

Audio CD Recorder

**CDR775**

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



*Let's make things better.*



**PHILIPS**

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

6. Attachments - Do not use attachments not recommended by the product manufacturer as they may cause hazards.


7. 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.

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

9.  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.

10. 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.

11. 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.

12. Grounding or Polarization - This product may be equipped with a polarized alternating current line plug ( a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug. 

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

14. Lightning - For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and powerline surges.

15. Overloading - Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

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

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.

18. 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.

19. Replacement Parts - When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

20. Safety Check - Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

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

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

## 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.

# 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 GRANTTEE OR MANUFACTURER COULD VOID THE USER'S AUTHORITY TO OPERATE SUCH EQUIPMENT.

# 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](http://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

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## Welcome !

Thank you for buying this Philips Compact Disc Recorder/ Player Double Deck.

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 recorder/player, you can make your own high-quality audio CDs (subject only to legal restrictions on copying), either by recording at normal or high speed from the Player to the Recorder, or by recording from an external source. And naturally, you can also play all pre-recorded audio CDs, using one or both decks individually, or together as a 2-deck changer.

*Note: In certain countries, including the UK and certain Commonwealth countries, use of the product (or CD Recorder) as shown or suggested in this user manual may require the permission of copyright holders.*

### 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 .....	20 W
Power consumption in Standby .....	6 W
Operating temperature .....	5-35° C
Weight .....	4.5 kg
Dimensions .....	435 x 310 x 88 mm

#### Audio

Frequency response.....	20Hz-22050 Hz
Playback S/N (A-weighted) .....	100 dB
Playback S/N .....	100 dB
Playback dynamic range CDR .....	95 dB (90 dB)
Playback dynamic range CD .....	90 dB
Playback total harmonic distortion CDR.....	88 dB = 0.0033 %
Playback total harmonic distortion CD .....	85 dB = 0.0056 %
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.



### Important:

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:

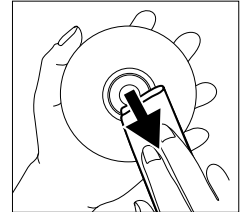
- All pre-recorded audio CDs.
- All Audio CDR and Audio CDRW.

*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.

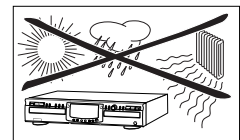
To clean a CD, wipe it in a straight line from the center towards the edge using a soft, lint-free cloth. A cleaning agent may damage the disc! Write only on the printed side of a CDR or CDRW, and only with a soft felt-tipped pen.



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).



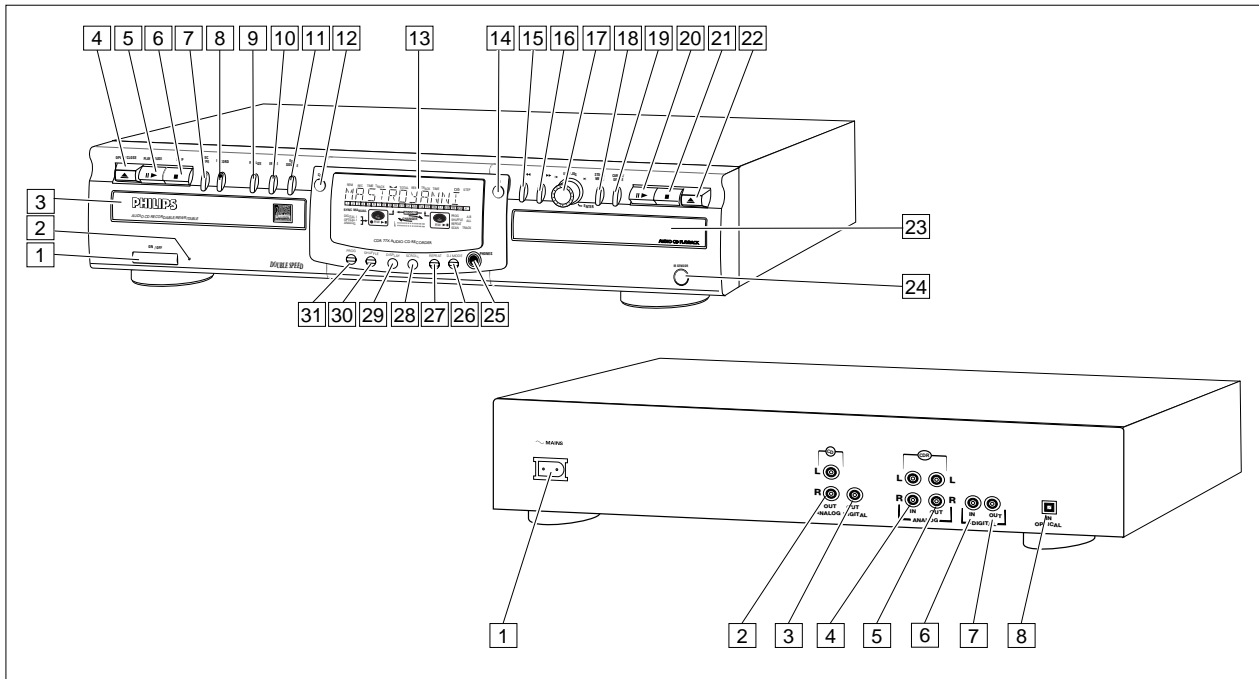
Always keep the tray closed to avoid dust on the lens.

