

Audio CD Recorder

CDR570

- *Instructions for use*
- *Mode d'emploi*
- *Instrucciones de manejo*



Let's make things better.



PHILIPS

CONTENTS

English	7	English
Français.....	27	Français
Español	49	Español

LIMITED WARRANTY

CD-R PLAYER

One Year Free Labor

One Year Exchange Warranty on Parts

This product must be carried in for repair.

WHO IS COVERED?

You must have proof of purchase to receive warranty service. A sales receipt or other document showing that you purchased the product is considered proof of purchase.

WHAT IS COVERED?

Warranty coverage begins the day you buy your product. *For one year thereafter*, all parts will be repaired or replaced, and labor is free. *After one year from the day of purchase*, you pay for the replacement or repair of all parts, and for all labor charges.

All parts, including repaired and replaced parts, are covered only for the original warranty period. When the warranty on the product expires, the warranty on all replaced and repaired parts also expires.

WHAT IS EXCLUDED?

Your warranty does not cover:

- labor charges for installation or setup of the product, adjustment of customer controls on the product, and installation or repair of antenna systems outside of the product.
- product repair and/or part replacement because of misuse, accident, unauthorized repair or other cause not within the control of Philips Consumer Electronics Company.
- reception problems caused by signal conditions or cable or antenna systems outside the unit.
- a product that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
- incidental or consequential damages resulting from the product. (Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you. This includes, but is not limited to, prerecorded material, whether copyrighted or not copyrighted.)
- a product that is used for commercial or institutional purposes (including but not limited to rental purposes).

WHERE IS SERVICE AVAILABLE?

Warranty service is available in all countries where the product is officially distributed by Philips Consumer Electronics Company. In countries where Philips Consumer Electronics Company does not distribute the product, the local Philips service organization will attempt to provide service (although there may be a delay if the appropriate spare parts and technical manual(s) are not readily available).

MAKE SURE YOU KEEP ...

Please keep your sales receipt or other document showing proof of purchase. Attach it to this owner's manual and keep both nearby. Also keep the original box and packing material in case you need to return your product.

BEFORE REQUESTING SERVICE...

Please check your owner's manual or our website at WWW.ACDR.Philips.com before requesting service. Adjustments of the controls discussed there may save you a service call.

TO GET WARRANTY SERVICE IN U.S.A., PUERTO RICO OR U.S.VIRGIN ISLANDS...

Take the product to a Philips factory service center (see enclosed list) or authorized service center for repair. When the product has been repaired, you must pick up the unit at the center. Centers may keep defective parts.

(In U.S.A., Puerto Rico and U.S. Virgin Islands, all implied warranties, including implied warranties of merchantability and fitness for a particular purpose, are limited in duration to the duration of this express warranty. Because some states do not allow limitations on how long an implied warranty may last, this limitation may not apply to you.)

TO GET WARRANTY SERVICE IN CANADA...

Take the product to a Philips consumer service center (listed below), self-servicing dealer or authorized service depot.

Philips Electronics Ltd.
601 Milner Avenue, Scarborough, Ontario, M1B 1M8
(416) 292-5161
4977 Levy Street, St. Laurent Québec, H4R 2N9
(514) 956-0120
1741 Boundary Road, Vancouver, B.C. V5M 3Y7
(604) 294-3441

(In Canada, this warranty is given in lieu of all other warranties. No other warranties are expressed or implied, including any implied warranties of merchantability or fitness for a particular purpose. Philips is not liable under any circumstances for any direct, indirect, special, incidental or consequential damages, howsoever incurred, even if notified of the possibility of such damages.)

REMEMBER...

Please record the model and serial numbers found on the product below. Also, please fill out and mail your warranty registration card promptly. It will be easier for us to notify you if necessary.

MODEL # _____

SERIAL # _____

This warranty gives you specific legal rights. You may have other rights which vary from state/province to state/province.

Philips Service Company, P.O. Box 555, Jefferson City, Tennessee 37760, (800) 531-0039

EL6191E001 / MAC 6058 / 10-96

IB7922E001

GENERAL INFORMATION

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

The set complies with the FCC-Rules, Part 15 and with 21 CFR 1040.1

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

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



Canada

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

Cet appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables dans la règlement sur le brouillage radioélectriques édicté par le ministère des communications du Canada.

LASER

Type	Semiconductor laser GaAlAs
Wave length	775-795 nm (at 25°C)
Output Power	2,5 mW (Read) 35 mW (Write)
Beam divergence	60 degree

This warning label is located on the rearside and inside this laser product.

CAUTION: INVISIBLE LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM.
DANGER: INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM.
VARO! AVATTAESSA JA SUOJALUKITUS OHITEJTAESSA OLET ALTTIINANAKYMATTOMAALLE LASERSATEILYLLE. ALA KATSO SATEESEEN.
WARNING! OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. OCH SPARREN ÄR URKOPPLAD. BETRAKTA EJ STRALEN

or

**DANGER - Invisible laser radiation when open.
AVOID DIRECT EXPOSURE TO BEAM**

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC (U.S.A.) RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS : (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRE OPERATION.

NOTE

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

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning this equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures :

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

IMPORTANT

THIS PRODUCT WAS FCC VERIFIED UNDER TEST CONDITIONS THAT INCLUDED USE OF SHIELDED CABLES AND CONNECTORS BETWEEN SYSTEM COMPONENTS. IT IS IMPORTANT THAT YOU USE SHIELDED CABLES TO REDUCE THE POSSIBILITY OF CAUSING INTERFERENCE TO RADIOS, TELEVISION SETS AND OTHER ELECTRONIC DEVICES. IF YOU HAVE ANY PROBLEMS CONTACT YOUR DEALER.

ANY CHANGE OR MODIFICATIONS TO THE EQUIPMENT BY THE USER NOT EXPRESSLY APPROVED BY THE GRANTEE OR MANUFACTURER COULD VOID THE USER'S AUTHORITY TO OPERATE SUCH EQUIPMENT.

IMPORTANT SAFETY INSTRUCTIONS

1. Read Instructions - All the safety and operating instructions should be read before the appliance is operated.


2. Retain Instructions - The safety and operating instructions should be retained for future reference.

3. Heed Warnings - All warnings on the appliance and in the operating instructions should be adhered to.

4. Follow Instructions - All operating and use instructions should be followed.

5. Water and Moisture - The appliance should not be used near water - for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, and the like.

6. Carts and Stands - The appliance should be used only with a cart or stand that is recommended by the manufacturer.


6A.  An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

7. Wall or Ceiling Mounting - The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.

8. Ventilation - The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or, placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.

9. Heat - The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

10. Power Sources - The appliance should be connected to a power supply only of the type described in the operation instructions or as marked on the appliance.

11. Grounding or Polarization - The precautions that should be taken so that the grounding or polarization means of an appliance is not defeated. 

12. Power-Cord Protection - Power-Supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

13. Cleaning - The appliance should be cleaned only as recommended by the manufacturer.

14. Nonuse Periods - The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

15. Object and Liquid Entry - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

16. Damage Requiring Service - The appliance should be serviced by qualified service personnel when :

- The power-supply cord or plug has been damaged; or
- Objects have fallen, or liquid has been spilled into the appliance; or
- The appliance has been exposed to rain ; or
- The appliance does not appear to operate normally or exhibits a marked change in performance; or
- The appliance has been dropped, or the enclosure damaged.

17 Servicing - The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

WARNING

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



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Table of contents

GENERAL INFORMATION AND DISCS

Welcome	8
About this manual.....	8
Technical data	8
Discs for recording.....	9
Discs for playback.....	9
Maintenance	9
Accessories	9

OPERATING BUTTONS AND CONNECTIONS

Operating buttons on the front.....	10
Connections at the back	10

DISPLAY

DISPLAY indications.....	11
DISPLAY messages	11
MENU messages.....	12

INSTALLATION

Connections general	13
Analog connections	13
Digital coaxial connections	14
Digital optical connections	14
Power supply.....	15
Setup recommendations.....	15
Inserting batteries in the remote control	15

REMOTE CONTROL

Remote control commands	16
Inserting discs	16

RECORDING

Remarks about recording.....	17
Recording modes.....	17
Autostart recording.....	18
Manual recording.....	19
Finalizing CDR & CDRW discs	20
Unfinalizing CDRW discs	20
Erasing CDRW discs	21

PLAYING

Playing a CD	22
Selecting a track.....	22
Search	22
Shuffle (random order) play.....	22
Repeat CD, track or program	23

PROGRAMMING

Remarks about programming.....	23
--------------------------------	----

MENU MODE

Remarks about Menu mode.....	24
Text settings.....	24
Recording settings	25

FIXING PROBLEMS

Troubleshooting.....	26
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Welcome !

Thank you for buying this Philips Compact Disc Recorder.

