

marantz®

Model DR-17 User Guide

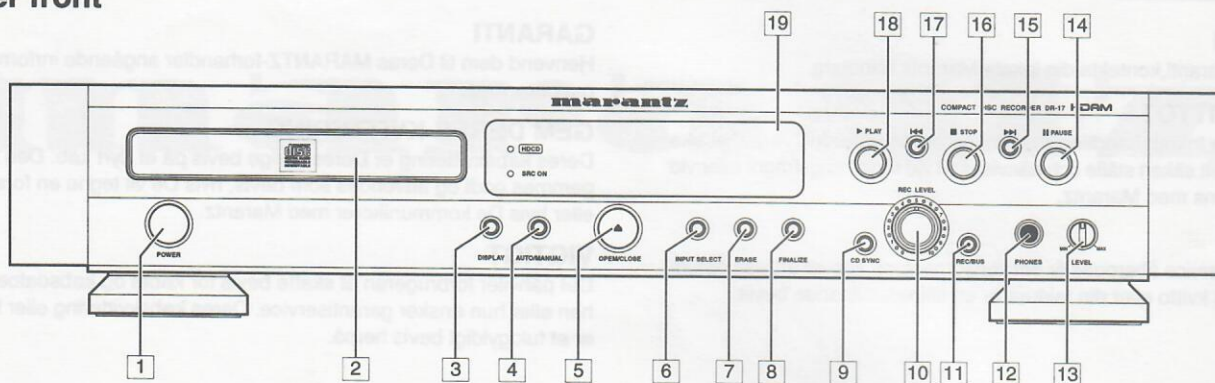
Compact Disc Recorder

CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT

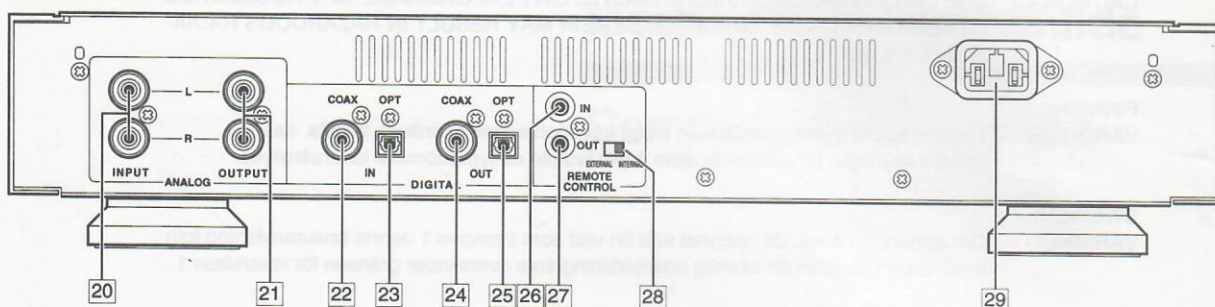
COMPACT
disc
DIGITAL AUDIO
Recordable
ReWritable

OPERATING BUTTONS

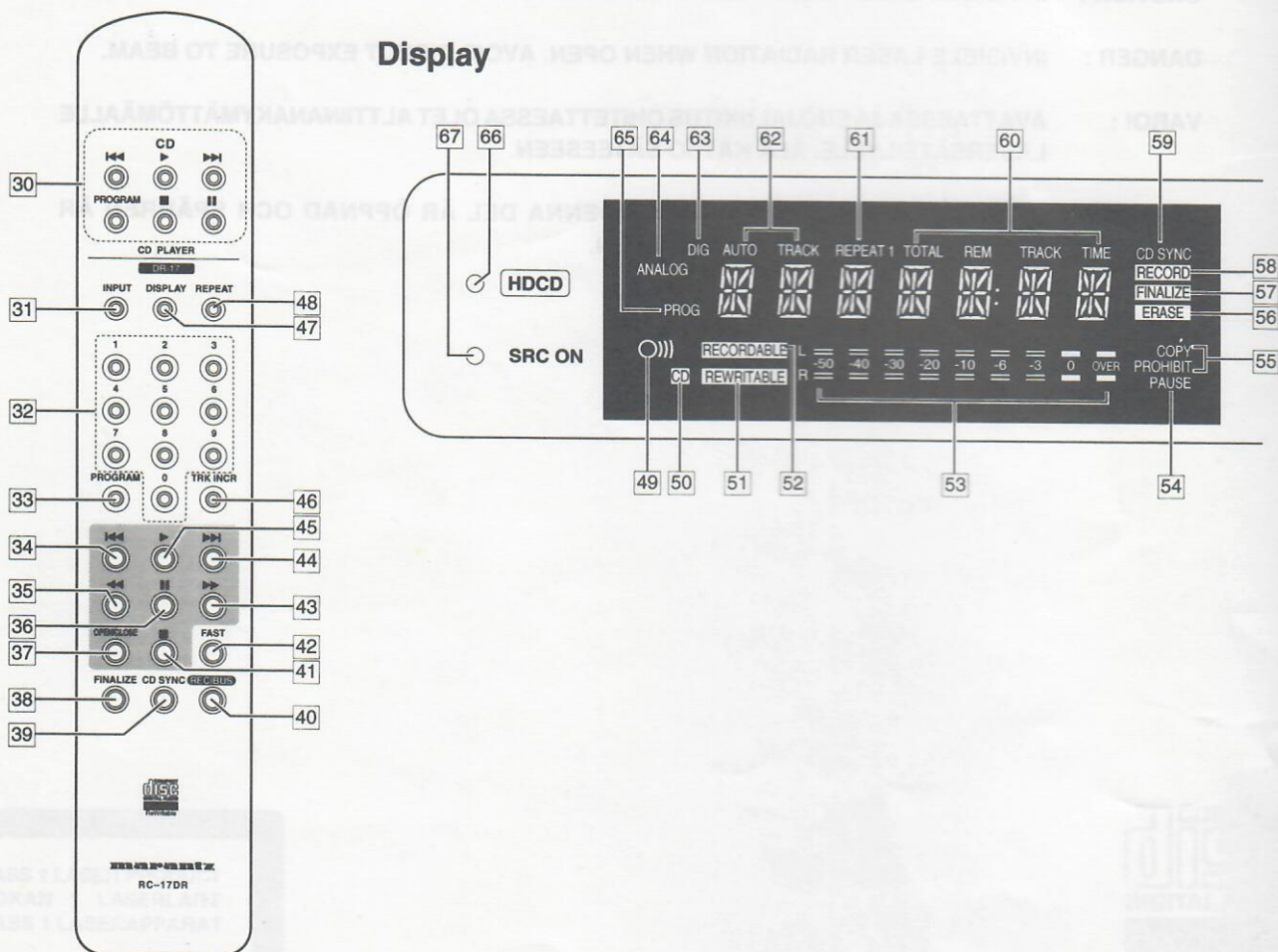
Player front



Player back



Remote control



INTRODUCTION

Foreword

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

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.

CE marking (only /N1 version)

CE This product is in conformity with the EMC directive and low-voltage directive.

Equipment mains working system

This Warentz product complies with the household power and safety requirements in your area.
 "N1" version product can be powered by 230 V AC only.

IMPORTANT: (FOR /UK. version only)

This apparatus is fitted with an approved moulded 13 Amp plug. To change a fuse in this type of plug proceed as follows:

1. Remove fuse cover and fuse.
2. Fit new fuse which should be a BS1362 5A, A.S.T.A. or BSI approved type.
3. Refit the fuse cover.

If the fitted plug is not suitable for your socket outlets, it should be cut off and an appropriate plug fitted in its place.

If the mains plug contains a fuse, this should have a value of 5A. If a plug without a fuse is used, the fuse at the distribution board should not be greater than 5A.

NOTE: The severed plug must be destroyed to avoid a possible shock hazard should it be inserted into a 13A socket elsewhere.

HOW TO CONNECT A PLUG

The wires in the mains lead are coloured in accordance with the following code:

BLUE—"NEUTRAL" ("N")
 BROWN—"LIVE" ("L")

1. The BLUE wire must be connected to the terminal which is marked with the letter "N" or coloured BLACK.
2. The BROWN wire must be connected to the terminal which is marked with the letter "L" or coloured RED.
3. Do not connect either wires to the earth terminal in the plug which is marked by the letter "E" or by the safety earth symbol \perp or coloured green or green-and-yellow.

Before replacing the plug cover, make certain that the cord grip is clamped over the sheath of the lead — not simply over the two wires.

Copyright

Recording and playback of some material may require permission. 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

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 DR-17 Compact Disc Recorder 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.

