this instruction manual, some operations can only be performed with the remote control. For operations that can be performed with buttons both on the main unit and on the remote control, the button names are shown in the **□** mark. And for operations that can only be performed with buttons on the remote control, the button names are shown in the **○** mark.

# REAR PANEL



## Ⓐ STEREO AUDIO OUT (analog output) connectors

## Ⓑ FILTER STANDARD/CUSTOM (Filter standard/custom switch)

Set this switch according to the amplifier and speakers to be connected. For more details, refer to "Filter Switch" section on page 12.

\* Switching the filter setting has to be done while the unit is in stand-by mode. If the setting is switched while playing, noise may occur.

## Ⓒ DIGITAL OUT OPTICAL

It outputs the playing CD signal in digital format. This jack is to be connected with a recording device, amplifier, D/A converter, etc that has optical digital input using an optional square type optical digital cable.

\* No signal will be output when a Super Audio CD is played.

## Ⓓ DIGITAL OUT COAXIAL

It outputs the playing CD signal in digital format. This jack is to be connected with a recording device, amplifier, D/A converter, etc that has coaxial digital input using an optional coaxial digital cable.

\* No signal will be output when a Super Audio CD is played.

## Ⓔ REMOTE CONTROL IN, OUT (input and output) connectors

When the remote control connectors on the player and on a Marantz AV component are connected using the accessory remote control connecting cables, the components can be operated as a system by remote control.

- When connecting to a component which is equipped with remote control connectors, the player's REMOTE CONTROL IN connector must always be connected to the REMOTE CONTROL OUT connector on the other component to be connected.
- When connecting a component which is not equipped with an infrared remote sensor, this component must always be connected to the player's REMOTE CONTROL OUT connector.

## Ⓕ EXT./INT. (External/Internal switch)

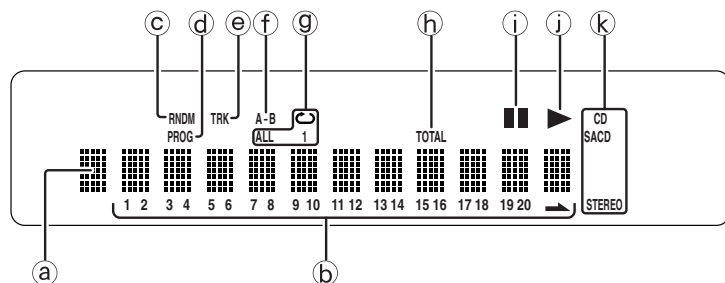
When this unit is used as a standalone component, set this switch to the INT. side. When it is used connected to external component by a remote connecting cable and to audio component with a remote sensor that supports remote controls by Marantz, set this switch to the EXT. side.

\* If the unit is used as standalone and the switch is set to EXT. position, remote control unit cannot be used.

## Ⓖ AC POWER INPUT JACK

Connect the supplied power cord to this jack and a household AC power outlet.





## a Main display

The time display and text information of the disc to be played as well as the setting menus and other displays appear on the main display.

## b 1-20, ➡ (music calendar)

The number of tracks recorded on the disc to be played, the number of remaining tracks to be played, and the number of tracks programmed by program play appear here. "➡" light when 21 or more tracks have been recorded on the disc.

## c RNDM (random) indicator

This lights during random play.

## d PROG (program) indicator

This lights during program play.

## e TRK (track) indicator

This lights above the display of the track number now playing, for instance.

## f A-B (A-B repeat) indicator

This lights during A-B repeat play.

## g ⏮, ALL, 1 (repeat) indicator

This lights during repeat play.

## h TOTAL (total time) indicator

When the total remaining time or the total program time is displayed, this lights above the display.

## i || (pause) indicator

This lights when play is paused (temporarily stopped).

## j ▶ (play) indicator

This lights during disc play.

## k CD, SACD, STEREO Disc indicator

This indicates the type of disc on the disc tray.