In the 1980s Philips invented a new audio system - the CD. The CD (compact disc) revealed the new dimensions of digital sound and added to the pleasure of audio. Compact-disc technology permits a high contrast in both loud and soft passages, with perfect channel separation. Philips has now further developed compact disc technology and the result is the CD recorder.

With your Philips CD Recordable/ReWritable Recorder, you can record, play and erase your own high-quality audio CDs, subject to legal restrictions on copying. Naturally, you will also be able to play all pre-recorded audio CDs.

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

About this manual

This manual gives instructions for operating this CD recorder. Please note:

- the digits (1) throughout the text indicate a sequence of actions necessary to perform a certain operation;
- the arrows (→) indicate the reaction from the recorder;
- the dots (•) indicate remarks, advice or special options within a sequence of actions. The dot-marked instructions are not necessary for operation.

Technical data

Subject to modification without notice.

General

Power consumption	15 W
Power consumption in Standby	6 W
Operating temperature	5-35° C
Weight.....	4 kg
Dimensions	264 x 305 x 86 mm

Audio

Frequency response	2Hz-22.050 Hz
Playback S/N (A-weighted)	100 dB
Playback S/N	100 dB
Playback dynamic range CDR.....	95 dB
Playback total harmonic distortion CDR.....	91 dB = 0.0033 %
Channel separation	100 dB
Recording S/N (A-weighted)	98 dB
Recording S/N digital without SRC	equal to source
Recording dynamic range.....	92 dB
Recording total harmonic distortion + noise	85 dB (0.0056%)

Discs for recording

For recording use, special audio discs must be used (for music only). These discs bear one of the logos as shown below. The text 'DIGITAL AUDIO' is present!

Your recorder can use two types of discs for recording purposes:

- **CD-Audio Recordable (CDR) discs:**
fully recorded and finalized, these discs play on all CD players and recorders.



- **CD-Audio ReWritable (CDRW) discs:**
can be recorded, erased and re-recorded hundreds of times. When finalized, they play on CDRW compatible CD players and recorders. In the course of 1999 most Philips CD players and recorders will be CDRW compatible.



To ensure proper working of the set, we recommend the use of Philips audio CDR and audio CDRW discs only.

Discs for playback

Your CD recorder is able to play:

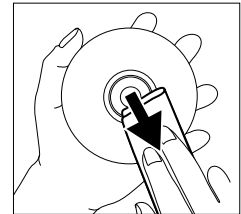
- All pre-recorded audio CDs.
- All Audio CDR and Audio CDRW.

Note: CDR(W) discs recorded with a computer can only be used when they are correctly treated according the audio standard (IEC958: Consumer part). Single session only!

Maintenance

For recording, it is very important to use discs that are free of dust and scratches.

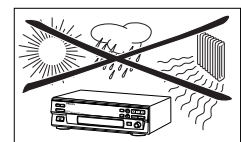
To clean a CD, wipe it in a straight line from the center towards the edge using a soft, lint-free cloth. A cleaning agent may damage the disc! Write only on the printed side of a CDR or CDRW, and only with a soft felt-tipped pen.



Clean the CD recorder with a soft, slightly dampened lint-free cloth. Do not use any cleaning agents as they may have a corrosive effect.



Do not expose the CD recorder batteries or CDs to humidity, rain, sand or excessive heat (caused by heating equipment or direct sunlight).



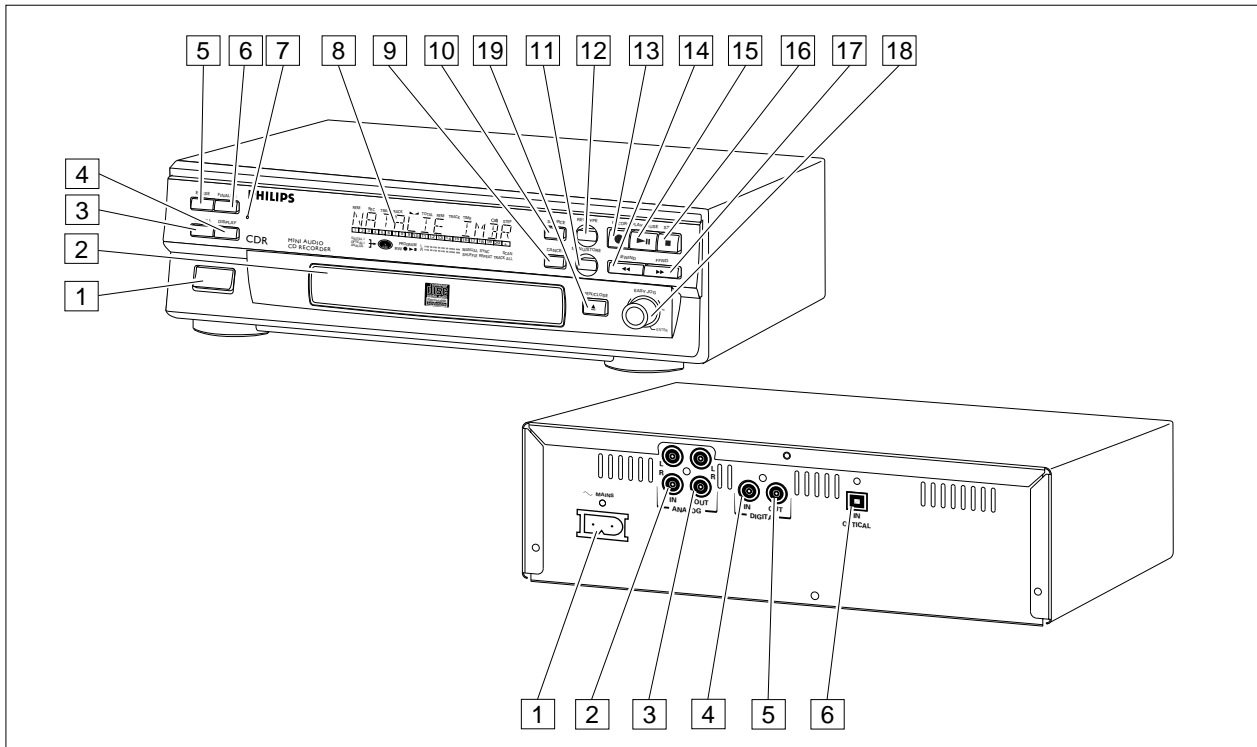
If the CD recorder cannot read CDs correctly, use a commonly available cleaning CD to clean the lens before taking the CD player to be repaired. Other cleaning methods may damage the lens. Always keep the tray closed to avoid dust on the lens.

The lens may cloud over when the CD recorder is suddenly moved from cold to warm surroundings, making it impossible to play a CD. Leave the CD recorder in the warm environment until the moisture evaporates.

Accessories

- 2 Analog audio cables (with red and white plugs)
- 1 Digital coaxial cable (with black plugs)
- Power cord
- 2 Batteries
- Remote control
- Guarantee

OPERATING BUTTONS AND CONNECTIONS



Operating buttons on the front

- 1 **ON/OFF** turns the CD recorder ON and OFF
- 2 Disc tray
- 3 **SCROLL** activates scrolling of text over the display (once)
- 4 **DISPLAY** selects display information/text
- 5 **ERASE** selects erase mode
- 6 **FINALIZE** selects finalize mode
- 7 Standby indicator
- 8 Display information screen
- 9 **CANCEL/DELETE** - deletes tracks from a program
- deletes text in Menu mode
- returns to a higher level in the menu
- 10 **SOURCE** selects input source
- 11 **STORE/MENU** - enters Menu mode
- stores Menu settings
- 12 **REC(ord) TYPE** selects recording modes
- 13 **RECORD** starts recording, finalizing, erasing
- 14 **◀◀ (Rewind)** - searches backward
- cursor control in Menu/Prog. review mode
- 15 **▶▶ (Play/Pause)** starts play/interrupts play or recording
- 16 **STOP ■** stops/clears a program
- 17 **▶▶ (FFwd)** - searches forward
- cursor control in Menu/Prog. review mode
- 18 **◀ EASY JOG ▶** - previous/next track (Play and program mode) (rotate)
- recording level control (recording)
- selects settings (menu on)

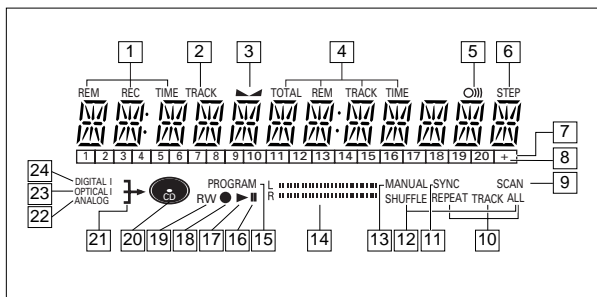
- ENTER (push)** - plays selected tracks
- selects settings in menu mode
- programs track numbers
- 19 **OPEN/CLOSE ▲** opens/closes disc tray

Note: Unless stated otherwise, all operating buttons are on the front of the CD recorder. When provided on the remote control, you can also use the corresponding buttons after selecting the CD recorder or separate CD player by pressing CDR or CD.