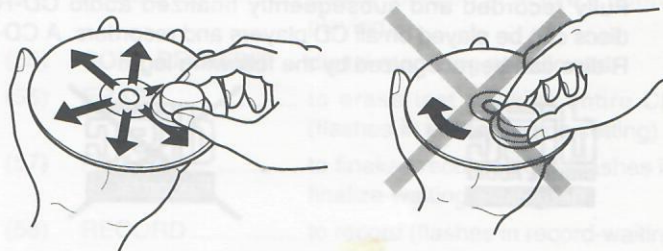
Handle discs carefully so as not to damage or scratch the front side.

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.

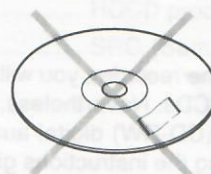
Up to six billion data units are recorded on the front side of the disc. When cleaning the disc surface, always be sure to use a special compact disc cleaner and wipe as shown below.



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 DR-17, 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.



INTRODUCTION

CD-Recorder

Congratulations on the acquisition of your CD-Recorder. This CD-Recorder now enables you to record, play and erase your own audio Compact Discs. Naturally the recorder can also be used to play all pre-recorded CDs.

With the exception of legal restrictions pertaining to copying, you can now create your own high-quality audio recordings on CD. The discs used to record must bear the logos shown below. Copyright fees have been paid on these discs in some countries. Recording on other types of discs (e.g. CD-R for professional recordings) is not possible.

There are two types of recordable AUDIO discs:

1 CD Recordable Audio (record once):

Fully recorded and subsequently finalized audio CD-R discs can be played on all CD players and recorders. A CD-R disc can be recognized by the following logo:



2 CD ReWritable Audio (multiple recording):

Recorded and finalized audio CD-RW discs can be played on all CD players and recorders that are suitable for CD-RW discs. An increasing number of players and recorders will be suitable for these discs in the future. A CD-RW disc can be recognized by the following logo:



Once you start using the recorder, you will discover how easy it is to 'make' your own CDs. Nevertheless, we recommend that you use an erasable (CD-RW) digital audio disc on your first attempt, while following the instructions given here.

Attention!

Recordings may only be made for personal use.

It is forbidden to copy material protected by copyright, including computer programs, films, television and audio recordings. This appliance may not be used for applications of this type.

Read the text carefully and keep the instructions close at hand so that you can refer to them if necessary.

UNPACKING/SETUP

Unpacking

First check the contents of the packaging. It should contain the following:

- CD-Recorder DR-17
- Remote control with batteries packaged separately
- Power cord
- Audio cables (2 - with red and white plugs)
- Digital coaxial audio cable (with black plugs)
- Remote control cable (with orange plugs)
- Instructions

If one of these components is missing, please inform your supplier immediately. Save the packaging material and the shipping spacer-- it may come in handy if you move the appliance.

Setup

- Place the recorder on a strong, vibration-free surface.
- Do not place the recorder near a source of heat or in direct sunlight.
- Do not use the recorder under extremely damp conditions.
- If the recorder is placed in a cabinet, make sure that a 2.5 cm space remains free on all sides of the recorder for proper ventilation.

Attention!

If the appliance is not used or operated in accordance with the instructions, this may result in exposure to dangerous radiation or other risks.

Only authorized technicians are allowed to open the appliance casing or to perform repairs or maintenance.

OPERATING BUTTONS

Player front

- (1) POWER turns the player on/off
- (2) Disc drawer
- (3) DISPLAY to select display information
- (4) AUTO/MANUAL to determine track number
- (5) ▲ OPEN/CLOSE ... opens/closes disc drawer
- (6) INPUT SELECT to select input signal
- (7) ERASE to erase recording
- (8) FINALIZE finalize recording
- (9) CD SYNC synchronized recording (automatic start when recording)
- (10) REC LEVEL (analog)
- (11) REC/BUS record
- (12) PHONES plug for headphones
- (13) LEVEL headphone volume
- (14) ■ PAUSE interrupt playing
- (15) ►► (NEXT) next track
- (16) ■ STOP to stop
- (17) ◀◀ (PREV) previous track
- (18) ► PLAY start to play or record
- (19) Display (information screen)

Player back

- (20) Analog input (left and right)
- (21) Analog output (left and right)
- (22) Digital input
- (23) Optical digital input
- (24) Digital output
- (25) Optical digital output
- (26) Remote control input
- (27) Remote control output
- (28) Remote control selector
- (29) Connection to mains

Remote control

- (30) CD control
- (31) INPUT select input signal
- (32) Number keys 0 - 9
- (33) PROGRAM select program
- (34) ◀◀ (PREV) previous track
- (35) ◀◀ search backward
- (36) ■ (PAUSE) interrupt playing
- (37) OPEN/CLOSE Open or close disc drawer
- (38) FINALIZE finalize
- (39) CD SYNC synchronized recording
- (40) REC/BUS record
- (41) ■ (STOP) stop
- (42) FAST fast search
- (43) ►► Search forward
- (44) ►► (NEXT) next track
- (45) ► (PLAY) play
- (46) TRK INCR determine track number

- (47) DISPLAY selection for information to be displayed

- (48) REPEAT repeat play

Display

- (49) Remote control is active
- (50) CD CD present (a pre-recorded CD or finalized CD-R or CD-RW disc)
- (51) REWRITABLE disc present for recording
- (52) RECORDABLE disc present for recording
- (53) Indication of recording and playing level
- (54) PAUSE pause function is active - during playing
- (55) COPY PROHIBIT ... digital recording not allowed
- (56) ERASE to erase last track or entire CD (flashes in erase-waiting setting)
- (57) FINALIZE to finalize recorded CD (flashes in finalize-waiting setting)
- (58) RECORD to record (flashes in record-waiting setting)
- (59) CD SYNC CD SYNC recording
- (60) Track number and duration
- (61) REPEAT repeat function activated during playing
- (62) AUTO TRACK automatically increasing track numbers
- (63) DIG digital input signal
- (64) ANALOG analog input signal
- (65) PROG playing based on program
- (66) HDCD HDCD processing is active
- (67) SRC ON SRC (Sample Rate Converter) is active

CONNECTIONS

The numbers between parentheses refer to the fold-out.

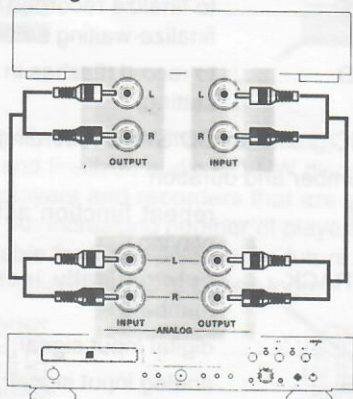
This CD-Recorder can be used to record directly or through a (pre-) amplifier from any digital or analog audio source. In addition, the appliance can be used as a regular CD player. Read how to connect the CD-Recorder based on the possibilities your other audio equipment offers. Please refer to the operating instructions for your other audio equipment first.

The following options are available:

- analog connections
- digital connections
- optical connections
- Remote control cable connections
 - D-BUS connection
 - BUS Recording connection

Analog connections

For recording and playing, connect (using the enclosed cable with red and white plugs) the CD-Recorder to an amplifier (preferably the CD-Recorder or TAPE connection) based on the diagram below:

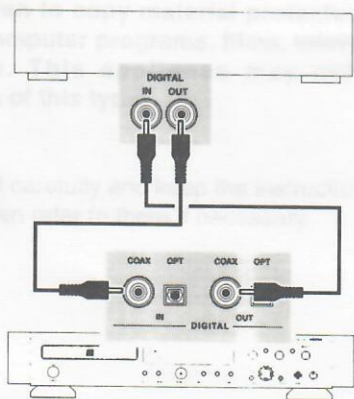


Note:

- Direct recordings can also be made from: CD player, tuner, analog satellite receiver, etc.
- For playing, the output (Left and Right) on the CD-Recorder (21) must be connected to the input of an amplifier (preferably CD-R or TAPE, AUX, etc., but not the PHONO input).

Digital connections

For recording and playing, connect (using a suitable coaxial cable, available from your supplier) the CD-Recorder to a digital amplifier based on the diagram below:

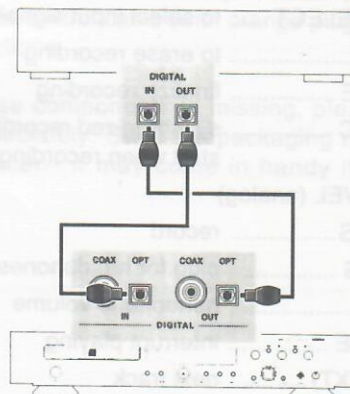


Note:

- Direct recordings can also be made from other digital sources, such as a CD player, tuner, DCC recorder, DAT recorder or digital satellite receiver.
- For playing, the digital output on the CD-Recorder (24) must be connected to the digital input of an amplifier (preferably CD-R or DCC, AUX, etc.).