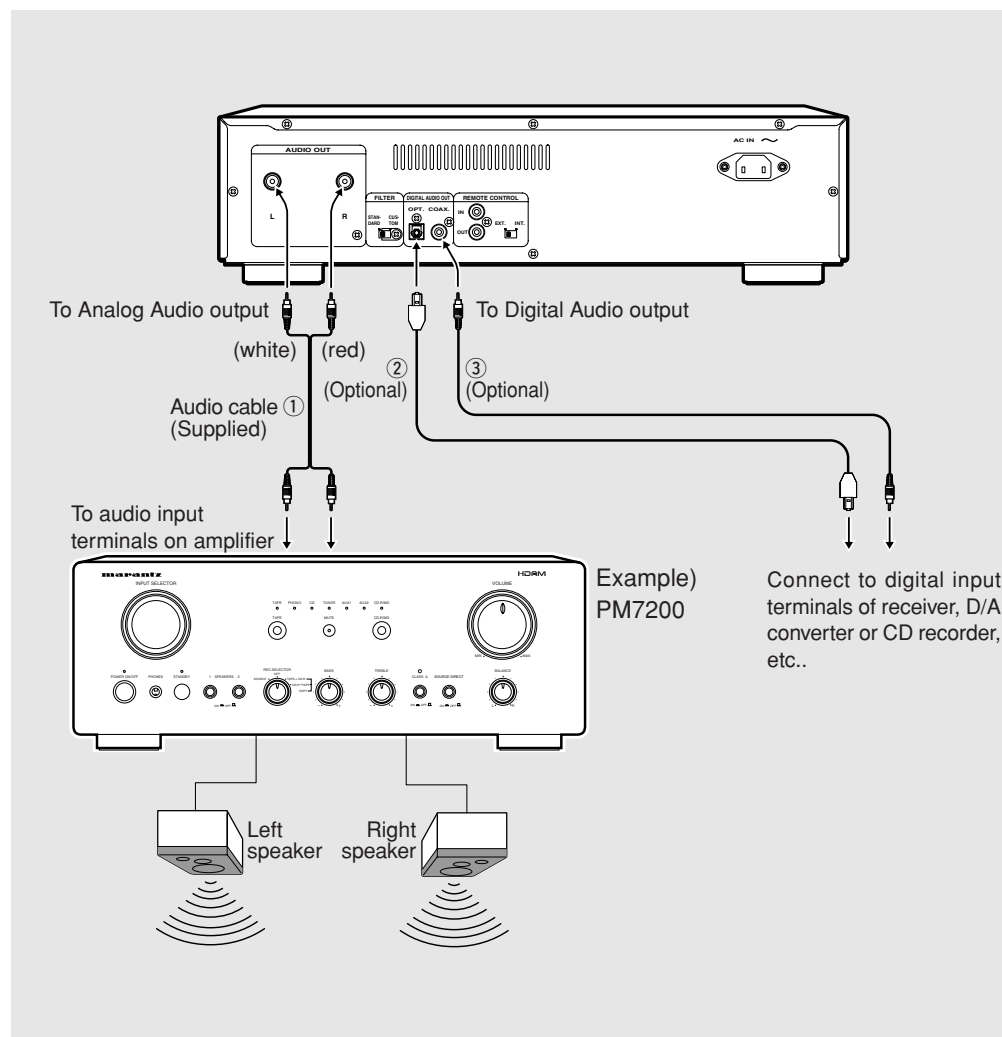
# CONNECTIONS

Depending on your amplifier/receiver/Stereo System, there are various ways to connect to this player. For correct connection please refer to instruction manuals of stereo system to be connected.

Caution: Do not connect output from this unit to PHONO input of your audio system.



1. Connect the audio cable ① to this unit's front speaker outputs and the stereo inputs on your amplifier, receiver or stereo system.
2. Connect the optical cable ②, coaxial cable ③ to the digital input on your AV amplifier, D/A converter, CD-R, etc..

\* Signal will be output from the digital audio out jacks (OPT./COAX.) only when a CD disc is played. When playing a Super Audio CD disc, no signal will be output.



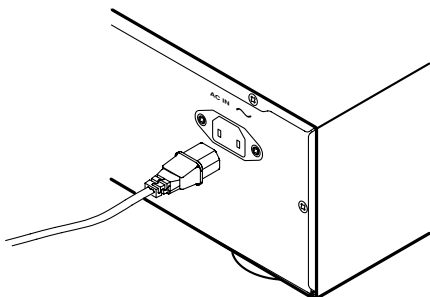
www.DataSheet4U.com

# OPERATION

\* In this instruction manual, some operations can only be performed with the remote control. For operations that can be performed with buttons both on the main unit and on the remote control, the button names are shown in the  mark. And for operations that can only be performed with buttons on the remote control, the button names are shown in the  mark.