Connections at the back

- 1 Connection to power supply
- 2 **ANALOG IN** connects to the line output of an amplifier (left and right)
- 3 **ANALOG OUT CDR** connects to the line input of an amplifier (left and right)
- 4 **DIGITAL IN** connects to the digital coaxial output of an external CD player
- 5 **DIGITAL OUT CDR** connects to the digital coaxial input of amplifier or recording device
- 6 **OPTICAL IN** connects to the digital optical output of an external CD player

DISPLAY indications



- 1 **REM/REC TIME**indicates remaining recording time/recording time
- 2 **TRACK** track number
- 3 **▲** balance (lights during balance adjustment)
- 4 **TOTAL REM TRACK TIME**indicates total or remaining time of disc or track
- 5 **○** remote control active
- 6 **STEP**indicates the number of tracks in a program
- 7 **Track bar**indicates:
 - tracks on a disc or in a program
 - track in play
- 8 **+ 20** disc or program contains more than 20 tracks
- 9 **SCAN** lights up when the first 10 seconds of each track are played
- 10 **REPEAT TRACK/ALL** ..lights up when a track/complete disc (or program) is repeated
- 11 **SYNC**synchronized recording active
- 12 **SHUFFLE ALL**.....plays tracks in random order
- 13 **MANUAL** manual recording active
- 14 **L/R II**..... Record/play level bar, indicates the audio signal level
- 15 **PROGRAM** flashes during programming/lights in program mode
- 16 **II**..... pause function active
- 17 **▶** lights during play
- 18 **●** lights during recording
- 19 **R(W)**unfinalized CDR(W) disc inserted
- 20 **CD** CD inserted (a pre-recorded CD or finalized CDR or CDR(W) disc)
- 21 **↶** lights during recording
- 22 **ANALOG** **↶** analog input selected
- 23 **OPTICAL I** **→** optical input I selected for external recording
- 24 **DIGITAL I** **↶** digital input I selected for external recording

DISPLAY messages

Messages as listed and explained here may appear on the display for your guidance.

General

- READING**reading disc information
- OPEN**opening tray
- CLOSE**closing tray
- NO DISC**no disc inserted, disc unreadable or disc inserted upside down
- PROG FULL**program full
- INSERT DISC**insert disc or insert disc correctly
- WRONG DISC**inserted disc is not an audio CD
- UNFINALIZED**unfinalized CDR(W) disc
- MEMORY xx%/o**indicates the amount of memory used for unfinalized discs

Recording

- WAIT**- when STOP ■ is pressed during recording
-- when STOP ■ is pressed during recording the first 4 seconds of a track
- UPDATE**updating disc contents
- DISC FULL**recording no longer possible
- DIGITAL 1**digital coaxial input 1 selected
- OPTICAL**digital optical input selected
- ANALOG**analog input selected
- COPY PROTECT**no digital recording can be made from the connected source
- NOTFINALIZED**when opening the tray with an unfinalized disc inserted
- MAKE CD**.....start synchronized recording of a complete disc and Auto Finalize function selected
- RECORD DISC**start synchronized recording of a complete disc
- RECORD TRACK**start synchronized recording of a single track
- REC MANUAL**manual start of recording selected
- xx dB** level is being adjusted
- ERASE TRACK**when erasing one or more tracks
- ERASE DISC**when erasing a disc
- FINALIZE**when finalizing a disc
- FINALIZED**when trying to finalize an already finalized disc
- CHECK INPUT**when RECORD is pressed while no digital source is detected
- xx xx ERASE**time countdown when erasing a track or a disc
- xx xx FINAL**time countdown when finalizing a disc
- PRESS RECORD**to start manual recording, finalizing or erasing
- START SOURCE**to start synchronised recording from a source

DISPLAY

FINALIZED CDwhen trying to record on a finalized CDR or a prerecorded CD
UNFINALIZE/when trying to record on a finalized CDRW
PRESS ENTERwhen a professional source is connected

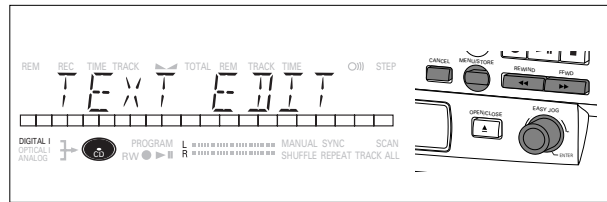
Play

PROGRAMprogram mode selected
ALBUM TITLEwill be followed by album title
TRACK TITLEwill be followed by track title
ALBUM ARTISTwill be followed by artist's name
TRACK ARTISTwill be followed by track artist's name

Others

NO AUDIO TRwhen the recorder enters a data track during recording
FINALIZE CDlaser power calibration performed 96 times, finalize disc
INITIALIZINGduring laser power calibration for unfinalized discs
DISC RECOVERduring disc recovery after power failure
OPC ERROROPC failure during OPC procedure (OPC = Optimum Power Calibration)
RECORD ERRORrecording error in menu mode
DISC ERRORwhen trying to record on or finalize a recovered disc
MEMORY FULL/when no more text can be stored for a certain disc. Another disc must be finalized to obtain memory space

MENU messages - See Menu mode



Menu messages

NO TRACKSwhen attempting to edit text for a disc which has no tracks
TEXT EDITwhen entering Text Edit mode
CD ARTISTwhen editing or erasing an artist's name
CD TITLEwhen editing or erasing a title
TR N ARTISTwhen editing or erasing an artist's name per track
TR N TITLEwhen editing or erasing a title per track
TEXT ERASEwhen entering text erase mode
ALL TEXTwhen entering all text mode
ERASE OKwhen confirmation for erasing must be given with ENTER key
ERASE ALL OKwhen confirmation for erasing must be given with ENTER key
ERASE MEMORYwhen waiting for confirmation for erasing a disc
MEMORY VIEWwhen selecting text review per unfinalized disc in memory
MEMORY EMPTYwhen REVIEW is selected while no text is in memory
AUTO TRACKwhen selecting auto track increment ON or OFF
ONAuto Track increment on
OFFAuto Track increment off
SET BALANCEwhen selecting BALANCE
NO TEXTno text stored for disc

Connections general

For recording the following inputs are present:

- Digital optical input.
- Digital coaxial input.
- Analog input.

For playback the following outputs are present:

- Digital coaxial output.
- Analog output.

We advise you to connect these to the CD input on your amplifier.

The connections you make will depend upon the possibilities your audio equipment offers. Please refer to the user manuals for your other audio equipment first.

Digital recordings (optical or coaxial) give the best performance in audio and usability (e.g. auto-track). (The digital optical connection is less sensitive to external disturbances).

If your equipment does not offer digital connections, the high quality Analog-Digital-Converter of your CD recorder will ensure good audio performance when recordings are made from the analog input.

Playback via the digital coaxial output of the CD recorder gives the best audio performance.

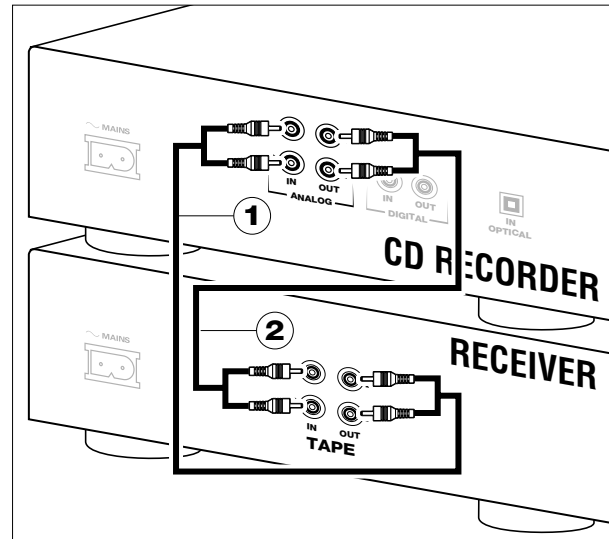
If your equipment does not offer digital connections, the high quality Digital-Analog-Converter of the CD recorder ensures a good sound quality via the analog output.

We advise you to always establish both digital and analog connections. This will mean that analog recordings can always be made when digital recording is not possible.

We have described the most common ways of connecting the CD recorder. If you still have difficulties with the connections, please contact the Philips Consumer Service desk in your area.

Analog connections

Analog connection is required for playback of CDs (use cable ②) and for recording from external analog sources (use cable ①).