Optical digital connections

For recording and playing (using the enclosed fiber-optic cable) connect the CD-Recorder to a digital amplifier (with optical connections) based on the diagram below. Before connecting the cables, remove the dust caps from the digital optical connections. We recommend that you save the caps.



Note:

- Direct recording can also be made from another digital source with optical connections, such as a CD player, DCC recorder, DAT recorder or digital satellite receiver.
- For playing, the optical digital output (25) on the CD-Recorder must be connected to the digital input on an amplifier.

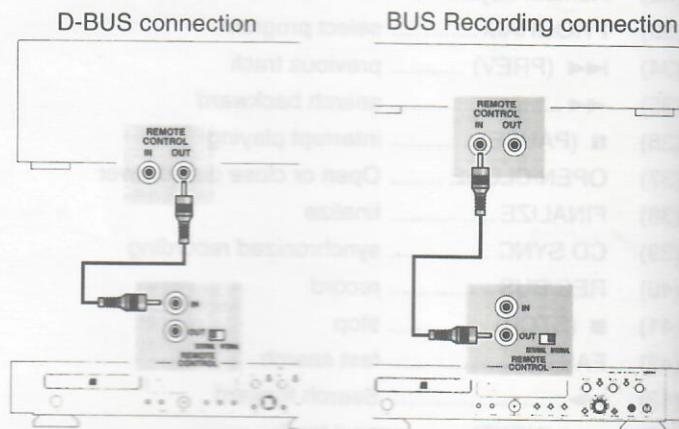
Remote control cable connections

D-BUS connection

By connecting the DR-17 to the Marantz amplifier using a D-BUS remote control cables, you can operate the operations of DR-17 from the remote control of the amplifier. Set the remote control selector to 'EXTERNAL'.

BUS Recording connection

By connecting the DR-17 to the Marantz CD player using a D-BUS remote control cables, you can operate the components remotely as a single system for both digital and analog recording. (See BUS Recording on page 10, 11.) For BUS Recording, connect (using the enclosed D-BUS cable with orange plug, and analog connections or digital connections or optical connection) the DR-17 to the Marantz CD player based on the diagram below: Set the remote control selector to 'INTERNAL'.

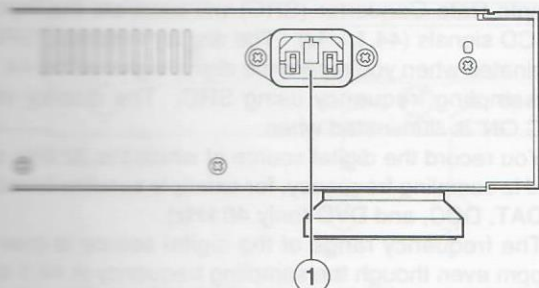


USING THE RECORDER

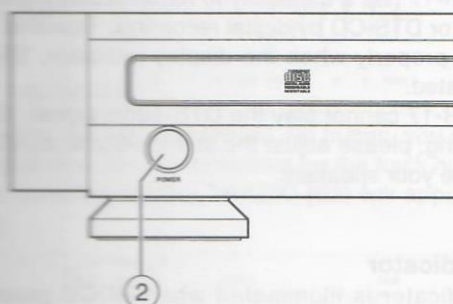
The numbers between parentheses refer to the fold-out.

Switching ON and OFF

- 1 Connect the plug on the mains cable in the proper connection point (29). Plug the cable into the mains.



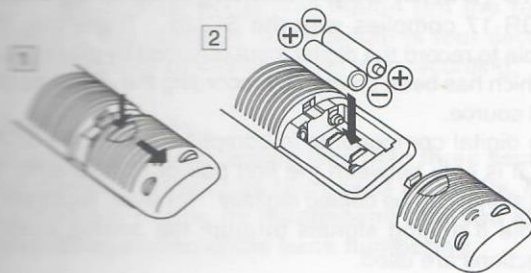
- 2 Press the **POWER** (1) button on the front of the CD-Recorder to turn it on (display will light up) or off.



Using the remote control

Inserting the batteries

- 1 Open the battery lid.
- 2 Insert two 'AAA' (R03 or UM-4) batteries in the manner indicated.
- 3 Replace the lid.



Attention!

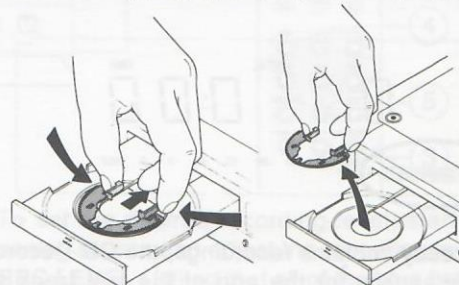
Do not use old and new batteries together.
Never use different types of batteries (standard, alkaline, etc.) together.

Note:

- The player cannot be switched on and off using the remote control.
- Always point the remote control directly towards the recorder and make sure there are no obstacles between the remote control and the appliance.
- When you press a button on the remote control, the indicator **Oil** (49) on the display of the CD-Recorder will light up.

Removing the shipping spacer

- 1 Press the **▲ OPEN/CLOSE** (5) button on the front of the appearance to open the disc drawer.
- 2 Remove the shipping spacer. (See the drawing below.)

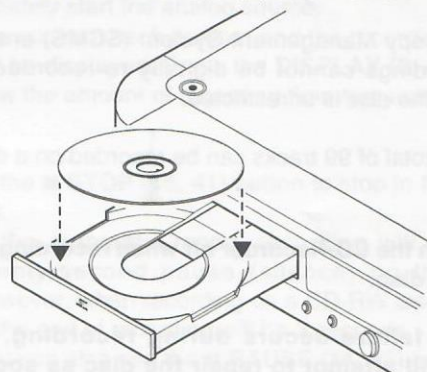


- 3 Press the **▲ OPEN/CLOSE** (5) button to close the drawer.

Inserting and removing discs

Inserting discs

- 1 Press the **▲ OPEN/CLOSE** (5) button on the front of the appliance to open the disc drawer.
- 2 Insert an appropriate disc (see introduction on page 2) in the appropriate area in the drawer with the label facing up.
- 3 Press the **▲ OPEN/CLOSE** (5) button to close the drawer.



Note:

- Check to ensure that the recording side of the disc is clean (See Disc Maintenance on page 14).
- If you insert a blank disc, or a non-finalized CD-R or CD-RW in the drawer, the recorder will calibrate the disc for optimum recording. During this process, the display will first show 'P P' and then the recording time used and the last track number.

Removing discs

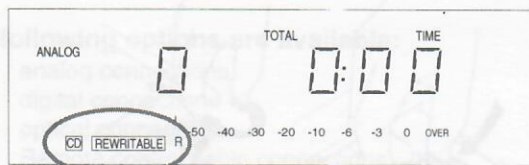
- 1 Press the **▲ OPEN/CLOSE** (5) button on the front of the appliance to open the disc drawer.
- 2 Remove the disc from the drawer.
- 3 Press the **▲ OPEN/CLOSE** (5) button to close the drawer.

BEFORE RECORDING

The numbers between parentheses refer to the fold-out.

General Comments

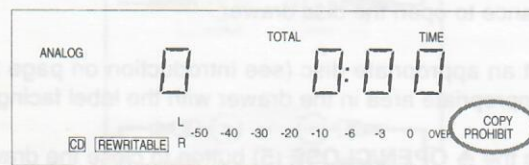
Insert the either a CD-R or CD-RW disc to enable the recording. (Make sure the disc is free of scratches and/or dust particles.) Make sure the display indicator 'CD-RECORDABLE' or 'CD-REWRITABLE' is on; the recording procedure is the same for both types of disc.



If the disc already contains recordings, the CD-Recorder will automatically search for the end of the last track so that recording can be started from there.

Recordings can only be made if there are at least seven seconds of recording time left on the disc. You can check this by pressing the **DISPLAY** (18, 47) button, after which the remaining recording time will be shown.

If the display indicates 'COPY PROHIBIT' (55), no digital recording can be made of the digital source material.



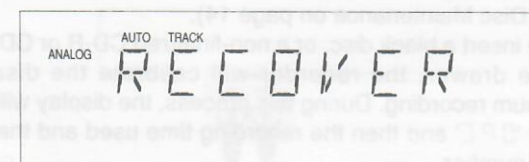
The Serial Copy Management System (SCMS) ensures that digital recordings cannot be digitally re-recorded. Analog recording of the disc is unrestricted.

A maximum total of 99 tracks can be recorded on a disc.

Attention!

Never switch the CD-Recorder off when recording; this can damage the disc.

If a power failure occurs during recording, the CD-Recorder will attempt to repair the disc as soon as the power is restored; during this procedure, the display will indicate 'RECOVER'.