## CONNECTING THE POWER SUPPLY

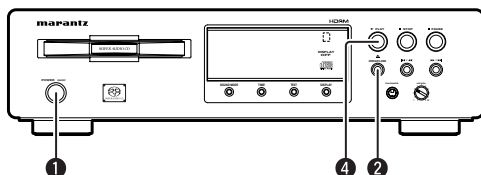
- 1 Plug the power cable into AC IN jack on the back panel.



- 2 Turn on the power switch of the audio unit (amplifier, etc.) that is connected with this unit. Set the selector on the connected unit to this unit.
- 3 Plug the power cable into an AC outlet.

## NORMAL PLAYBACK

### SUPER AUDIO CD PLAYER PLAYBACK



- 1 Press POWER switch to turn on.

Display indications

SuperAudioCD

The display changes in order from "TOC Reading" to "No Disc" (if there is no disc inserted) to "Super Audio CD" (for Super Audio CD).

- 2 Press the  OPEN/CLOSE button


The disc tray comes out. Place the disc with label side up on the tray.

To play a single (8cm) CD, place the disc with the indentation at the center of the tray.

- 3 Press  OPEN/CLOSE button.

- 4 Press  PLAY button.

Disc type is automatically detected and playback is started. Track number and track elapsed time (minute, second) appear on the display.

\* For Super Audio CD/CD hybrid-layer discs (See page 2), the layer that is set in the start sound mode (See page 10) is played. To change the layer, use the  SOUND MODE button. (See page 9)

(Exp.: Track 6, Elapsed time 2 min 8 sec)



Playback automatically stops at the end of the final track.


To start playback from the first track

Press  PLAY button.

To stop playback

Press  STOP button.



To eject disc

Press  OPEN/CLOSE button to open the disc tray and take the disc off. Press the button again to close the tray.


Disc tray must be closed when the unit is not be used.


To pause playback

Press  PAUSE button.

PAUSE indicator will light and playback is paused at the point that the button is pressed. To restart playback, press  PAUSE button again or press  PLAY button.

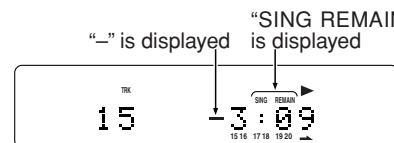
To change time display

Press  TIME button.

Each time  TIME button is pressed, display will change in the following order. "Track elapsed time" → "Track remaining time" → "Total remaining time" → "Track elapsed time".

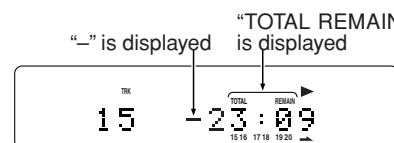
- Track remaining time



(The remaining playing time from the playing point to the end of the current track)



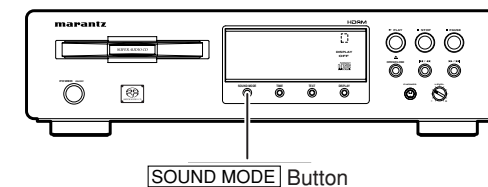
- Total remaining time


(The remaining playing time from the playing point to the end of the last track)




\* If  TIME button is pressed when Super Audio CD disc that supports text is in use, time display is given priority and the text information will not be displayed afterward. To see the text information, press  TEXT button.

## SWITCHING SOUND MODE (SUPER AUDIO CD)




- 1 Press  SOUND MODE button in stop mode (not playing).


The currently selected layer or area is shown on the display window. (CD or Super Audio CD) If  SOUND MODE button is pressed again, a playable layer or area will be shown, and the layer or area will be switched to new one.


\* When layer or area is switched, TOC will be read again.


\* If a CD disc or Super Audio CD disc with stereo area only is loaded, sound mode cannot be changed.