Use the audio cables supplied. Connect the red plugs to the R sockets, and the white plugs to the L sockets.

- 1 For recording, connect cable ① between the ANALOG IN-sockets on the CD recorder and the CDR LINE- or TAPE OUT-sockets of an amplifier.

Note: For recording directly from a CD player, the analog input of the CD recorder should be connected to the analog output of the CD player.

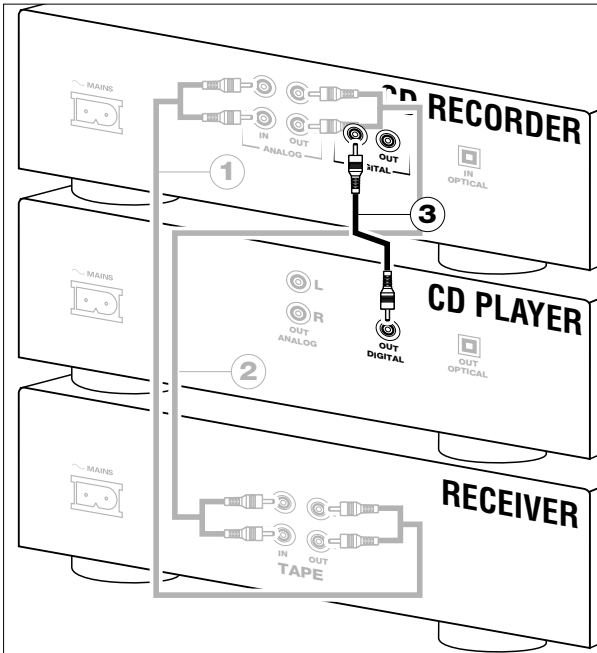
- 2 For playback, connect cable ② between the ANALOG OUT sockets on the CD recorder and the input sockets of an amplifier e.g. TAPE IN, CDR or AUX.

Note: Never use the PHONO input.

INSTALLATION

Digital coaxial connections

Digital coaxial connection is only required when you wish to record from a CD player with a digital coaxial output.



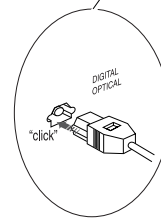
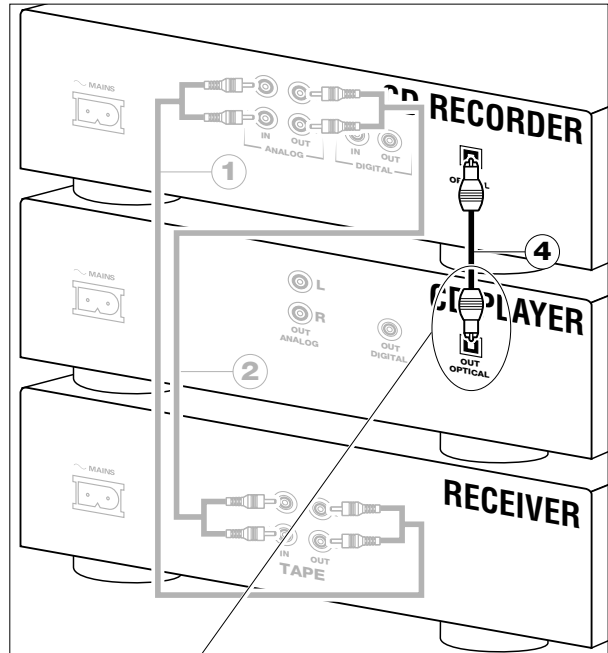
Use the digital coaxial cable supplied.

- 1 For recording, connect the cable (3) between the DIGITAL IN socket on the CD recorder and the DIGITAL OUT socket of a CD player.

Note: Your CD recorder is equipped with a digital coaxial output. This output can be used for digital playback.

Digital optical connections

Digital optical connection is only required when you wish to record from a CD player with a digital optical output.

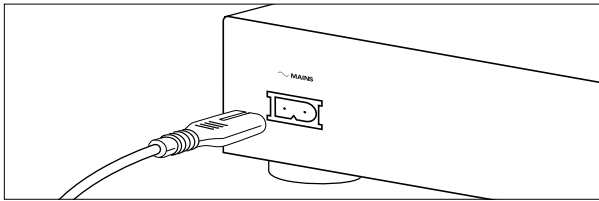


When connecting the Digital Optical cable, make sure it is fully inserted; you will hear a click.

- 1 Remove the dust caps from the digital optical connection. (We recommend that the cap be saved).
- 2 For recording, connect a fiber-optic cable (4) between the digital optical input of the CD recorder and the digital-optical output of a CD player.

Note: For playback, the digital coaxial output or analog output should be connected to an amplifier.

Power supply



- 1** Plug the power cord supplied into the POWER SUPPLY connector on the CD recorder, then into a wall socket.
- 2** Press ON/OFF.
→ The recorder is now in Standby mode.
- 3** Press any key to activate the recorder.

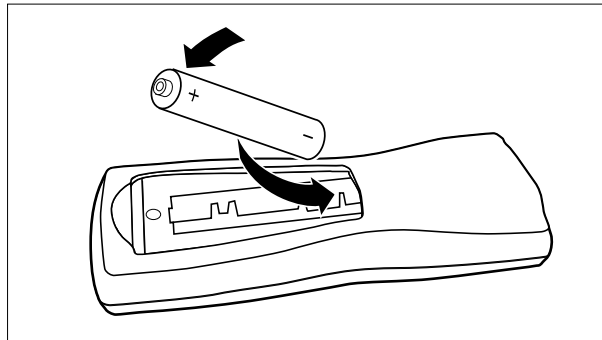
Note:

- The CD recorder will automatically adjust to the local mains voltage.
- When the CD recorder is in the "OFF" position, it is still consuming some power. If you wish to disconnect your CD recorder completely from the mains, withdraw the plug from the AC Outlet.

Setup recommendations

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

Inserting batteries in the remote control



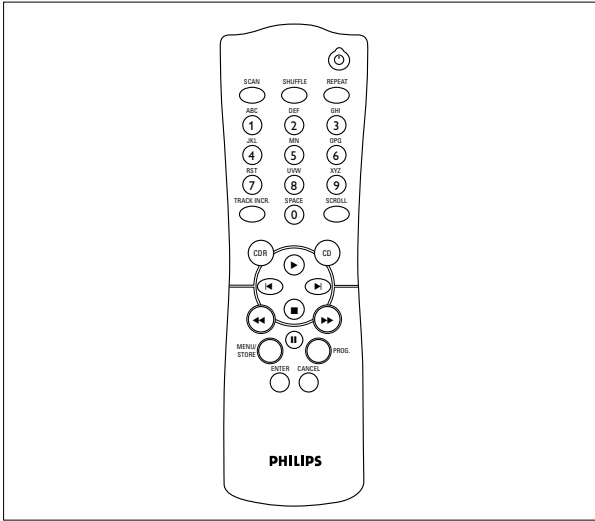
- 1** Open the battery compartment cover.
- 2** Insert 2 batteries "AA" (LR6) UM-3; as supplied as shown.
- 3** Replace the cover.

Note: We recommend that you use 2 batteries of the same type and condition.

Batteries contain chemical substances; they should be disposed of properly.

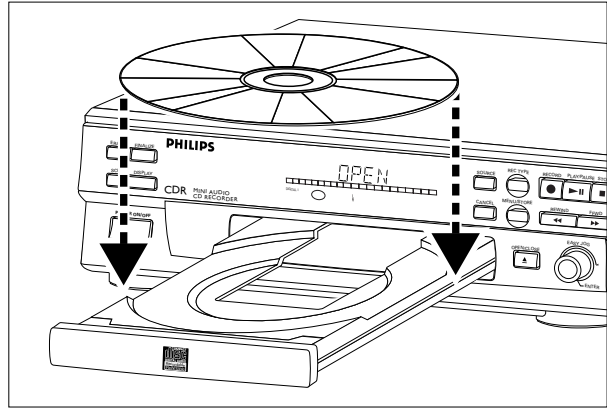
REMOTE CONTROL

Remote control commands

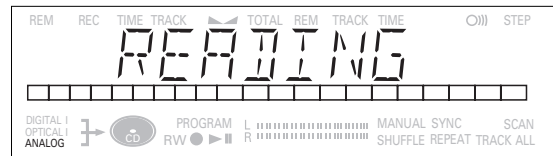


- STANDBY**switches to Standby/On/Off
- SCAN**plays the first 10 seconds of each track
- SHUFFLE**plays CD(RW) or program in random order
- REPEAT**repeat play
- Number/alphabet keys 0 - 9**
 -- selects a track by number
 -- selects character for text input
- TRACK INCR(ement)**increases track numbers during recording
- SCROLL**activates scrolling of text over the display
- CDR**selects CD recorder
- CD**selects CD player, can be used to control a separate Philips CD player
- ▶**starts CD(RW) play
- ◀**previous track (Play and Program mode)
- ▶|**next track (Play and Program mode)
-stops CD(RW) and clears a program
- ◀◀**- searches backward
 - cursor control in Menu/Prog. review mode
- ▶▶**- searches forward
 - cursor control in Menu/Prog. review mode
- ||**interrupts CD(RW) play/recording
- MENU/STORE**- enters Menu mode
 - stores Menu settings
- PROG.(ram)**opens/closes program memory
- ENTER**- selects settings in Menu mode
 - programs track numbers
 - starts playback of selected track
- CANCEL**- deletes tracks from a program
 - deletes text in Menu mode
 - returns to a higher level in the menu