Indicator

SRC ON indicator

Sample Rate Converter (SRC) will translate the input signal into CD signals (44.1 kHz). The display indicator, 'SRC ON' is illuminated when you record the digital signal at the 44.1 kHz of the sampling frequency using SRC. The display indicator, 'SRC ON' is illuminated when:

- You record the digital source of which the 32 kHz or the 48 kHz sampling frequency, for example satellite broadcasting, DAT, DCC, and DVD (only 48 kHz).
- The frequency range of the digital source is over ± 100 ppm even though the sampling frequency is 44.1 kHz such as CD or MD when you record.

Note:

- The DR-17 has a capability to record audio signal such as HDCD or DTS-CD by digital recording. However, it cannot record properly when the display indicator, 'SRC ON' is illuminated.
- The DR-17 cannot play the DTS-audio signal. During the recording, please adjust the sound volume carefully not to damage your speakers.

HDCD indicator

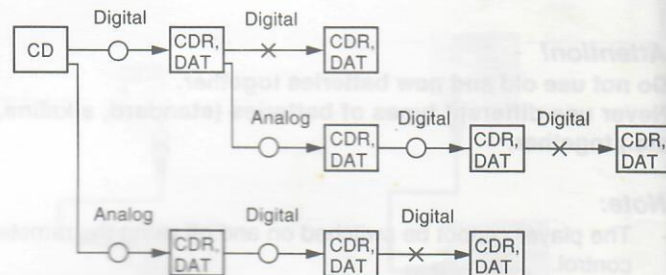
HDCD indicator is illuminated when HDCD processing is activated.

"HDCD", HDCD®, High Definition Compatible Digital® and Pacific Microsonics™ are either registered trademarks or trademarks of Pacific Microsonics, Inc. in the United States and/or other countries.

SCMS (Serial Copy Management System)

The DR-17 complies with the SCMS. Therefore, it is not possible to record the digital input obtained by playing a DAT or MD which has been created by recording the digital input from a digital source.

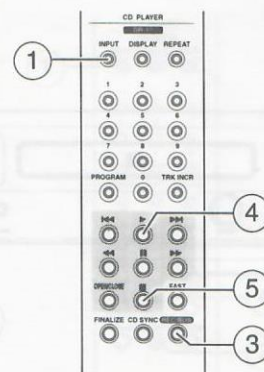
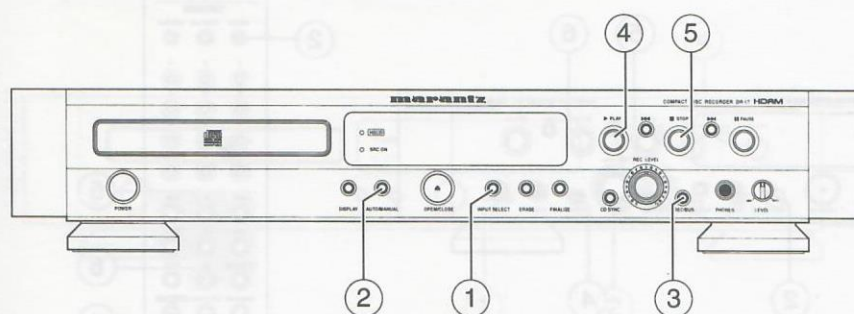
When digital components in compliance with the SCMS are used, it is only between the first pair of components that the digital signal can be copied digitally. However, repeated copy is possible if analog signals through the analog input/output connections are used.



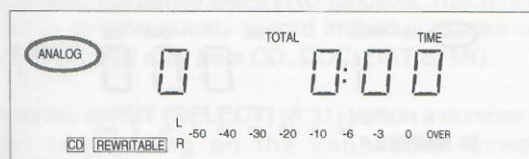
O : Can be recorded.
X : Cannot be recorded.

MANUAL RECORDING AN ANALOG SOURCE

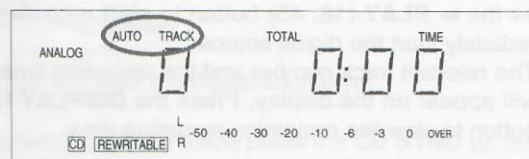
The numbers between parentheses refer to the fold-out.



- 1 Press the **INPUT (SELECT)** button (6,31) until 'ANALOG' (64) appears on the display.



- 2 By pressing the **AUTO/MANUAL** (4) button, you can option for manual or automatic increment for the track numbers. If Auto is selected, 'AUTO TRACK' (62) will appear on the display.



- With automatic increments, a new track number will be automatically added after a silence on the original of at least three seconds; track numbers cannot be added manually.
- With manual increments, you can add track numbers at any time during recording by pressing the **REC/BUS** (11, 40) or **TRK INCR** (46) button (on the remote control); the minimum track length is four seconds. Track numbers cannot be added after recording.

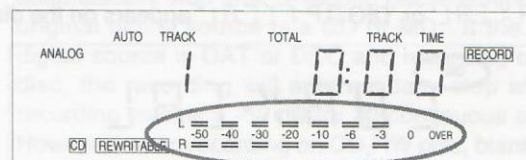
Attention!

If the original has pauses lasting less than three seconds, the track numbers should be increased manually. If you are recording from LP's, we recommend that you always select manual operation of the track numbering.

- 3 Switch the record-waiting setting on by pressing the **REC/BUS** (11, 40) button. The display indicator will start to flash 'RECORD' (58)



- To set the desired recording level, start playing the analog source and adjust the recording level using the **REC LEVEL** (10) so that all of the blue but none of the red segments light up on the recording and playing level indicator on the display (53) during the loudest fragments.



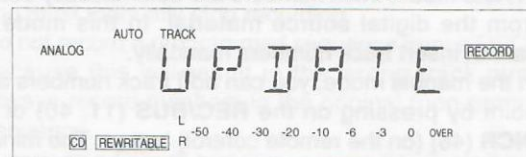
- If you want a period of silence at the beginning of a new number, press the **PAUSE** (14, 36) button. A three-second pause (silence) will be recorded.

- 4 Press the **PLAY** (18, 45) button to start recording, and immediately start the analog source.

- The relevant track number and the recording time used will be displayed. Press the **DISPLAY** (3, 47) button to view the amount of recording time remaining.

- 5 Press the **STOP** (16, 41) button to stop in the recording modes.

- In the automatic mode, recording will stop after a twenty-second pause (silence) on the original. However, when recording on a CD-RW disc, blank area at the end of recording will be 3 seconds.
- You can also use the **PAUSE** (14, 36) button instead of the **STOP** (16, 41) button if you want to make more than one recording.
- After recording, the temporary table of contents of the disc will be automatically up-dated. During this process, the display will indicate 'UPDATE'.

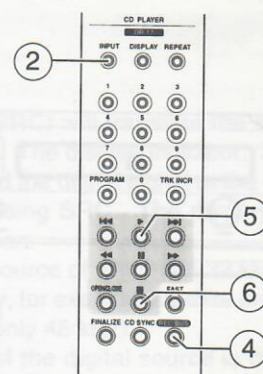
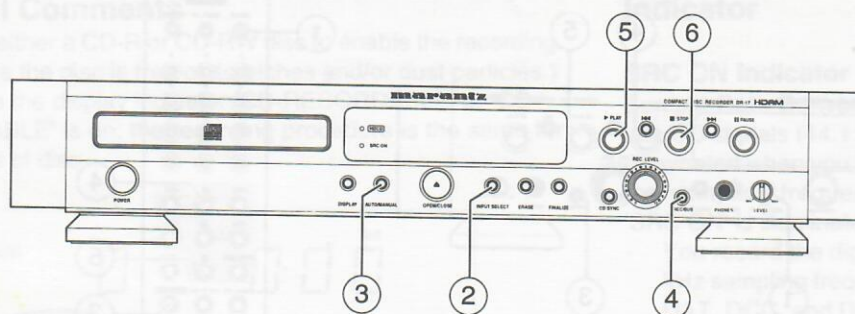


Attention!

If you want to play the disc in another, regular CD- player, the disc must be finalized. See 'Finalizing a disc' p. 12.

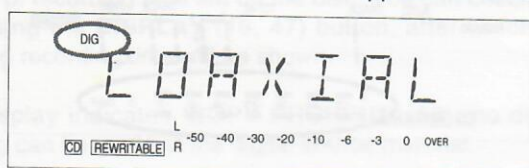
MANUAL RECORDING FROM A DIGITAL SOURCE

The numbers between parentheses refer to the fold-out.



In order to record from a CD, DCC, DAT or MD

- 1 Press the **PAUSE** button on the digital source.
- 2 Press the **INPUT (SELECT)** (6, 31) button a number of times until (depending on the connection used) 'DIG COAXIAL' or 'DIG OPTICAL' appears on the display.