\* The sound mode on hybrid layer discs will be changed in the following order. Super Audio CD stereo area → CD layer → Super Audio CD stereo area

\* Sound mode can be selected while the tray is open. Select a desired layer or area and press  PLAY button then the tray will close and playback will be started.

- 2 Press  SOUND MODE button during playback.

The currently selected layer or area is shown on the display window. (CD or Super Audio CD) If  SOUND MODE button is pressed again, the playback is stopped, and the layer or area will be switched to new one.

When you want to listen at that area, press  PLAY button again. The playback will be started.

## START SOUND MODE

When a Super Audio CD hybrid layer discs that has both a Super Audio CD high sound quality stereo area and a CD area information are to be played, this player makes it possible to set the layer/area (Super Audio CD or CD) to be preferentially played. This setting can be made when the tray is closed and there is no disc in the disc tray.

- Press **[SOUND MODE]** button on the player.  
The currently selected layer/area is displayed.  
If the Super Audio CD is selected : Super Audio CD  
If the CD is selected : CD
- Press the **[SOUND MODE]** button again to display the layer/area to be played first, and then leave the setting for at least two seconds to register the setting for the start sound mode.

### Caution

- \* Even when discs are changed over or the power turned off, the "start sound mode" setting is stored in the memory and remains unchanged.
- \* At the time of shipment, the sound mode is set to Super Audio CD.

## PLAYING YOUR FAVORITE TRACKS OF A DISC

### SPECIFY TRACK NUMBER TO PLAY (DIRECT SEARCH)

Specify track number with numerical buttons (0-9) on the remote

(example)

- 3rd track : Press **(3)**.  
12th track : Press **(1)** and then press **(2)**  
(within approximately 1.5 seconds).

If the first pressed number is only in the digit of ones and not in the digit of tens, search begins approximately 0.5 second after.

### If a wrong number is pressed

Press correct number again.

- \* If a track number that is not in the disc is specified, "No Track" will be shown on the main display. Please specify a correct track.

## SKIPPING TO THE PREVIOUS OR NEXT TRACK (TRACK SKIP)

### To listen to a track posterior to the current track

Press **[▶▶]** buttons on the main unit or **[▶▶]** button on the remote the number of times you want to proceed tracks.

### To listen to a track prior to the current track

Press **[◀◀]** buttons on the main unit or **[◀◀]** button on the remote go back to the beginning of the current track. Then press **[◀◀]** buttons on the main unit or **[◀◀]** button on the remote the number of times you want to go back.

## PLAYING YOUR FAVORITE PARTS OF A DISC (SEARCH)

If **[◀◀/▶▶]**, **[▶▶/▶▶]** buttons on the main unit or **[◀◀]**, **[▶▶]** buttons on the remote are kept pressing during playback, track search begins. Release the button when the point you want to listen to gets close.

- \* No sound is output during the search operation.

## REPEATED DISC PLAY (REPEAT PLAY)

### ALL TRACK REPEAT

When **(REPEAT)** button on the remote is pressed, "Ⓢ" "ALL" indicator will light up and all track repeat play begins.

### To Return to Normal Play

Press **(REPEAT)** button two times. "Ⓢ" "ALL" indicator will disappear, repeat mode will be off and it returns to normal play mode.

- \* If **(REPEAT)** button is pressed when in program mode, programmed tracks are played repeatedly.

### ONE TRACK REPEAT

Press **(REPEAT)** button on the remote two times. "Ⓢ", "1" indicators will light and the track will be played repeatedly.

### To Exit from One Track Repeat

Press **(REPEAT)** button. "Ⓢ" "1" indicator will disappear, repeat mode will be off and it returns to normal play mode.

## A-B REPEAT

- Press **(A-B)** button on the remote at your chosen starting point. The "A-B" indicator will blink.
- Press **(A-B)** button again at your chosen end point. "A-B" "Ⓢ" indicator will light up and the chosen section will be played repeatedly.

### To Exit from A-B Repeat

Press **(A-B)** button on the remote. "A-B" "Ⓢ" indicator will disappear, A-B repeat mode will be off and it returns to normal play mode.