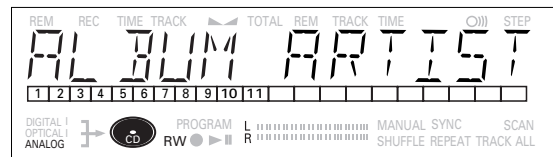
Inserting discs



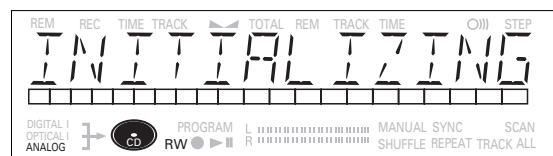
- 1** Press OPEN/CLOSE to open the disc tray.
→ **OPEN** lights up.
- 2** Insert a CD, CDR or CDRW in the appropriate recess in the tray, label side up.
- 3** Press OPEN/CLOSE to close the tray (see also Playing a CD).
→ **CLOSE** lights up, followed by **READING** the display will show the type of disc that has been inserted.



- If a CDR(W) is finalized, **CD** will show on the display.
- If CD-text is available the TITLE/ARTIST will scroll by.



- Note:*
- Only Audio CDs will be accepted. If a non-audio disc is inserted, the display will show **WRONG DISC**.
 - For recording, it is important that the blank disc be completely free of dust particles or scratches. (see Disc maintenance).
 - If a blank or partly-recorded CDR or unfinalized CDRW is inserted, the CD recorder will calibrate the disc for optimum recording. During this process the display will first show **INITIALIZING** and then the number of audio tracks. Calibration can take up to 25 seconds.



Remarks about recording

You will soon discover how easy it is to make your own CDs. Nevertheless, it is advisable to use a CDRW disc for your first try.

- If the disc is a CDRW and is already finalized, you must unfinalize it first.
- The recording procedure is the same for CDRs and CDRWs.
- If the disc already contains recordings, the CD recorder will automatically search for the end of the last track, so that recording can start from there.
- There must be at least 7 seconds of recording time left on the disc, otherwise you will not be able to enter record standby mode. *DISC FULL* will then show on the display.
- If the display indicates *COPY PROTECT* no digital recording can be made of the source material. Recording will not start.
- **The Serial Copy Management System (SCMS)** only allows digital recording under specific conditions:
 - This means that it is not possible to make a digital copy from a digital copy.
 - Analog recording is always possible !
 - The number of recordings to be made from the original is unlimited.
- A maximum of 99 tracks can be recorded on a disc. Minimum allowable track length is 4 seconds.
- Recordings from DAT or DCC players will not always stop automatically.

Important:

If you want to play the recorded CDR disc on a regular CD player, it must be finalized. See finalizing discs.

Finalized CDRW discs play only on CDRW compatible CD players.

For recording from CD changers do not use *REC MANUAL*.

Recording modes

Your recorder offers several recording modes.

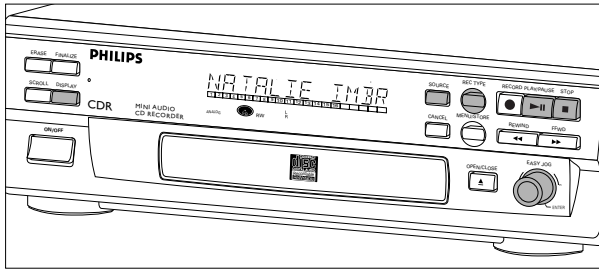
- *RECORD DISC* - to make a synchronized recording of the complete disc or a program simply by starting the source.
- *RECORD TRACK* - to make an synchronized recording of a single track simply by starting the source.
- *REC(ord) MANUAL* - to manually start a recording simply by pressing the RECORD key.
- *MAKE CD* - to make a synchronized recording of the complete disc or a program simply by starting the source. Finalizing will be done automatically.



Some remarks on recording:

- When AUTO TRACK is ON (default setting), track numbers will automatically be increased during recording.
- By programming the source first, a compilation can be recorded.
- If a finalized CD recordable disc is inserted in the CD recorder, *FINALIZED CD* will be displayed when REC TYPE is pressed. Recording is not possible.
- If a finalized CD rewritable disc is inserted in the CD recorder, *UNFINALIZE* and *PRESS ENTER* will be displayed when the REC TYPE is pressed. If ENTER is pressed, the disc will be unfinalized.

Autostart recording






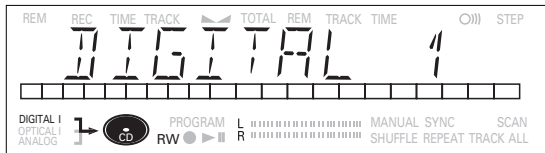
This feature enables you to make fast and easy recordings of a CD. Track increments are automatically detected from the source material. Track increments cannot be added manually. In analog source material a silence of 2.7 seconds or more is automatically detected as a track increment.


Important:

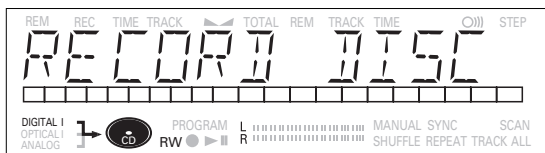
- Recording from CD-changers should always be started in the **RECORD DISC**, **RECORD TRACK** or **MAKE CD** mode.

Preparing for autostart recording

- 1 Make sure the disc is absolutely free of scratches and dust particles.
- 2 Press Source repeatedly until (depending on the connection used):
 → **DIGITAL I** , **OPTICAL I**  or **ANALOG**  lights up and **DIGITAL 1**, **OPTICAL** or **ANALOG** will appear on the display.







- 3 With the CD recorder stopped, press **REC TYPE**
once: to select '**RECORD DISC**';
twice: to select '**RECORD TRACK**';
four times: to select '**MAKE CD**'.
 →  and **SYNC** start to flash and the display shows the selection.



- If **CHECK INPUT** message also flashes, the digital connection is incorrect.

Start recording

- 1 To start recording, press **Play** on the selected source.
 → The CD recorder automatically starts to record and  lights continuously.
 - If, however, you start the source during a track, recording will start at the beginning of the next track or after 2.7 seconds of silence in analog recordings.
 - To check the elapsed recording time, press **DISPLAY**. (This can also be done during recording.)
 - The recorder stops automatically.
- 2 To stop recording manually, press **STOP** on the CD recorder.
 → **WAIT** lights up and **SYNC** and  go out.
 - If **STOP**  is pressed within 3 seconds after pressing **PLAY**, no recording will take place.
 - To interrupt recording, press **PAUSE** on the CD recorder.
 →  starts to flash. To resume, press **RECORD** on the CD recorder.

After recording the display will show **UPDATE** for several seconds.

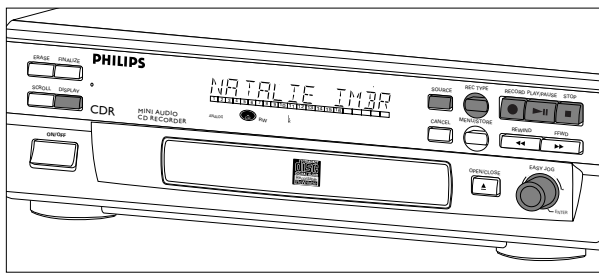
Note: Recordings from DAT, DCC or analog sources will only stop after 20 seconds of silence.

Important:

If you want to play the recorded CDR disc on a regular CD player, it must be finalized. See finalizing discs.

Finalized CDRW discs play only on CDRW compatible CD players.




Manual recording

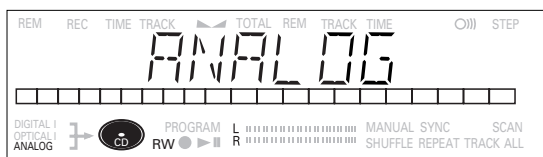


Important:

- Recording from CD-changers should always be started in the RECORD DISC, RECORD TRACK or MAKE CD mode.
- Only make analog recordings when digital recording is not possible.