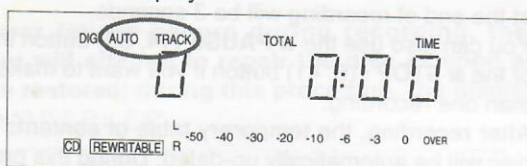


Note:

- With the DR-17, direct recordings can be made from sources with an 'Input Sample' Frequency of 44.1 kHz \pm 100 ppm. The Sample Rate Converter will then be automatically switched off. In all other cases, the Sample Rate Converter will translate the input signals into CD signals (44.1 kHz) and **SRC ON** indicator (67) is illuminated.

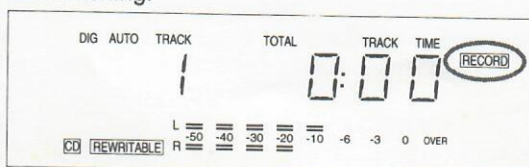


- 3 By pressing the **AUTO/MANUAL** (4) button, you can obtain incremental track numbers in either the auto or manual mode. If 'automatic' is selected, 'AUTO TRACK' (62) will appear on the display.

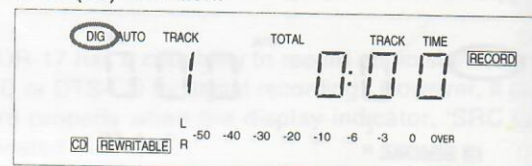


- In Auto mode, track numbers are automatically detected from the digital source material. In this mode, you cannot insert track numbers manually.
- In the manual mode, you can add track numbers at any point by pressing on the **REC/BUS** (11, 40) or **TRK INCR** (46) (on the remote control) button. The minimum track length is four seconds. Increments cannot be inserted after recording.

- 4 Activate the record-waiting setting by pressing the **REC/BUS** (11, 40) button. The display indicator 'RECORD' (58) will start flashing.



- If the digital connection is incorrect, the display indicator 'DIG' (63) will flash.



- If you want a pause at the beginning of a new number press the **PAUSE** (14, 36) button. A three-second pause (silence) will then be recorded.

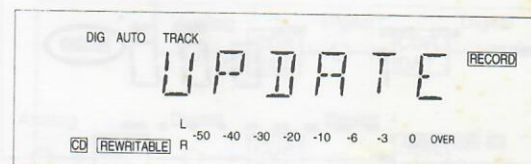
- 5 Press the **PLAY** (18, 45) button to start recording and immediately start the digital source.
- The relevant track number and the recording time used will appear on the display. Press the **DISPLAY** (3, 47) button to view the remaining recording time.

- 6 Press the **STOP** (16, 41) button to stop recording in either the manual or automatic mode.

- When 'AUTO TRACK' is selected, the recording will automatically stop after 3-second pause (silence) if the original digital source is a CD or MD. If the original digital source is DAT or DCC and recording on CD-R disc, the recording will automatically stop when the recording level is > -50 dB for 20 continuous seconds. However, when recording on CD-RW disc, blank area at the end of recording will be 3 seconds.

Note:

- You can also use the **PAUSE** (14, 36) button instead of the **STOP** (16, 41) button if you want to make more than one recording.
- After recording, the temporary table of contents will be automatically up-dated. During this process, the display will indicate 'UPDATE'.



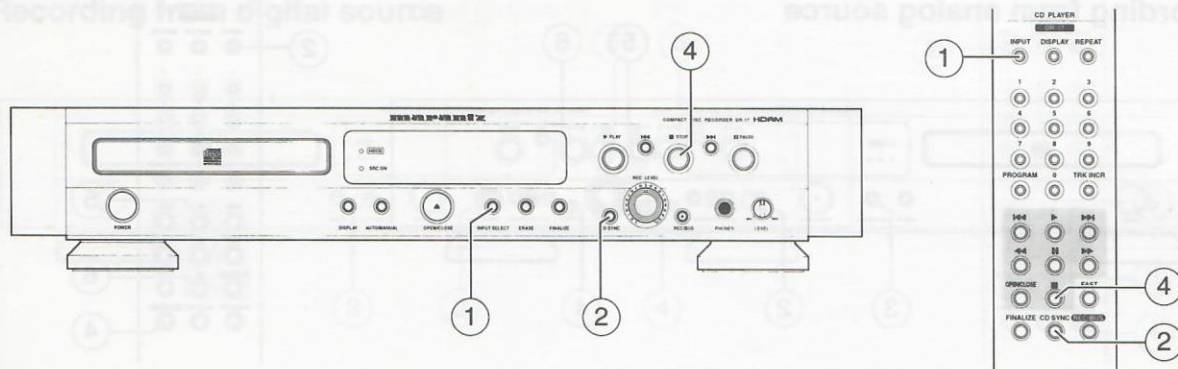
Attention!

If you want to play the disc in a different, regular CD-player, the disc must be finalized. See 'Finalizing a disc' P. 12

AUTOMATIC RECORDING FROM A DIGITAL SOURCE

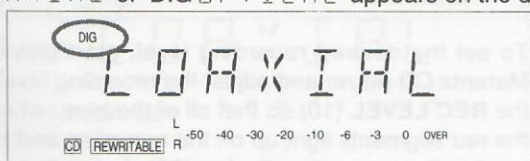
The numbers between parentheses refer to the fold-out.

ENGLISH



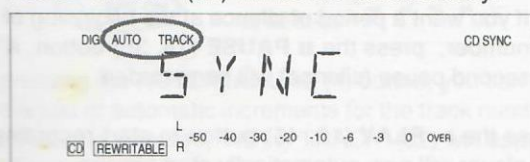
In order to make recordings easily and quickly, the recorder is equipped with the handy CD-SYNC function. This function can be used to synchronously record individual tracks or entire discs. The original may be a CD, DCC, DAT or MD.

- 1 Press the **INPUT (SELECT)** (6,31) button a number of times until (depending on the connection used) 'DIG COAXIAL' or 'DIG OPTICAL' appears on the display.

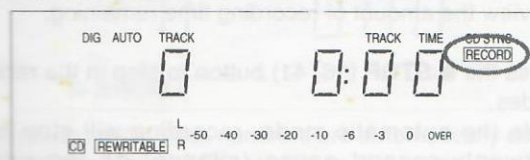


→ Do not start the digital source yet.

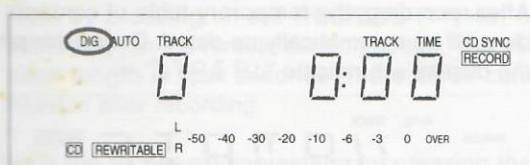
- 2 To record a single track, press the **CD SYNC** (9, 39) button once to record one track; 'SYNC - 1' will appear on the display. To record all tracks, press the **CD SYNC** (9, 39) button twice in rapid succession to record all tracks; 'SYNC' will appear on the display.
→ 'AUTO TRACK' (62) will be set automatically.



→ Wait until the record-waiting setting is activated and the display indicator 'RECORD' (58) starts to flash.



→ If the digital connection is incorrect, the display indicator 'DIG' (63) will flash.



- 3 Press the **PLAY** button on the digital source.
→ The CD-Recorder will now automatically start to record. If you start the source in the middle of a track, automatic Synchro recording will not commence until the beginning of the next track.
→ The relevant track number and the recording time used will appear on the display.

→ To view the recording time remaining, press the **DISPLAY** (3, 47) button.

- 4 Press the **STOP** (16, 41) button to stop recording.
→ Because 'AUTO TRACK' is selected, the recording will automatically stop after 3-second pause (silence) if the original digital source is a CD or MD. If the original digital source is DAT or DCC and recording on CD-R disc, the recording will automatically stop when the recording level is > -50 dB for 20 continuous seconds. However, when recording on CD-RW disc, blank area at the end of recording will be 3 seconds.

Note:

- You can also use the **PAUSE** (14, 36) button instead of the **STOP** (16, 41) button to make more than one recording.
- Do not use the **PAUSE** (14, 36) button between the tracks for the digital source before the recording. Some digital sources might not work in the SYNC-1 function.
- After recording, the temporary table of contents will be automatically up-dated. During this process, the display will indicate 'UPDATE'.



Attention!

If you want to play the disc on a different, regular CD player, the disc must be finalized first. See 'Finalizing a disc' on page 12.