- \* A-B repeat cannot be done when random play is going on.
- \* The end point (where "A-B" "Ⓢ" indicator is lit up) of the repeat section cannot be set before the time of the starting point (where "A-B" indicator blinks) of the repeat section.

## PLAYING TRACKS IN A RANDOM SEQUENCE (RANDOM PLAYBACK)

When **(RANDOM)** button on the remote is pressed in stop mode, and then **[▶ PLAY]** button is pressed, the unit shuffles track order automatically and plays all the tracks in the shuffled order. The RNDM (random) indicator lights.

- \* The gap between tracks will be approximately 2 seconds during random play.

### To Exit from Random Play and Return to Normal Play

Press the **[■ STOP]** button, and then press the **(RANDOM)** button while playback is stopped. The RNDM (random) indicator goes off, and random play is released.

If **[▶▶/▶▶]** buttons on the main unit or **[▶▶]** button on the remote are Pressed during Random Play It jumps to the next track of the shuffled order.

If **[◀◀/▶▶]**, **[▶▶/▶▶]** buttons on the main unit or **[◀◀]**, **[▶▶]** buttons on the remote are Pressed during Random Play

Search will be done only in the current track. Search does not go to the previous or next track.

### To Listen to Random Play Repeatedly

Press **(REPEAT)** button on the remote once during random play. Every time the order will be shuffled.

- \* If **(RANDOM)** button is pressed during program play, the programmed tracks will be shuffled.

## PLAYING TRACKS IN A SPECIFIC SEQUENCE (PROGRAM PLAY)

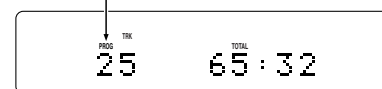
You can arrange and play tracks in a specific sequence. Up to 30 tracks to be played can be programmed.

(Example: To program the 7th track in a disc with 25 tracks)



- Press **(PROG)** button on the remote in stop mode. "PROG" indicator will blink and it goes to program mode.

Lights up



- Choose a track to be programmed with numeric buttons on the remote.

(Example: The 15th track is chosen and it's length is 4min30sec)

Lights up

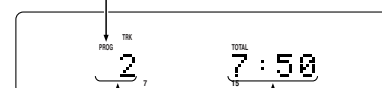


1st track programmed      Only the numbers of programmed tracks light up

- With the sequence described in step ② above, program another track. Repeat that sequence to program all the tracks you want. You can program up to 30 tracks.

(Example: The 7th track is chosen and total length of 7th and 15th is 7min50sec)

Lights up



Total programmed number      Total playing time of programmed tracks

- Press **[▶ PLAY]** button to starts playback in programmed order.

- \* When 21 or more tracks are programmed, **[▶▶]** will light up instead of the track number indicator.

### To Check the Programmed Tracks

Press the **(SCROLL/RECALL)** button on the remote control during the program or when the program is stopped ("PROG" lights up). Every time press **(SCROLL/RECALL)** button, the programmed tracks will be displayed one after the other in order.

### To Delete a Programmed Track

- Press **(CANCEL)** button in stop mode when program has been made (When "PROG" indicator is lighting up).
- Every time press **(CANCEL)** button, the programmed tracks are deleted in order from the last track programmed. Also, the deleted track's track number indicator will disappear.

### To Clear Whole Program

Press **(STOP)** button two times while in program play. In the stop mode, press **(STOP)** button once. Program can also be cleared by pressing **(OPEN/CLOSE)** key to open the disc tray.

### To Add Tracks to Program

Tracks can be added to the end of program when program is remaining ("PROG" indicator is lighting up) and in stop mode. However tracks cannot be added to the program when the RNDM (random) indicator is lit up.

### \* Please be careful about the following matters.

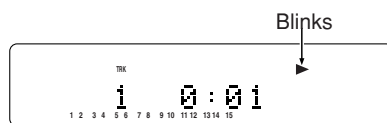
- When programming 1st through 9th tracks in a disc that has over 10 tracks by using numeric buttons. For instance, programming the 3rd track after programming the 1st track, press 3 button more than approximately 1.5 seconds after 1 button is pressed. When a program is finalized, the time is updated.
- Likewise, when programming a track at 10th or after. For example, to program 13th track, press 3 button within approximately 1.5 seconds after 1 button is pressed.
- When programming a track in a disc that has less than 9 tracks. For instance, to program the 5th track after 4th track has been programmed, press 5 button more than approximately 0.5 second after 4 button is pressed.