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

### CD recorder

- 1 **ON/OFF** .....turns the CD recorder ON or OFF (if the recorder is in Standby mode, pressing any key will activate the CD recorder)
- 2 Standby indicator
- 3 Disc tray
- 4 **OPEN/CLOSE ▲**.....opens/closes disc tray
- 5 **PLAY/PAUSE ► II** .....starts play/interrupts play or recording
- 6 **STOP ■**.....stops/clears a program
- 7 **REC(ord) TYPE** .....selects recording modes
- 8 **RECORD** .....starts recording, finalizing, erasing
- 9 **FINALIZE** .....selects finalize mode
- 10 **ERASE**.....selects erasing mode (disc or track)
- 11 **EXT SOURCE** .....selects input source
- 12 **CDR** .....selects CD recorder deck display/keys

### CD player

- 14 **CD** .....selects CD player deck display/keys
- 20 **PLAY/PAUSE ► II** .....starts play/interrupts play
- 21 **STOP ■**.....stops/clears a program
- 22 **OPEN/CLOSE ▲**.....opens/closes disc tray
- 23 Disc tray

### General

- 13 Display.....information screen
- 15 **◀◀** ..... searches backward  
- cursor control in Menu/Prog. review mode
- 16 **▶▶** ..... searches forward  
- cursor control in Menu/Prog. review mode

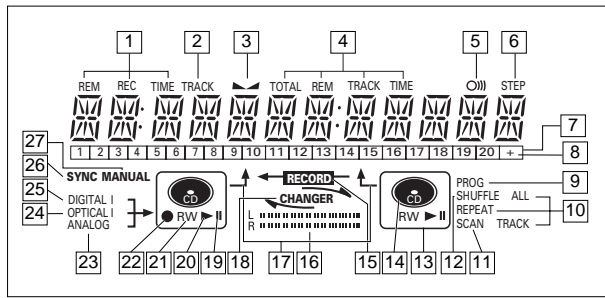
- 17 **◀ EASY JOG ▶** .....- previous/next track (Play and rotate)  
- Program mode  
- recording level control (recording)  
- selects settings (menu on)
- ENTER**..... plays selected tracks  
- selects settings in Menu mode  
- programs track numbers
- 18 **STORE/MENU** ..... stores Menu settings  
- enters Menu mode
- 19 **CANCEL/DELETE** .....- deletes tracks from a program  
- deletes text in Menu mode  
- returns to a higher level in the menu
- 24 **IR sensor** .....receives signals from the remote control
- 25 **PHONES** .....socket for headphones
- 26 **DJ MODE** .....separate play of CD recorder deck and CD player deck
- 27 **REPEAT**.....repeats play (All, program or track)
- 28 **SCROLL**.....activates scrolling of text over the display (once)
- 29 **DISPLAY**.....selects display information, permanent text scrolling and time
- 30 **SHUFFLE**.....plays CD(RW) or program in random order
- 31 **PROG(ram)** .....opens/closes program memory