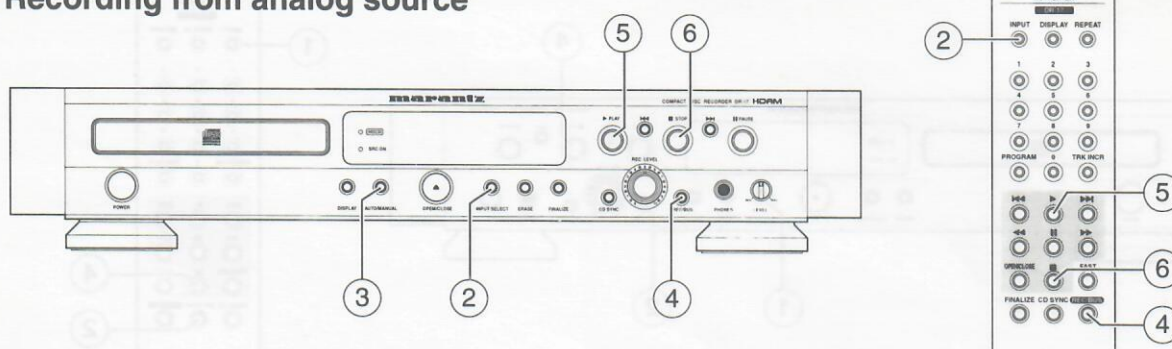
Note:

- If you do not want a twenty-second pause to be recorded, you must manually stop recording.
- Do not record a programmed sequence from a DCC or DAT, because this will result in the wrong track numbering. Always record numbers in the original (non-programmed) sequence.
- A track on a CD will sometimes immediately start with music information. The CD-Recorder will not start unless it recognizes a digital signal. Although the reaction time is less than 400 milliseconds, a fraction of the beginning of a number may sometimes not be completely recorded. If this happens, you can either start the recording manually or use the BUS recording (see 'MANUAL RECORDING FROM A DIGITAL SOURCE' or 'BUS RECORDING FROM A DIGITAL SOURCE').

BUS RECORDING

The numbers between parentheses refer to the fold-out.

BUS Recording from analog source

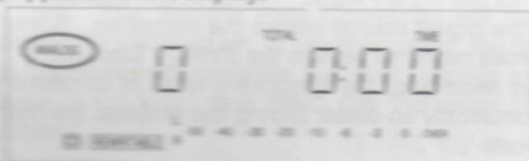


BUS Recording

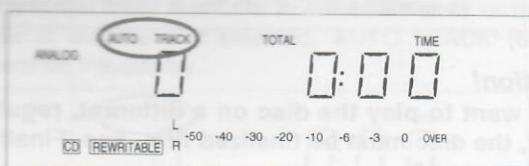
By connecting the DR-17 to another Marantz CD player using a D-BUS remote control cable, you can operate the components remotely as a signal system for both digital and analog recording. Especially when you choose the digital source, you can record from the beginning of the track automatically. (See BUS Recording connections on page 4.)

Recommended models: Marantz CD players
CD-17/67/63 series, CC-48/38

- 1 Press the **PAUSE** button on the Marantz CD player.
- 2 Press the **INPUT (SELECT)** button (6,31) until 'ANALOG' (64) appears on the display.



- 3 By pressing the **AUTO/MANUAL** (4) button, you can option for manual or automatic increment for the track numbers. If Auto is selected, 'AUTO TRACK' (62) will appear on the display.

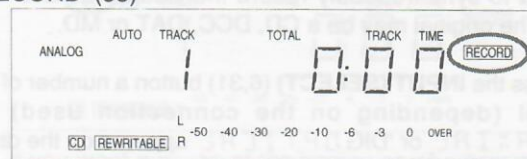


- With automatic increments, a new track number will be automatically added after a silence on the original of at least three seconds; track numbers cannot be added manually.
- With manual increments, you can add track numbers at any time during recording by pressing the **REC/BUS** (11, 40) or **TRK INCR** (46) (on the remote control) button; the minimum track length is four seconds. Track numbers cannot be added after recording.

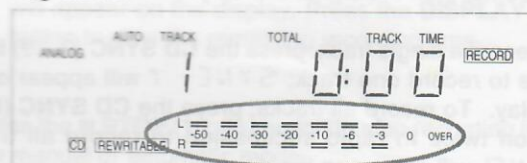
Attention!

If the original has pauses lasting less than three seconds, the track numbers should be increased manually. If you are recording from LP's, we recommend that you always select manual operation of the track numbering.

- 4 Switch the record-waiting setting on by pressing the **REC/BUS** (11, 40) button. The display indicator will start to flash 'RECORD' (58)



- To set the desired recording level, start playing the Marantz CD player and adjust the recording level using the **REC LEVEL** (10) so that all of the blue but none of the red segments light up on the recording and playing level indicator on the display (53) during the loudest fragments.



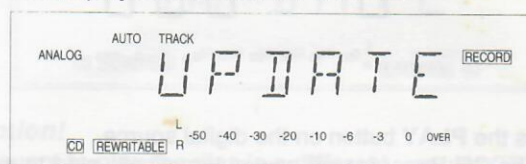
- If you want a period of silence at the beginning of a new number, press the **PAUSE** (14, 36) button. A three-second pause (silence) will be recorded.

- 5 Press the **PLAY** (18, 45) button to start recording. The CD player will now automatically start playing.

- The relevant track number and the recording time used will be displayed. Press the **DISPLAY** (3, 47) button to view the amount of recording time remaining.

- 6 Press the **STOP** (16, 41) button to stop in the recording modes.

- In the automatic mode, recording will stop after a twenty-second pause (silence) on the original. However, when recording on a CD-RW disc, blank area at the end of recording will be 3 seconds.
- After recording, the temporary table of contents of the disc will be automatically up-dated. During this process, the display will indicate 'UPDATE'.



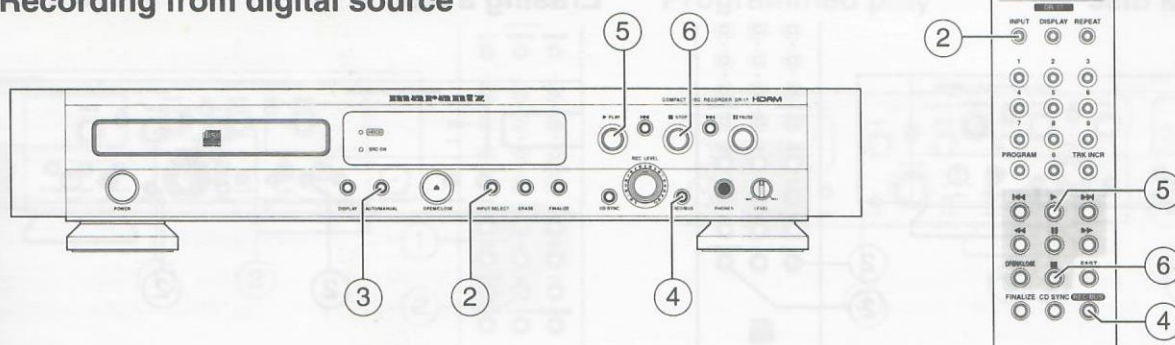
Attention!

If you want to play the disc in another, regular CD- player, the disc must be finalized. See 'Finalizing a disc' p. 12.

BUS RECORDING

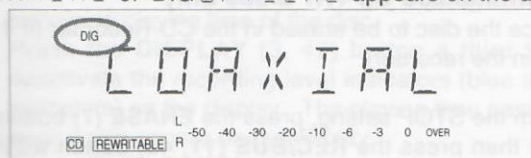
The numbers between parentheses refer to the fold-out.

BUS Recording from digital source



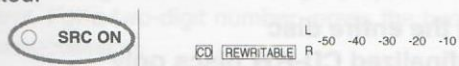
In order to record from a Marantz CD player.

- 1 Press the **PAUSE** button on the Marantz CD player.
- 2 Press the **INPUT (SELECT)** button (6, 31) a number of times until (depending on the connection used) 'DIG COAXIAL' or 'DIG OPTICAL' appears on the display.

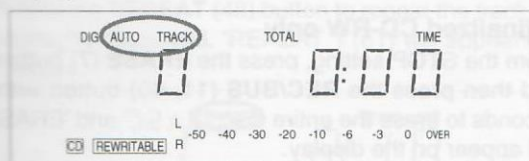


Note:

- With the DR-17, direct recordings can be made from sources with an 'Input Sample' Frequency of 44.1 kHz +/- 100 ppm. The Sample Rate Converter will then be automatically switched off. In all other cases, the Sample Rate Converter will translate the input signals into CD signals (44.1 kHz) and **SRC ON** indicator (67) is illuminated.

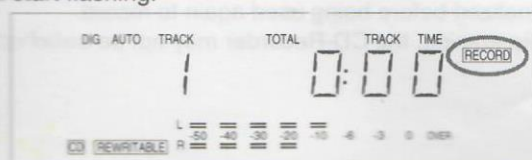


- 3 By pressing the **AUTO/MANUAL** (4) button, you can option for manual or automatic increments for the track numbers. If 'automatic' is selected, 'AUTO TRACK' (62) will appear on the display.

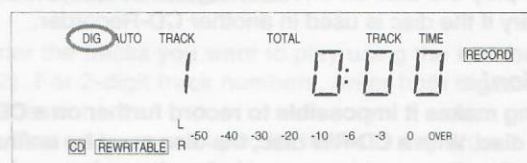


- In Auto mode, track numbers are automatically detected from the Marantz CD player. In this mode, you cannot insert track numbers manually.
- In the manual mode, you can add track numbers at any point by pressing on the **REC/BUS** (11, 40) or **TRK INCR** (46) (on the remote control) button. The minimum track length is four seconds. Increments cannot be inserted after recording.