Preparing for manual recording

- 1 Make sure the disc is absolutely free of scratches and dust particles.
- 2 Press SOURCE repeatedly until (depending on the connection used):
 → DIGITAL I , OPTICAL I  or ANALOG  lights up and DIGITAL I, OPTICAL or ANALOG will appear on the display.



- When Auto Track is On (default setting), track numbers will automatically be increased during recording.
- To switch off the Auto Track function, you must enter Menu mode.
 If you wish to increase track numbers manually, press TRACK INCR(ement) on the remote control. For further instructions see Menu mode.

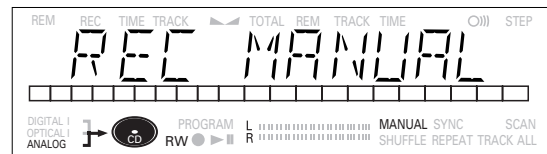
ON (AUTO): The track increments are automatically copied from the digital source material or after 2.7 second silence during analog recording


OFF (MANUAL): Track numbers can be incremented manually by pressing TRACK INCR(ement) on the remote control. (Minimum track length is 4 sec.) (This can also be done in Auto mode.)

- Track numbers cannot be changed after recording.




Note: Auto track works only with Consumer Sources with a digital output signal according to the IEC 958 (consumer part) audio standard.

- 3 With the recorder stopped, press REC TYPE three times to enter the Manual Record standby mode.
 → MANUAL starts to flash and the display shows REC MANUAL.



- If CHECK INPUT message also flashes, the digital connection is incorrect.
- 4 Play the source first to set the optimal recording level on the CD recorder.
 - 5 Rotate the EASY JOG/ENTER key until all the blue segments are lighted on the Record/Play Level bar but the red segments do not light continuously during the loudest passages.
 → Display shows .
 - 6 Stop the source.

Start recording

- 1 To start recording, press RECORD on the CD recorder and immediately start the source (from stop-mode).
 →  lights continuously. The track number and recording time will appear on the display.
- To record a 3-second silence at the start of a track, press PAUSE on the CD recorder before starting the source.
- To check the elapsed recording time, press DISPLAY on the CD recorder. (This can also be done during the recording.)
- 2 To stop recording, press STOP on the CD recorder.
 → WAIT lights up and  goes out.
- If STOP is pressed within 3 seconds after RECORD, no recording will take place.
- To interrupt recording, press PAUSE on the CD recorder.
 starts to flash. Resume at step 1.

After recording the display will show UPDATE for several seconds.

Note: With AUTO TRACK ON, the recorder will stop and go to REC STANDBY for 1 minute and then goes to stop mode automatically. Recordings from DAT, DCC or recordings made analogously will stop after 20 seconds of silence. With AUTO TRACK OFF, the auto stop mode is disabled.

RECORDING

Important:

If you want to play the recorded CDR disc on a regular CD player, it must be finalized. See finalizing discs .

Finalized CDRW discs play only on CDRW compatible CD players.

Finalizing CDR & CDRW discs

Finalizing is a simple procedure that is necessary in order to:

- be able to play recordings on a CD PLAYER,
- avoid further unwanted recordings on a disc,
- avoid erasure of tracks on a CDRW.

Auto finalizing

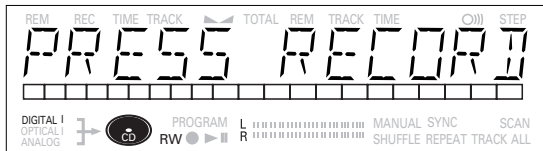
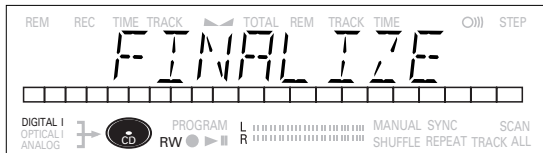
Auto finalizing is possible when using the MAKE CD recording function .

Manual finalizing

1 Make sure the disc (in the CD recorder) is absolutely free of scratches and dust particles.

2 With the recorder stopped, press FINALIZE.

→ The display will show *FINALIZE* and *PRESS RECORD*.



3 Press RECORD.

→ xx xx *FINAL* and the approximate finalization time is shown on the display.

The display counts down through the finalization.

Upon completion, the total number of tracks and the total time recorded will appear on the display.

For CDR(W), **CDR(w)** changes to **CD** on display.

Finalizing will take at least 2- 4 minutes.

Note: During finalization, the CD recorder will not accept operating commands.

Unfinalizing CDRW discs

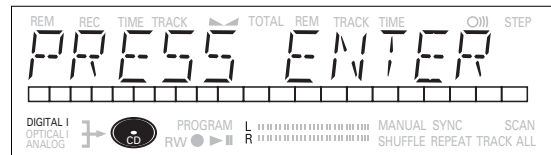
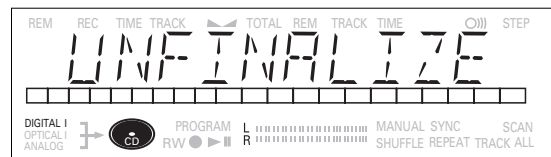
For CDRW discs only.

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

To unfinalize:

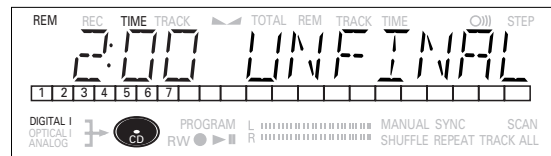
1 With the CD recorder stopped, press REC TYPE or ERASE.

→ *UNFINALIZE* and *PRESS ENTER* will appear on the display.



2 Press ENTER.

→ The disc will now be unfinalized and can be used again to record.

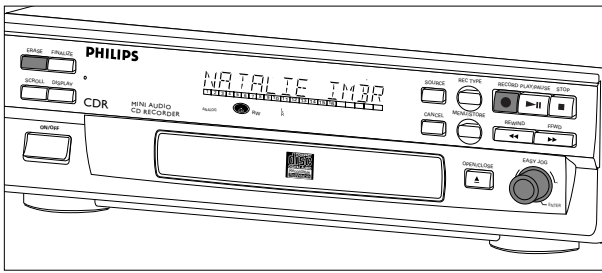


Note:

- Unfinalizing will take approximately 2 minutes.

- When unfinalizing a CDRW disc with text available, this text will be transferred to the CD recorder memory. However, if the text memory is full, the message *MEMORY FULL/FINALIZE CD* will be displayed. Text must be erased, stored for other discs, or another disc must be finalized in order to create space in the memory.

Erasing CDRW discs



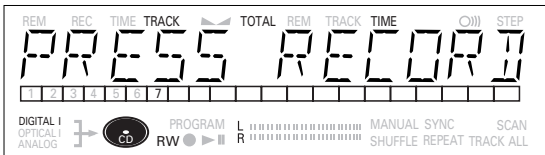
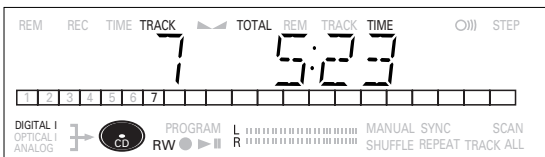
For unfinalized CDRW discs only.
You can erase:

- one or more tracks from the end,
- the entire disc.

To erase one or more tracks from the end:

- 1 Press ERASE once.
 - The display will show the number of tracks and their total playing time. *ERASE TRACK* and *PRESS RECORD* will light up.
- If the disc is finalized, **CD** will appear on the display after inserting a CDRW in the recorder. The recorder will ask you to confirm unfinalizing first. Confirm by pressing the EASY JOG/ENTER key or ENTER on the remote control.

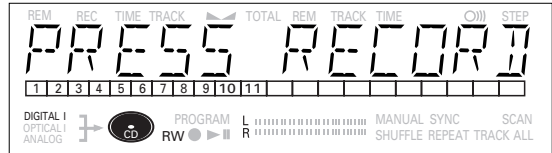
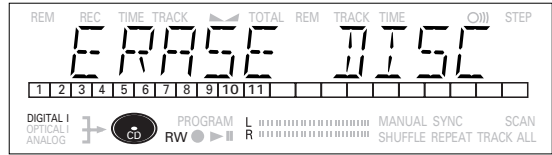
- 2 Select the track(s) you wish to erase by turning the EASY JOG/ENTER key to the left and confirm by pressing this key.
 - The selected track numbers will start to blink on the track bar.
 - The display will show the remaining number of tracks and the remaining playing time after erasing the selected track(s).



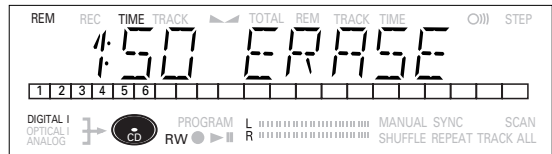
- 3 Press RECORD.
 - The display will show the total countdown time and *ERASE*.
 - After the selected track(s) has/have been erased, the display will show the number of remaining tracks and their total playing time.