*Note: Unless stated otherwise, all controls are on the front of the CD recorder. If the corresponding keys are also provided on the remote control, you can use these after selecting the CD recorder deck or CD player deck by pressing CDR or CD.*

## Connections at the back

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

## DISPLAY indications



- 1 **REM/REC TIME** .....remaining time/remaining recording time/recording time
- 2 **TRACK** .....track number
- 3 **▲**.....balance (lights up during balance adjustment)
- 4 **TOTAL REM TRACK TIME** .....indicates total or remaining time of disc or track
- 5 **O)))**.....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 **PROG(ram)** .....flashes during programming/lights in program mode
- 10 **REPEAT TRACK/ALL**..lights up when a track/complete disc (or program) is repeated
- 11 **SCAN** .....lights up when the first 10 seconds of each track are played
- 12 **SHUFFLE**.....plays tracks in random order
- 13 **■** .....CD player deck selected
- 14 **●** .....CD inserted (a pre-recorded CD or finalized CDR or CDR(W) disc)
- 15 **← RECORD -** .....lights during recording from the internal CD
- 16 **L/R II II**.....record/play level bar, indicates the audio signal level
- 17 **↑** .....DJ mode selected
- 18 **↔ CHANGER ↔** .....changer mode selected
- 19 **II**.....pause function active
- 20 **▶** .....lights during play
- 21 **R(W)** .....unfinalized CDR(W) disc inserted
- 22 **●** .....lights during recording
- 23 **ANALOG**.....- analog input selected for external recording  
- analog recording
- 24 **OPTICAL I** .....optical input I selected for external recording
- 25 **DIGITAL I** .....digital input I selected for external recording
- 26 **SYNC** .....synchronized recording active
- 27 **MANUAL** .....manual recording active

# DISPLAY

## 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 (CD recorder)
RECORD FAST	high-Speed recording selected
REC LISTEN	listen Speed recording selected
MAKE CD	high-speed recording of a complete disc and Auto Finalize function selected
REC EXT DISC	synchronised start of recording from external source selected
REC EXT MAN	manual start of recording from external source selected
-xx dB	level is being adjusted
DOES NOT FIT	time left on CDR(W) disc is not enough for proposed recording
ANALOG REC	copy prohibited track found during recording. Track will be copied analog (Copy Protection Regulations)
ERASE TRACK	when erasing one or more tracks
ERASE DISC	when erasing a disc
FINALIZE CD	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 synchronized recording from a source (e.g. CD player)
FINALIZED CD	when trying to record on a finalized CDR or a prerecorded CD
UNFINALIZE/	when trying to record on a finalized CDRW
PRESS ENTER	when a professional source is connected
PROF SOURCE	when a professional source is connected
REC TEXT	when reading CD text from source disc for recording
TEXT PROTECT	when CD text of source disc is subjected to copy protection (CD text will not be recorded)

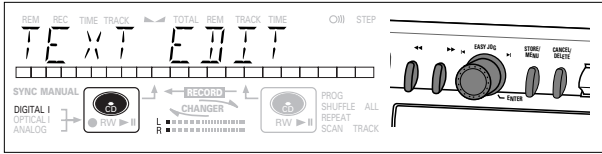
### Play

CHANGER MODE	CD changer-mode selected
DJ-MODE	DJ- mode selected when recording keys are pressed in DJ-mode
PROGRAM	program mode selected
ALBUM TITLE	will be followed by album title
TRACK TITLE	will be followed by track title
ALBUM ARTIST	will be followed by artist's name
TRACK ARTIST	will be followed by track artist's name

### Others

NO AUDIO TR	when the recorder enters a data track during recording
FINALIZE CD	laser power calibration performed 96 times, finalize disc needed
INITIALIZING	during laser power calibration for unfinalized discs
DISC RECOVER	during disc recovery after power failure
OPC ERROR	OPC failure during OPC procedure (OPC = Optimum Power Calibration)
RECORD ERROR	recording error in menu mode
DISC ERROR	when 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
FINALIZE CD	
NOT POSSIBLE	when trying to erase a CDR