## Q&A

- How many tracks can be programmed?**  
Up to 30 tracks can be programmed for program play.
- Can I listen to program play repeatedly?**  
Press **(REPEAT)** button once. "ALL" indicator will light and program play will be repeated.
- Can I shuffle the programmed track order?**  
Press **(RANDOM)** button in stop mode.

### SEARCHING YOUR FAVORITE TRACKS (AMS (AUTOMATIC MUSIC SCAN) PLAY)

This feature is convenient to search where your favorite track is. If **(AMS)** button on the remote is pressed in stop mode, the PLAY "►" indicator will blink and the beginnings of all the tracks will be played for 10 seconds each starting from the first track. Also, if the **(AMS)** button is pressed during playback, the PLAY indicator "►" will blink, and the program will jump to the next track after a display time of approximately 10 seconds.



When you find a song that you want to listen to, press the **(AMS)** button again or press the **(PLAY)** button. PLAY indicator will light up constantly and normal playback will begin from the current track.

\* If the **(AMS)** button is pressed after the tracks are programmed, only the programmed tracks are played by AMS.

### QUICK REPLAY

When **(Q.REPLAY)** button is pressed during playback, the unit goes back to the amount of time set by the MENU and starts playback from there.

\* Playback that goes beyond the track is not allowed. Also, when the total time of the track being played is shorter than the time set for quick replay, or when the playback time is shorter than the time set for quick replay, if **(Q.REPLAY)** button is pressed, the track will be goes back to the start of that track and playback is started from there.

### To Set Quick Replay Time

- If a disc is loaded in the disc tray, eject the disc and close the tray.
- Press the **(MENU)** button on the remote control.

Quick Replay

- Press **(ENTER)** button on the remote while "Quick Replay" is displayed. The current setting time will be displayed.

Q.Rep.: 10sec

- Use **(◀◀)** or **(▶▶)** button to set the time. (10 sec./20 sec./30 sec.)
- After set the time, press **(MENU)** button two times. The display will return to the normal display.

### Caution:

\* When there is no key input for about 4 seconds during this series of operations, the setting will be configured to the conditions at that time and the display will return the time display.

### ABOUT THE TEXT INFORMATION DISPLAY

The following items of text information in Super Audio CD discs can be displayed by pressing **(TEXT)** button on the remote.

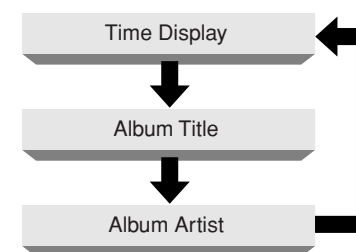
Nevertheless, which items of information are recorded depends on discs so some information may not be displayed. This unit skips unrecorded information to display.

#### • During playback

When **(TEXT)** button is pressed on the remote, "Track Title" of the currently playing will be displayed.

#### • In Stop Mode

Each time **(TEXT)** button on the remote is pressed, text information will be displayed in the following order.



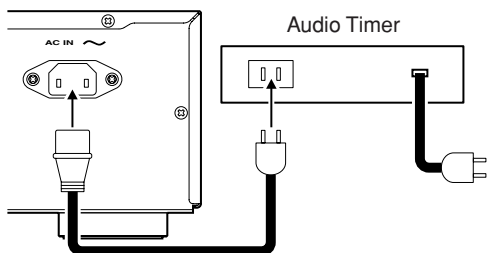
- This unit can display 12 characters in one time. If information is longer than 12 characters, the display will scroll right to left.
- This unit can display only alphabets, numeric numbers and symbols. Chinese and Japanese characters cannot be displayed. If information is in Chinese and Japanese characters, the unit displays nothing.



## TIMER PLAY

This unit can perform timer play by cooperating with your audio timer. Connect this unit's power cord to the audio timer's power socket and the timer's power cord to power outlet.