To erase the entire disc:

- 1 Press ERASE twice.
 - The display will show the number of tracks and their total playing time. *ERASE DISC* and *PRESS RECORD* will light up.
- If the disc is finalized, **CD** will appear on the display after inserting a CDRW in the recorder. The recorder will ask you to confirm unfinalizing first. Confirm by pressing the EASY JOG/ENTER key or ENTER on the remote control.

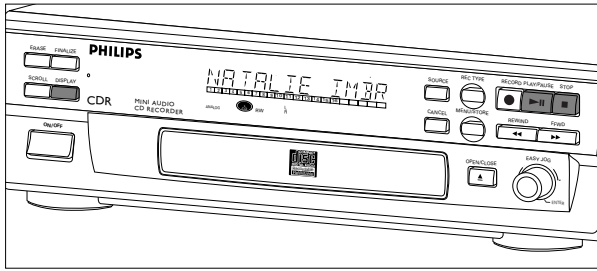


- 2 Press RECORD.
 - The display will show the total countdown time and *ERASE*. The entire disc will be erased.



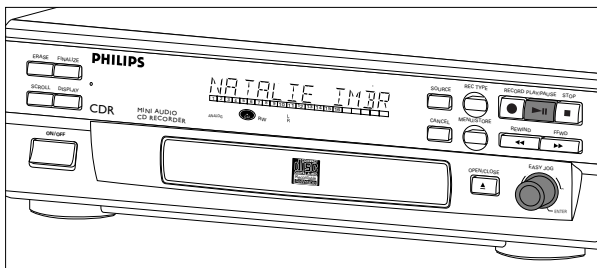
Erasing an entire disc may take up to 1.5 minutes.

Playing a CD



- 1 Press PLAY/PAUSE ►|| to start CD play.
→ ►|| will light up and the track number and track time of the track in play will appear on the display.
- 2 Press Display once, twice or three times to see:
→ Remaining track time, total remaining time, text information (see Menu Mode).
- 3 To interrupt play temporarily, press PLAY/PAUSE ►|| again.
→ || will light on the display
- 4 To continue play, press PLAY/PAUSE ►|| again.
- 5 To stop play, press STOP ■.
→ The number of tracks and the total playing time will appear on the display.

Selecting a track



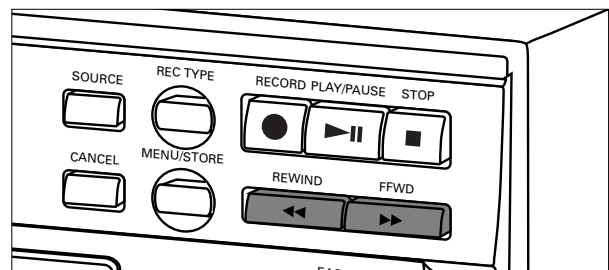
Selecting a track during play

- 1 Turn the EASY JOG/ENTER key until the required track number appears on the display.
→ Play will skip to the beginning of the selected track.
- or
- Enter the required track number using the numerical keys on the remote control. For 2-digit track numbers, press the keys in rapid succession.
→ Play will skip to the beginning of the selected track.
- or
- Press ◀ or ▶ on the remote control one or more times.
→ Play will skip to the beginning of the present, previous or following track.

Selecting a track when CD play is stopped

- 1 Turn the EASY JOG/ENTER key until the required track number appears on the display.
 - 2 Press EASY JOG/ENTER or ENTER on the remote control to confirm or press PLAY/PAUSE ►|| to start playing.
- or
- 1 Enter the required track number using the numerical keys on the remote control. For 2-digit track numbers, press the keys in rapid succession. Play starts.
- or
- 1 Briefly press ◀ or ▶ one or more times.
 - 2 Start playback by pressing PLAY/PAUSE ►||, EASY JOG/ENTER or ENTER on the remote control.

Search



- 1 Press down ◀◀ or ▶▶.
→ The player first searches backwards or forwards at 10 times normal speed with sound at low volume, then goes to 50 times normal speed with sound muted.
- 2 Release the button at the desired passage.
→ Play will start at the desired passage.

Note: During Shuffle, Repeat Track or Programmed play, search is restricted to within the track being played at the time.

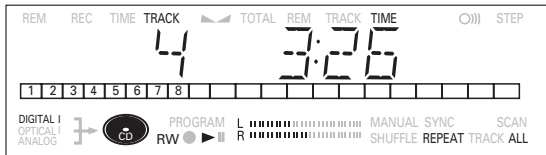
Shuffle (random order) play

- 1 Press SHUFFLE on the remote control before or during CD play to start shuffle play.
→ The tracks on the CD (or program if set) will play in random order.
- 2 Press SHUFFLE on the remote control again to return to normal CD play.

Note: Shuffle is also cleared when you open the disc tray.

Repeat CD, track or program

- 1 Press repeat on the remote control one or more times during CD play.
 → When **REPEAT TRACK** lights up, the current track will play repeatedly. When **REPEAT ALL** lights up, the entire disc or program plays repeatedly.



- 2 To return to normal play, press REPEAT on the remote control one or more times until:
 → The **REPEAT** text disappears from the display.

Note:

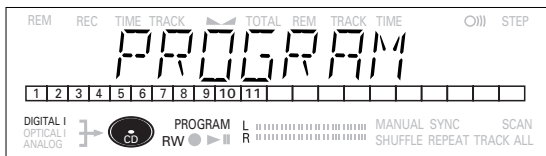
- You can use shuffle in combination with **REPEAT ALL** or programmed play.
- **REPEAT** is also cleared when you open the disc tray.

Remarks about programming

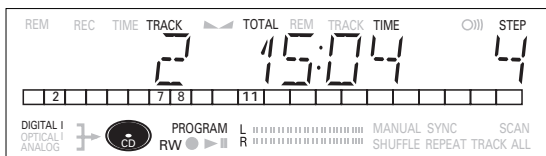
- You can program up to 99 tracks to play in any desired sequence.
- Tracks can be programmed more than once, but each time counts as a track (**STEP**).

Programming

- 1 In Stop mode press PROG(ram) on the remote control to enter Program mode.
 → **PROGRAM** flashes and PROGRAM will appear on the display.



- 2 Select the desired track numbers by turning the EASY JOG/ENTER key left or right and store by pressing ENTER.



or:

Enter a track number with the number keys. For 2-digit numbers, press the keys in rapid succession.
 → The track will be stored in the program.

→ The track number, total program time and the number of programmed tracks (**STEPS**) are displayed.

- 3 Repeat step 2 for all tracks to be programmed.

- 4 Press STOP or PROG(ram) on the remote control to end programming.
 → **PROGRAM** lights continuously.

- 5 Press PLAY/PAUSE ►|| to start programmed play.

Note:

- To review the program, press PROG(ram) on the remote control, followed by ◀◀ or ▶▶ with the CD recorder in Stop mode.
- To add more tracks to the program, repeat steps 1 to 5.
- If you try to store more than 99 tracks, **PROG FULL** will appear on the display.

Clearing a program

- 1 Press STOP ■ if necessary to stop programmed play.

- 2 Press STOP ■ again to clear the program.
 → **PROGRAM** will disappear from the display.

- The program is also cleared when you open the disc tray.

Erasing a track from a program

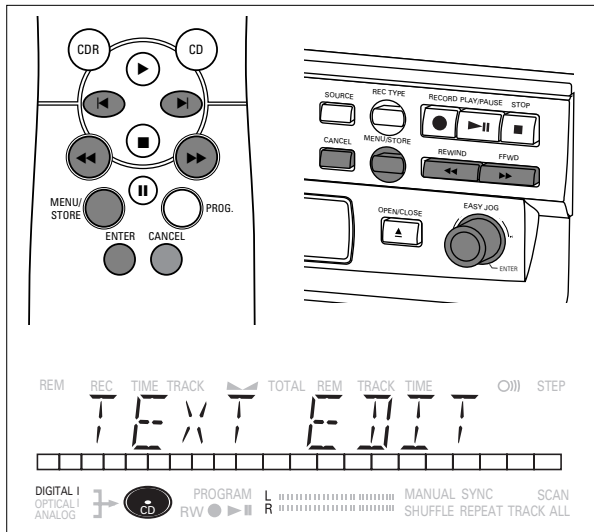
- 1 In Stop mode press PROG(ram) on the remote control to enter Program mode.

- 2 Use ◀◀ or ▶▶ to select the track from to be deleted.
 → The track number and program step will be shown on the display.

- 3 Press CANCEL to erase the track from the program.
 → The remaining program steps and the remaining playing time on the program will be displayed.