**MENU messages - See Menu mode**



**Menu messages**

- NO TRACKS .....when attempting to edit text for a disc which has no tracks
- TEXT EDIT .....when entering Text Edit mode
- ALBUM ARTIST .....when editing or erasing an artist's name
- ALBUM TITLE .....when editing or erasing a title
- ARTIST TR N.....when editing or erasing an artist's name per track
- TITLE TR N.....when editing or erasing a title per track
- TEXT ERASE .....when entering Text Erase mode
- ALL TEXT .....when entering All Text mode
- ERASE OK .....when confirmation for erasing must be given with ENTER key
- ERASE ALL OK .....when confirmation for erasing must be given with ENTER key
- ERASE MEMORY .....when waiting for confirmation for erasing a disc
- MEMORY VIEW .....when selecting text review per unfinalized disc in memory
- MEMORY EMPTY .....when REVIEW is selected while no text is in memory
- AUTO TRACK .....when selecting auto track increment ON or OFF
- ON .....auto Track increment on
- OFF .....auto Track increment off
- SET BALANCE .....when selecting BALANCE
- NO TEXT .....no text stored for disc

**Connections general**

For playback on the CD recorder (and/or CD player deck) the following outputs are present:

- Digital coaxial output (CD & CDR);
- Analog output (CD & CDR).

We advise you to connect these to the TAPE or CDR input on your amplifier.

For external recording the following inputs are present:

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

For playback of CD player deck separately (DJ mode) from the CD recorder the following outputs are present:

- Digital coaxial output (CD);
- Analog output (CD).

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.

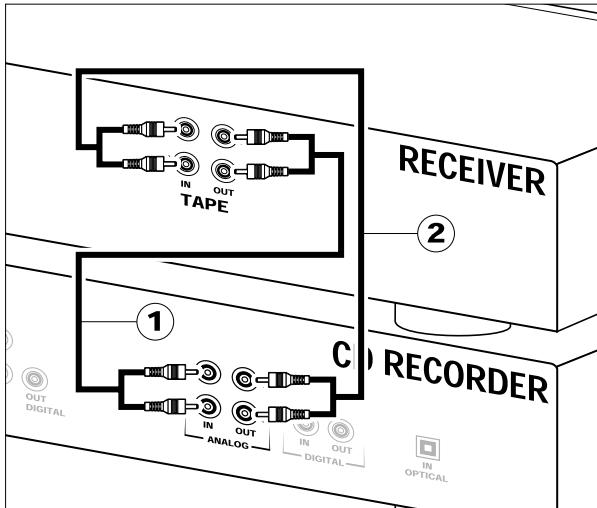
We advise you to always establish both digital and analog connections. This will mean that analog recordings can always be made when digital recording is not possible.

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.

# INSTALLATION

## Analog connections CD recorder & CD player

This connection must be made for playback on the CD recorder deck as well as the CD player deck (cable ②). Cable ① is only required if you want to make recordings from an external analog source.



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.

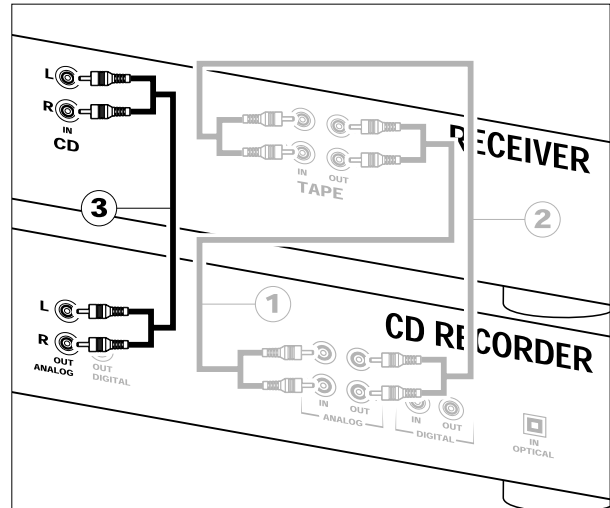
*Note: For recording directly from a CD player, the analog input of the CD recorder should be connected to the analog output of the CD player.*

- 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.*

## Analog connections CD player deck

This connection is only required if you want to playback on the CD player deck separately from the CD recorder deck. This will be the case in DJ-mode.