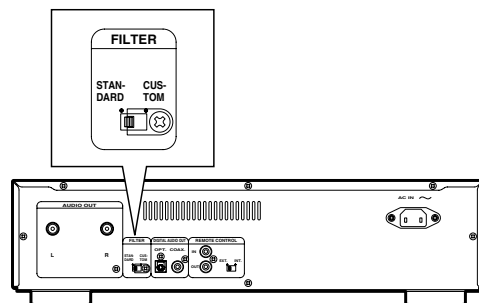
\* For connection to audio timer and its operation, please refer to the instruction manual of your audio timer.



### Setting method of Timer Play

- ① Press POWER switch to turn ON the power.
- ② Insert the disc to be played.
  - \* In timer play mode, tracks are played normally.
- ③ Set the audio timer.

## FILTER SWITCH



Super Audio CDs have a wide playback frequency band of 100 kHz that is beyond the audible range: this means that their signals contain ultra-high-range components that conventional CDs do not have. A conventional amplifier is often not built to reproduce signals containing these components, and when Super Audio CD signals are output in their original state, noise may be generated, the amplifier's protection circuits may be activated and/or the speakers may be damaged.

To prevent this sort of trouble from occurring, the unit incorporates a filter (STANDARD) for attenuating the ultra-high-range components, and the filter can be set STANDARD or CUSTOM using a switch on the rear panel. (This switch is set to STANDARD when the unit is shipped from the manufacturing plant.)

When the unit is to be connected with a next-generation amplifier that supports Super Audio CDs and set the switch to CUSTOM for use. This will ensure play with a wider frequency range.

\* Use the switch at the STANDARD position if the unit is to be used with a regular amplifier. Otherwise, the amplifier and/or speakers may be damaged.

\* Even when the unit has been connected with an amplifier that supports Super Audio CDs, change the switch to the STANDARD position when recording Super Audio CD sound on a tape deck, for instance.

\* Turn the power off before setting this switch. Setting the switch during play may cause noise to be generated.

## TROUBLE SHOOTING

If you think a malfunction has occurred, first check the points listed below. The problem is likely to have been caused by a simple operational error or a connection problem. If the problem cannot be corrected even after carrying out the following checks, consult your dealer or nearest Marantz sales office or service counter.

### • The disc fails to rotate.

1. Is the mains lead plugged in properly?
2. Is the POWER switch ON?
3. Is the disc placed in the correct position on the disc tray?
4. Is the disc placed properly with the label side facing up?
5. Is the disc dirty?
6. Is the disc scratched?
7. Is the disc warped?

### • The disc is rotating but no sound is heard.

1. Are the amplifier and speakers connected properly?
2. Is the amplifier switch ON?
3. Is the amplifier's function or selector switch set to "CD" or "AUX" or such (to whatever you have connected this unit to)?
4. Is the amplifier's volume control set at the minimum level?

### • The disc stops in mid-operation.

#### ■ The sound drops out or noise is heard.

1. Is the disc dirty?
  2. Is the disc scratched?
  3. Is the disc warped?
- \* In the case of a CD-R or CD-RW disc, this problem may occur when the conditions under which its data was originally written were substandard or when the quality of the disc itself is poor.
- \* This condition may occur in Mixed-Mode CDs, CD Extra, and other discs that have CDDA format mixed with other data. Noise may also be heard momentarily when skipping tracks.

### • Remote control operation is not possible.

1. Is the transmitter of the remote control unit (RC8400SA) pointed correctly at the remote sensor on the front of the player (this unit)? Or is there an obstruction between the transmitter and the remote sensor?
2. Are the batteries in the remote control unit exhausted?
3. Is there another strong light (from a window, etc.) striking the Super Audio CD player's remote sensor?

### • A Super Audio CD cannot be played.

1. Is the disc scratched, dirty or warped?
  2. Is the amplifier's input selector set to digital?
- \* Digital audio signal will not be output when a Super Audio CD is played.
3. Is the disc a Super Audio CD multi-channel only disc? (This unit does not support Super Audio CD multi-channel.)

### • A CD-R/CD-RW disc cannot be played.

1. Is the disc placed upside down?
2. Is the disc contains properly written TOC?
3. Is the recorded information in an audio (CD-DA) format?