- 4 Activate the record-waiting setting by pressing the **REC/BUS** (11, 40) button. The display indicator 'RECORD' (58) will start flashing.



- If the digital connection is incorrect, the display indicator 'DIG' (63) will flash.



- If you want a pause at the beginning of a new number, press the **PAUSE** (14, 36) button. A three-second pause (silence) will then be recorded.

- 5 Press the **PLAY** (18, 45) button to start recording. The CD player will now automatically start playing.
→ The relevant track number and the recording time used will appear on the display. Press the **DISPLAY** (3, 47) button to view the remaining recording time.
- 6 Press the **STOP** (16, 41) button to stop recording in either the manual or automatic mode.

- When you select 'AUTO TRACK' recording will stop after a three-second pause (silence) on the original.

Note:

- After recording, the temporary table of contents will be automatically up-dated. During this process, the display will indicate 'UPDATE'.



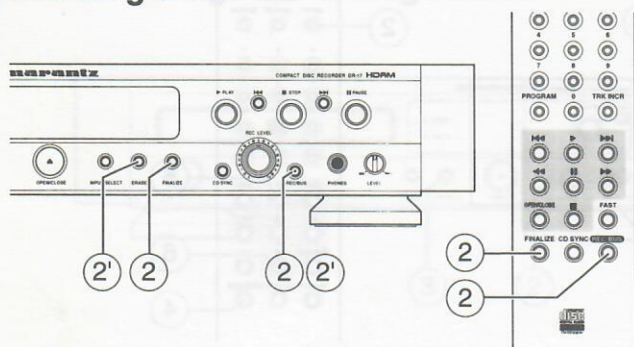
Attention!

If you want to play the disc in a different, regular CD-player, the disc must be finalized. See 'Finalizing a disc' P. 12.

FINALIZING/UNFINALIZING

The numbers between parentheses refer to the fold-out.

Finalizing a disc



Finalizing is an extremely simple procedure that is necessary in order to play the disc on another, regular CD player. It is not necessary if the disc is used in another CD-Recorder.

Attention!

Finalizing makes it impossible to record further on a CD-R or CD-RW disc. With a CD-RW disc, the disc must be unfinalized or the entire disc must be erased before it can be used again.

To start finalizing

- 1 Place the disc you want to finalize in the CD-Recorder (if it is not yet in the recorder).
- 2 From the STOP setting, press the **FINALIZE** (8, 38) button and then the **REC/BUS** (11, 40) button within two seconds. The approximate finalization time will be shown on the display and will be at least two minutes.
→ During finalization, the display will count the time down. Finalization is complete when the total number of tracks and the total time recorded appears in the display.

Note:

- During finalization, the CD-Recorder will not accept any operating commands.
- In order to prevent damages to the disc, the CD-Recorder may not be switched off or disconnected during finalization.

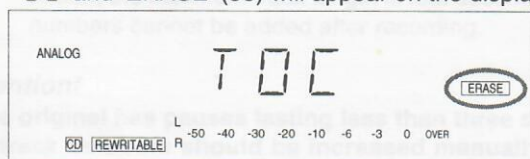
Unfinalizing a disc

For CD-RW discs only

If you want to make more recordings (or erase of tracks) on a finalized disc you must unfinalize it first. The Table of Contents (TOC) will be removed.

To start unfinalizing

- 1 Place the disc you want to unfinalized in the CD-Recorder (if it is not yet in the recorder).
- 2 From the STOP setting, press the **ERASE** (7) button twice within two seconds, and then press the **REC/BUS** (11, 40) button within two seconds to unfinalize the CD-RW disc; 'T O C' and 'ERASE' (56) will appear on the display.



→ This will take approximately one minute.

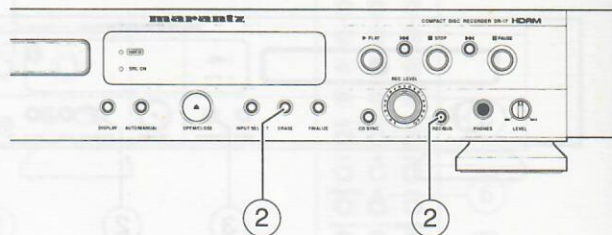
Note:

- During unfinalization, the CD-Recorder will not accept any operating commands.
- In order to prevent damages to the disc, the CD-Recorder may not be switched off or disconnected during unfinalization.

ERASING

The numbers between parentheses refer to the fold-out.

Erasing a disc



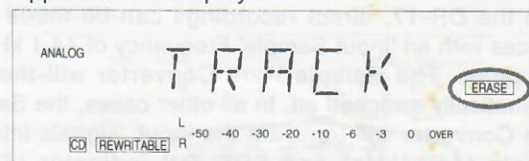
With a CD-RW disc, recordings can be erased and replaced by a new recording.

There are two options:

Erasing the last recording

For unfinalized CD-RW discs only

- 1 Place the disc to be erased in the CD-Recorder (if it is not yet in the recorder).
- 2 From the STOP setting, press the **ERASE** (7) button once and then press the **REC/BUS** (11, 40) button within two seconds to erase the last track; 'T R A C K' and 'ERASE' (56) will appear on the display.



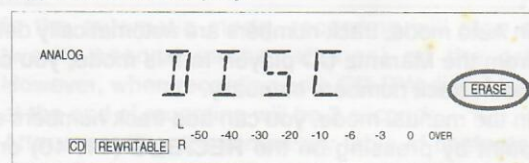
Erasing the entire disc

For unfinalized CD-RW discs only

- 1 From the STOP setting, press the **ERASE** (7) button twice within two seconds, and then press the **REC/BUS** (11, 40) button within two seconds to erase the entire disc; 'D I S C' and 'ERASE' (56) will appear on the display.

For finalized CD-RW only

- 1 From the STOP setting, press the **ERASE** (7) button once, and then press the **REC/BUS** (11, 40) button within two seconds to erase the entire disc; 'D I S C' and 'ERASE' (56) will appear on the display.



→ This process may take up to 1.5 minutes.

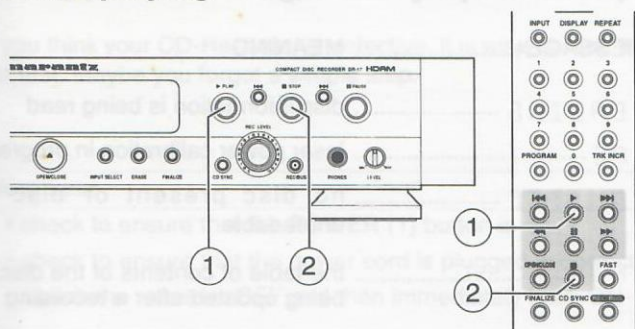
Note:

- Before the disc is finalized, the last track recorded can be erased.
- A finalized disc must be completely erased or must be unfinalized before being used again to record.
- While erasing, the CD-Recorder may not be switched off.

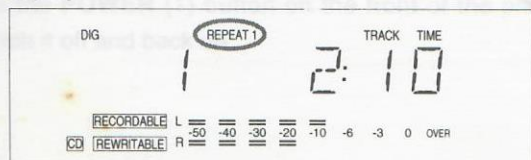
PLAYBACK

The numbers between parentheses refer to the fold-out.

Normal playing

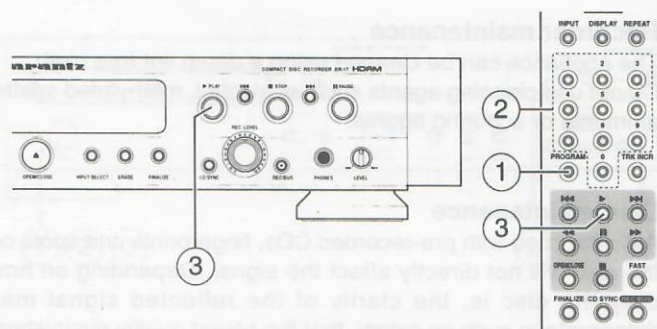


- 1 Press the **▶ PLAY** (18, 45) button to start playing (this button may be pressed when the disc drawer is either open or closed). The relevant track number and the playing time passed will appear on the display.
 - Press the **DISPLAY** (3, 47) button to view the remaining playing time of the track.
 - Press the **DISPLAY** (3, 47) button twice to view the total remaining playing time of the disc.
 - Press the **DISPLAY** (3, 47) button a third time to deactivate the recording level indicators (blue and red indicators) on the display. The playing time passed will once again appear on the display.
 - Press the **⏸ PAUSE** (14, 36) button to temporarily interrupt playing. Press this button again to continue playing.
 - Press the **⏭ (NEXT)** (15, 44) button to go to the next track.
 - Press the **⏮ (PREV)** (17, 34) button to go to the previous track.
 - You can select any track number by pressing the track number using the **number keys** (32) on the remote control. For a two-digit number, press the two digits in rapid succession.
 - Press the **⏭ (43)** or **⏮ (35)** button to search forward or backward at twice the playing speed.
 - Press the **FAST** (42) button and then the **⏭ (43)** or **⏮ (35)** button to search forward or backward at eight times the playing speed.
 - Press the **REPEAT** (48) button to repeat the track that is currently displayed. 'REPEAT 1'(61) will appear on the display.