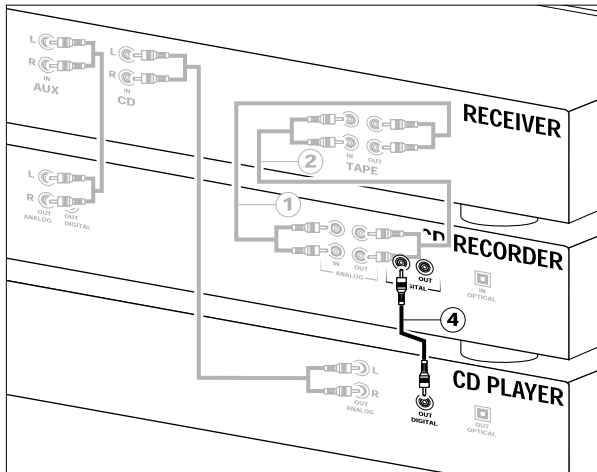
- 1 For separate playback on the CD player deck, connect a third cable ③ (not supplied) between the ANALOG OUT sockets of the CD recorder and the input sockets of an amplifier e.g. CD, or AUX. (Connect the red plugs to the R sockets, and the white plugs to the L socket.)

*Note:*

- Never use the PHONO input.
- Your CD recorder/player is equipped with a digital coaxial output for the CD player deck. This output can be used for digital playback.

## Digital coaxial connections CD recorder

This connection is only required if you want to make recordings from an external CD player with a digital coaxial output.



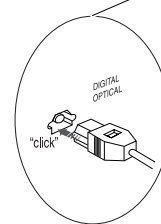
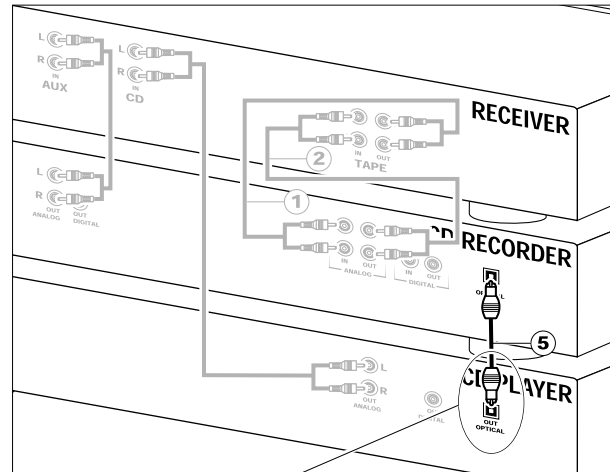
Use the digital coaxial cable supplied.

- 1 For external recording, connect the cable ④ between the DIGITAL IN-socket on the CD recorder and the DIGITAL OUT-socket of an external CD player.

*Note: Your CD recorder is equipped with a digital coaxial output (common output for CD recorder & CD player deck). This output can be used for digital playback.*

## Digital optical connections CD recorder

This connection is only required if you want to make recordings from an external CD player with a digital optical output.



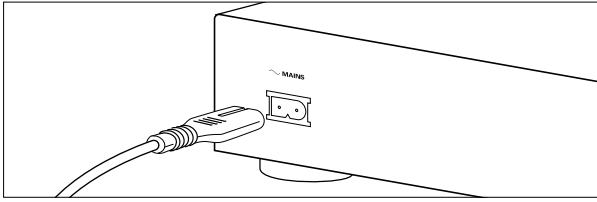
When connecting the Digital Optical cable, make sure it is fully inserted until there is a click.

- 1 Remove the dust caps from the digital optical connection. (We recommend you save the cap.)
- 2 For external recording, connect a fibre-optic cable ⑤ between the digital optical input of the CD recorder and the digital-optical output of an external CD player.

*Note: For playback, the digital coaxial outputs or analog outputs of the CD Player and CD recorder should be connected to an amplifier.*

# INSTALLATION

## 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 CD recorder will switch on.

### Note:

- If the CD recorder is in Standby mode (red LED on), press any key to activate the recorder.
- 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.