### • A specific CD cannot be played

Copy control CDs (CDs with copy guard) are special discs that do not comply with current CD standards. Marantz cannot guarantee the ability to play such discs on your CD player. When normal CDs can be played without a problem and problems occur only when playing these special discs, it is not a problem with this unit. Please ask the seller of the copy control CD for detailed information regarding copy control CDs.

### • The unit makes a clicking sound when the tray closes

This is the adhesion click of the clasper for securing the disc. This does not cause any problem in using the unit.

### • While the disc is spinning, a spinning sound is heard or a slight vibration occur.

Depending on the disc, a spinning sound may occur or the unit may vibrate slightly due to disc eccentricity or such. This is not a problem with this unit.



# SPECIFICATIONS

	Super Audio CD	CD
<b>Audio Characteristics</b>		
Analog output		
Channels	2channels (Max.)	2channels
Frequency range	2Hz — 100kHz	2Hz — 20kHz
Frequency characteristics	2Hz — 50kHz (-3dB)	2Hz — 20kHz
Dynamic range	114dB	100dB
THD (1kHz)	0.0009%	0.0020%
wow & flutter	Precision of quartz	Precision of quartz
Output level	2.2V	2.2V
Digital output		
output level (cinch JACK)	—	0.5Vp-p (75Ω)
output level (optical)	—	-19dBm
Headphone output level	0.5W / 32Ω (max, Vol.)	0.5W / 32Ω (max, Vol.)
<b>Optical Readout System</b>		
Laser	AlGaAs	AlGaAs
Wave length	650nm	780nm
<b>Signal format</b>		
Sampling frequency	<b>1-bit DSD</b> 2.8224MHz	<b>16-bit linear PCM</b> 44.1kHz

## Power Supply

N Version ..... AC 230V 50Hz  
Power Consumption ..... 20W

## Cabinet, etc.

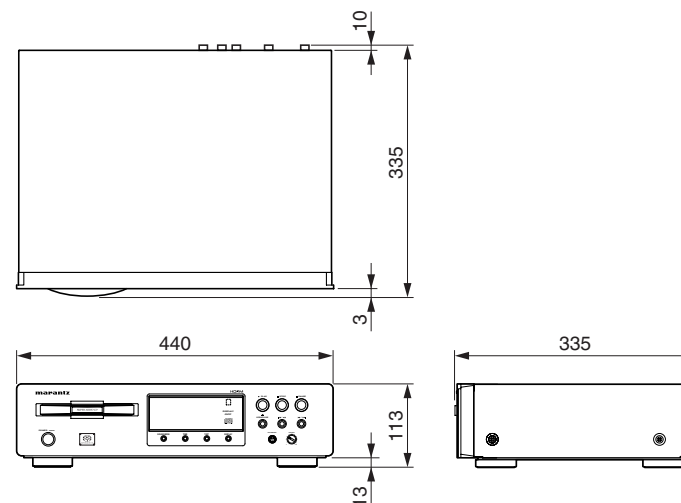
Dimensions (Width × Height × Depth) ..... 440 × 113 × 335mm  
Net weight ..... 7.5kg  
Operating temperatures ..... +5°C ~ +35°C  
Operating humidity ..... 5 ~ 90% (without dew)

## Accessories

• Remote control unit (RC8400SA) ..... 1  
Dimensions (Width × Height × Depth) ..... 48.5 × 21.5 × 152.5mm  
Net weight ..... 60g  
• AA (R6) Batteries ..... 2  
• AC Power cord ..... 1  
• Audio cable ..... 1  
• Remote connection Cable ..... 1  
• User's Guide ..... 1  
• Warranty Card ..... 1

Specifications subject to change without prior notice.

## ■ Dimensions (unit: mm)



**www.marantz.com**

You can find your nearest authorized distributor or dealer on our website.

<b>JAPAN</b>	Marantz Japan, Inc.	35-1 Sagami Ohno 7-Chome, Sagamihara-shi, Kanagawa 228-8505, Japan
<b>U.S.A.</b>	Marantz America, Inc.	1100 Maplewood Drive, Itasca, IL 60143, U.S.A.
<b>EUROPE</b>	Marantz Europe B.V.	P.O. Box 8744, 5605 LS Eindhoven, The Netherlands

**marantz**<sup>®</sup> is a registered trademark.