MENU MODE

Remarks about Menu mode



- Menu mode gives you access to a number of features which are not available using the regular keys (on the deck's front and the remote control).
- The TEXT submenus allow you to give names to discs and tracks. The disc and track names will be displayed during playback.
- In the RECORDING submenus you can set Auto Track and Balance.
- All settings (except Balance) made in Menu mode will be stored in the deck's memory and can be displayed and changed at any time.

General Operation

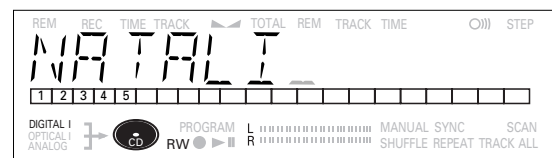
- 1 In Stop mode, select CDR.
- 2 Press STORE/MENU on the deck or the remote control to enter Menu mode.
→ `TEXT EDIT` will appear on the display.
- 3 Rotate EASY JOG/ENTER to select the required submenus.
- 4 Press EASY JOG/ENTER or ENTER on the remote control to confirm selections.
- 5 Rotate EASY JOG/ENTER to select options in the submenus.
- 6 Press EASY JOG/ENTER or ENTER on the remote control to confirm selections.
- 7 Press STORE/MENU to store settings and return to the submenu.
- 8 Press STOP ■ to store settings and exit Menu mode.

Note: Text can only be edited for unfinalized discs. (finalized CDRW discs must be unfinalized first.)

Text settings

Storing names

- 1 Select the TEXT EDIT submenu.
→ `TEXT EDIT` will appear on the display.
- 2 Press EASY JOG/ENTER or ENTER on the remote control to confirm.
- 3 Rotate EASY JOG/ENTER to select the required option in the submenu: CD Artist, CD Title, Track 1 Artist, Track 1 Title, etc.
- 4 Press EASY JOG/ENTER or ENTER on the remote control to confirm.
- 5 Select the characters by rotating the EASY JOG/ENTER key or by pressing the corresponding number/alphabet key on the remote control.



- 6 Press EASY JOG/ENTER or ENTER on the remote control to store the characters and move to the next cursor position.
- 7 Press STORE/MENU to store a name you have entered and return to the submenu or STOP ■ to exit.

Note:

- A maximum of 60 characters can be stored per item.
- By pressing the EASY JOG/ENTER key or ENTER on the remote control without selecting a character first, you can insert a space between characters.
- With the ◀ ▶ keys you can move to a required cursor position.
- With the CANCEL key you can delete a character.
- When an artist's name has been stored for a certain track, the name will automatically be copied for the next track. The name can be confirmed by pressing STORE/MENU or a new name can be entered as described above.

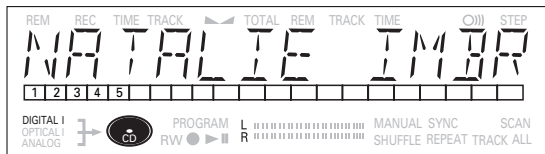
Erasing names

- 1 Select the TEXT ERASE submenu.
→ `TEXT ERASE` will appear on the display.
- 2 Press EASY JOG/ENTER or ENTER on the remote control to confirm.
- 3 Rotate EASY JOG/ENTER to select the required option in the submenu: All Text, CD Title, CD Artist, Track 1 Title, Track 1 Artist, etc.

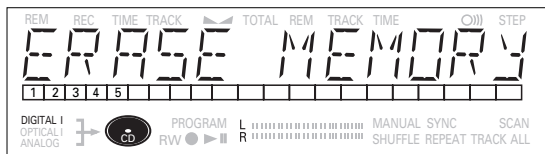
- 4 Press EASY JOG/ENTER or ENTER on the remote control to confirm.
→ The display will ask you to reconfirm your selection.
- 5 Press EASY JOG/ENTER or ENTER on the remote control to reconfirm.
- 6 Press STORE/MENU to return to the submenu or STOP ■ to exit.

Text Memory Review/Erase Text Memory

- 1 Select the MEMORY VIEW submenu.
→ MEMORY VIEW will appear on the display.
- 2 Press EASY JOG/ENTER or ENTER on the remote control to confirm.
- 3 Select the disc you wish to erase.



- 4 Press EASY JOG/ENTER or ENTER on the remote control to confirm.
→ ERASE MEMORY will appear on the display.



- 5 Press EASY JOG/ENTER or ENTER on the remote control to reconfirm.
- 6 Press the EASY JOG/ENTER key or ENTER on the remote control to confirm erasure of the text for that particular disc.
- 7 Press STORE/MENU to return to the submenu or STOP ■ to exit.

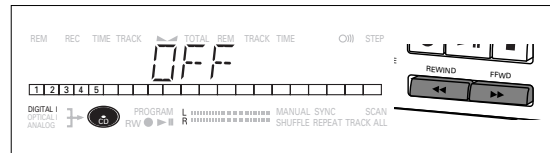
Note:

- If there are no discs in the memory, the message MEMORY EMPTY will appear on the display.
- When the text memory of your CDRecorder is full, the message MEMORY FULL will appear, followed by FINALIZE CD. If you want to add a CD to the list of discs for which text is stored, you must erase a disc from this list or finalize another disc. ("for which text is stored")
- MEMORY FULL/FINALIZE CD may also appear when unfinalizing a CDRW disc for which text was stored (see 'Unfinalizing CDRW discs'). The same action(s) should be taken in order to obtain memory space.

Recording settings

Auto track increment

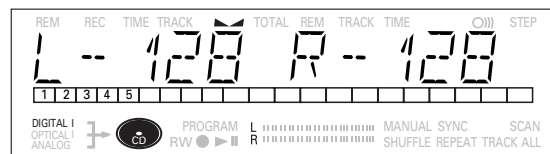
- 1 Select the AUTO TRACKING sub menu.
→ AUTO TRACK will appear on the display.
- 2 Press EASY JOG/ENTER or ENTER on the remote control to confirm.
- 3 Select TRACK ON or OFF.



- 4 Press EASY JOG/ENTER or ENTER on the remote control to confirm.
→ ON or OFF will appear on the display for 2 seconds.
- When ON is selected, track numbers will be automatically incremented during recording.
- When OFF is selected, you can number the recorded tracks yourself.
- 5 Press STORE/MENU to store settings and return to the submenu or STOP ■ to exit.

Balance (Only active in Record/Standby mode)

- 1 Select the SET BALANCE submenu.
→ SET BALANCE will appear on the display.
- 2 Press EASY JOG/ENTER or ENTER on the remote control to confirm.
→ ◀ and L- 128 R- 128 will appear on the display.



- 3 Adjust recording balance by turning the EASY JOG/ENTER key.
 - Turn left: the figure left (▶) counts up, right counts down.
 - Turn right: the figure right (◀) counts up, left counts down.
- 4 Press EASY JOG/ENTER or ENTER on the remote control to confirm.
- 5 Press STORE/MENU to store settings and return to the submenu or STOP ■ to exit.

Note: The balance setting will not be stored.

TROUBLE-SHOOTING

If your CD recorder is defective, it is wise to check this list first. You may have forgotten a simple step.

Warning!

Under no circumstances should you attempt to repair the CD recorder yourself because this will invalidate the guarantee.

SYMPTOM • possible solution:

No power

- make sure that the ON/OFF button is on: the CDRecorder is in standby mode, press any key to activate it
- make sure that the power cable is plugged in correctly
- switch the recorder OFF and then immediately back ON

Auto track does not work

- check if auto track is selected
- check if there are 2.7 seconds of silence between the tracks (analog recording only)
- check if the source is a consumer source with digital output according to the IEC audio standard
- source is DVD player (no track information)

No sound

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

Amplifier sound is distorted

- make sure that the CD recorder analog output is not connected to the amplifier Phono input

Play will not start

- make sure that the label of the CD is facing up
- clean the disc
- make sure 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
- select the right source first

Will not record

- clean the disc
- make sure that the CDR(W) is an unfinalized disc
- make sure that the disc is recordable and replace if necessary
- the disc is not an AUDIO disc (**WRONG DISC**)
- wrong input source chosen. Input label flashing (**CHECK INPUT**)
- text memory full (**MEMORY FULL / FINALIZE CD**). When a CDRW has to be unfinalized for recording. Erase text for other disc(s) or finalize other disc(s) to obtain memory space.

Recording is distorted

- make sure the recording level is correct

20 second pause between recordings

- see Autostart recording

Player does not react

- switch the ON/OFF button on the front of the player off and back on

DISC RECOVER on display

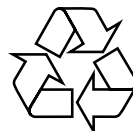
- a power failure has occurred during recording; the CD recorder is attempting to repair the disc
- if **DISC ERROR** then appears on the display, the disc cannot be recorded further, and cannot be finalized. But it can still be played on the CD recorder or another CD recorder.
- on a CDRW disc, the track being recorded is lost, but further recording and finalization can still be done

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