- Press the **REPEAT** (48) button again to repeat the entire disc or pre-programmed sequence. 'REPEAT' will appear on the display.
- 2 Press the **■ STOP** (16, 41) button to stop playing.

Programmed play



- 1 With the CD-Recorder stopped, press the **PROGRAM** (33) button on the remote control.
- 2 Enter the tracks you want to play using the **number keys** (32). For 2-digit track numbers, enter both digits in quick succession.
 - You can program up to 20 tracks in any order.
- 3 To play your program, press the **▶ PLAY** (18, 45) button.
 - To cancel the program, press the **■ STOP** (16, 41) button twice, or open the disc.

HD CD Technology

HD CD - High Definition Compatible Digital - is a patented process for delivering on digital media the full richness and detail of the original microphone feed. When listening to HD CD recordings, you will hear more dynamic range and very natural vocal and musical timbre. With HD CD, you get the body, depth and emotion of the original performance - not a flat, digital image.

HD CD encoded CDs sound better because they are encoded with 20 bits of real music information, compared to 16 bits for all other CDs. HD CD overcomes the limitations of the 16-bit CD format by using a sophisticated system to encode the additional 4 bits onto the CD while remaining completely compatible with the CD format.

In addition, HD CD Precision Digital Filtering has the benefit of improving the sound of all digital recordings. This means that the Marantz DR-17, equipped with HD CD, will improve the sound of all digital recordings, whether mastered with HD CD or not.

OTHER INFORMATIONS

Maintenance

Recorder maintenance

The appliance can be cleaned using a damp lint free cloth. Do not use cleaning agents such as alcohol, methylated spirits, ammonia or scouring agents.

Disc maintenance

As is the case with pre-recorded CDs, fingerprints and spots on the disc will not directly affect the signal. Depending on how dirty the disc is, the clarity of the reflected signal may deteriorate to such an extent that the sound quality diminishes.

- To write on the printed side of a CD-R, use a felt-tipped pen; never use a pen with a hard point (such as a ball-point) because this could damage the recording.
- Keep the shiny side of the disc clean. Use a non-fluffy cloth and always wipe in a straight line from the centre to the edge.



- Never use cleaning agents for conventional records.
- Never use other cleaning agents or scouring agents.
- Never leave the disc in direct sunlight and do not subject the disc to extremely high temperatures.

Specific display messages

MESSAGE MEANING

READING	disc information is being read
OPC	laser power calibration in progress
NO DISC	no disc present or disc is unreadable
UPDATE	the table of contents of the disc is being updated after a recording
WAIT	the player is performing internal actions
FULL	the playback program already contains twenty numbers; it is full
CD FULL	there is no room for additional recording
EMPTY	the disc contains no recordings; it cannot be finalized
INPUT	no digital input was selected for CD-SYNC
FINAL	OPC has been performed 96 times (maximum number of calibrations); the disc must be finalized
RECOVER	recovery procedure performed automatically after power failure during recording. If this procedure fails, the CD-R disc - unlike the CD-RW disc - may no longer be usable
OPCFAIL	OPC has failed; disc is damaged or player is defective
SERVICE	recorder's self-test has failed; see 'Fixing problems'; contact your supplier

OTHER INFORMATIONS

The numbers between parentheses refer to the fold-out.

Fixing problems

If you think your CD-Recorder is defective, it is wise to read this list first. Maybe you forgot a simple step.

No power

- check to ensure that the **POWER** (1) button is on.
- check to ensure that the power cord is plugged in correctly
- switch the recorder OFF and then immediately back ON

No sound

- check the audio connections
- if using an amplifier, try using a different source

Amplifier sound is distorted

- the line outputs on the CD-Recorder may be connected to the PHONO input; make sure this is not the case

Play will not start

- check to ensure that the label of the CD is facing up
- clean the disc (see on page 1,14)
- check that the disc is not defective by trying another disc

Remote control does not work

- point the remote control directly at the CD-Recorder
- check the batteries and replace if necessary

Will not record

- no recordable disc has been inserted
- check the disc and replace if necessary
- the disc is not an audio disc

Recording is distorted

- make sure the recording level was not too high

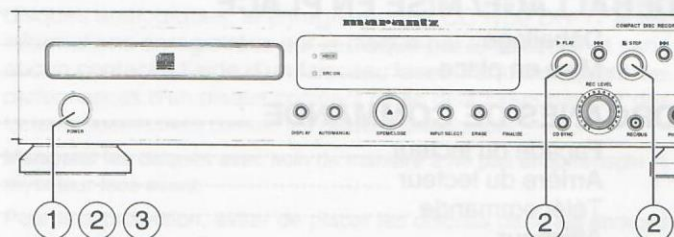
20 second pause between recordings

- see 'Automatic recording from a digital source' CD SYNC p. 9

Player does not react

- use the **POWER** (1) button on the front of the player to switch it off and back on

Diagnostic Program



If the malfunction continues, perform the Diagnostic Program:

- 1 Switch the recorder off using the **POWER** (1) button .
- 2 Simultaneously press the ► **PLAY** (18) and ■ **STOP** (16) buttons and switch the recorder back on using the **POWER** (1) button.
 - The display will now indicate 'BUSY'.
 - After a few minutes, the message will change to 'ERROR' or 'PASSED'.
 - If the ERROR message appears, your recorder is defective and needs to be repaired. Consult your supplier or call the Marantz Consumer Line to find the nearest service centre. The number of the Consumer Line can be found in the warranty booklet.
 - If the 'PASSED' message appears, there is no clear defect and the malfunction may be a result of misinterpretation of the user instructions, an inappropriate disc, a mechanical defect or an incorrect connection. To solve this problem, carefully read the user instructions once again; you can also contact your supplier.
 - If you cannot solve the problem, go to the nearest service centre.
- 3 Switch off the recorder using the **POWER** (1) button to exit from the Diagnostic Program.

TECHNICAL SPECIFICATIONS

GENERAL

System	Compact disc digital audio
Number of channels	2 (stereo)
Applicable discs	CD, CD-R (digital audio), CD-RW (digital audio)
Power Requirement	AC 230 V 50 Hz
Power Consumption	25 W
Operating Temperature	5 - 35 °C
Dimension (MAX)	
Width	458 mm
Height	83 mm
Depth	324 mm
Weight	8.0 Kg

AUDIO

Frequency Response	20 Hz - 20 kHz
Playback S/N	105 dB
Playback Dynamic Range	98 dB
Playback Total Harmonic Distortion	90 dB
Recording S/N	90 dB
Recording Dynamic Range	95 dB
Recording Total Harmonic Distortion	85 dB
Digital Coaxial Output	0.5 V (p-p)/75 Ω
Line Output Voltage	
General CD	2 Vrms
CD with HDCD	4 Vrms
Digital Optical Output	- 20 dB
Headphones	0 - 5 Vrms/ 8 - 2000 Ω

Recording values for line input

Digital Coaxial Input (automatic sample rate conversion)	32 - 48 kHz
Digital Optical Input (automatic sample rate conversion)	32 - 48 kHz
Analog Input	500 mVrms/ 50 k Ω

Specifications subject to change without prior notice.

COUNTRY	COMPANY	ADDRESS
AUSTRALIA	Scan audio Pty. Ltd.	4 Station Street, Thornleigh NSW 2120, Australia
AUSTRIA	Huber & Prohaska GmbH	Taborstraße 95 / Ladestraße 1, Gebäude Hangartner, A-1200 Wien, Austria
BELGIUM	Van der Heyden Audio N.V.	Brusselbaan 278, 9320 Erembodegem, Belgium
BULGARIA	Ariescommerce GmbH	Makedonia Blvd. 16, 1606 Sofia, Bulgaria
CANADA	Lenbrook Industries Limited	633 Granite Court, Pickering, Ontario
CYPRUS	Empire Hifi systems Ltd.	P.O. Box 5604, Nicosia, Cyprus
CZECH REPUBLIC	Audio International	Fugnerova 1, 67801 Blansko, Czech Republic
DENMARK	Hi-Fi Klubben Denmark	Aboulevarden 1, DK-8000 Arhus C., Denmark
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