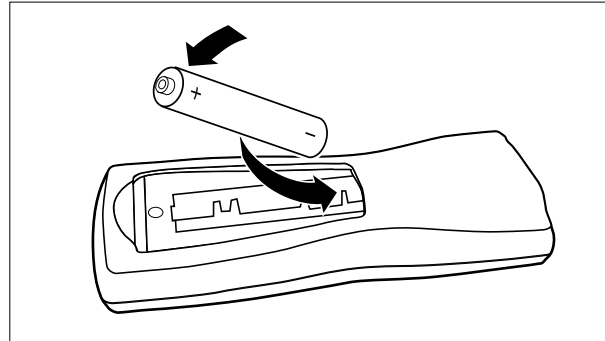
## Setup recommendations

- 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 for proper ventilation.

### Important:

- Do not put the CD recorder on top of other equipment that will heat up the CD recorder (e.g. receiver or amplifier).

## Inserting batteries in the remote control



**1** Open the battery compartment cover.

**2** Insert 2 batteries ("AA", LR-6 or UM-3; as supplied) as shown.

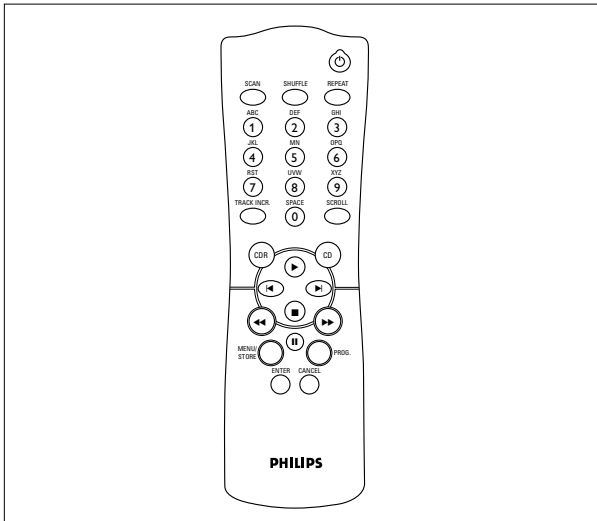
**3** Replace the cover.

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

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

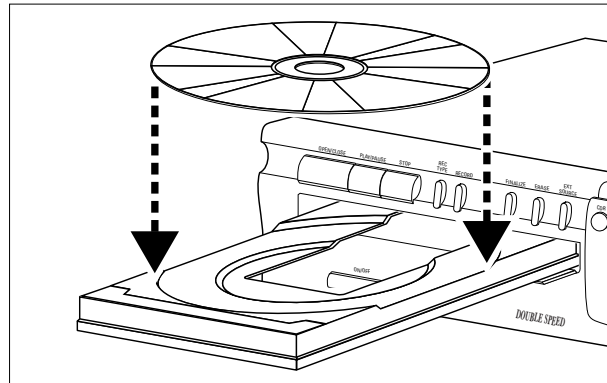


## Remote control commands

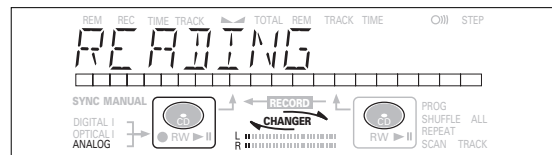


- STANDBY** .....switches to Standby/On
- SCAN** .....plays the first 10 seconds of each track
- SHUFFLE** .....plays CD(RW) or program in random order
- REPEAT** .....repeat play
- Number/alphabet keys 0 - 9**
  - ..... - selects a track by number
  - ..... - selects character for text input
- TRACK INCR(ement)** .....increases track numbers during recording
- SPACE** .....inserts a character space during text input
- SCROLL** .....activates scrolling of text over the display
- CDR** .....selects CD recorder deck
- CD** .....selects CD player deck
- ▶** .....starts CD(RW) play
- ◀** ..... - previous track (Play and Program mode)
  - ..... - cursor control in Menu/Prog. review mode
- ▶|** ..... - next track (Play and Program mode)
  - ..... - cursor control in Menu/Prog. review mode
- .....stops CD(RW) and clears a program
- ◀◀** .....searches backward
- ▶▶** .....searches forward
- ||** .....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

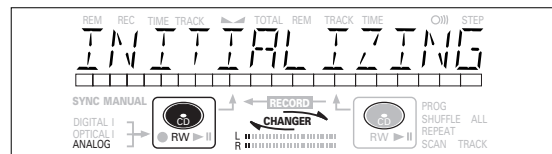
## Inserting discs



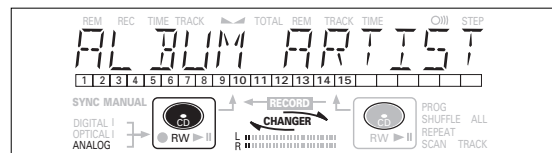
- 1** Press OPEN/CLOSE to open the disc tray.  
→ **OPEN** lights up.
- 2** Insert a CD, CDR or CDRW in the appropriate recess in the tray, label side up.
- 3** Press OPEN/CLOSE to close the tray (see also Playing a CD).  
→ **CLOSE** lights up, followed by **READING** the display will show the type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



- If a 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.



- 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/USE AUDIO CD**.
- Reading an unfinalized disc in the CD recorder deck could take approximately 1 minute.
- For recording it is important that the blank disc is completely free from dust particles or scratches. (See maintenance).

## 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. The following will be explained:

- Recording from an internal CD player deck: high-speed or listen mode.
- Recording from an external CD player deck: synchronized start with CD player or manual start (analog or digital).
- 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.
- CD text can be added to a recording in Stop mode and during recording.
- CD text cannot be recorded from an external CD player. (Text information is not available on the output of the CD player.)
- The CD recorder deck is able to record CD text from the internal CD player deck (if not subjected to copy protection). This may take up to 2 minutes.
- 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. *DOES NOT FIT* 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 always use *REC EXT DISC*.**

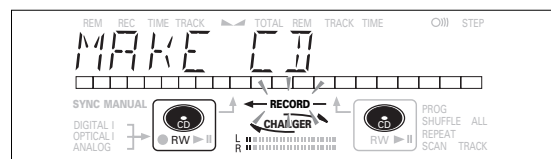
## Recording modes

Your recorder offers several recording modes.

### For recording from internal CD-deck:

- *RECORD FAST* (high-speed digital recording) - fast recording of a disc or programmed tracks.
- *REC LISTEN* (normal-speed digital recording) - listening to a recording while making it.
- *MAKE CD* (high-speed digital recording and auto-finalize) - fast recording of a disc or programmed tracks. Recording will be finalized automatically.

**Warning:** *No more recording possible after finalizing CDR disc!*



### For recording from external sources:

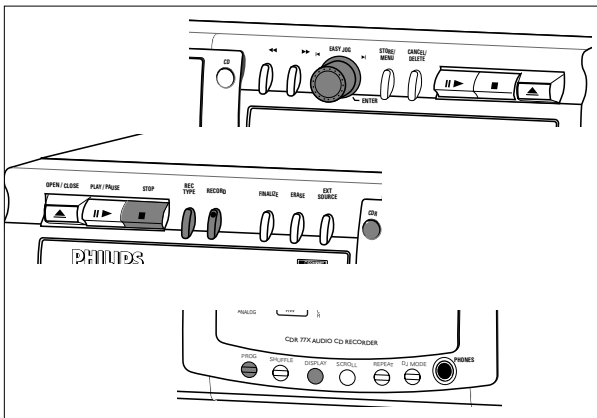
- *REC EXT DISC* (automatic start of recording) - to make an automatic recording of an external source simply by starting the source.
- *REC EXT MAN* (manual start of recording) - to start a manual recording from an external source.

### Some remarks on recording:

- During high speed recording, the original recording quality will be maintained.
- When Auto track is on (default setting), track numbers will automatically be increased during recording.
- By programming tracks 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 will not be 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.

*Note: If during recording *ANALOG REC* appears, the track will be recorded as analog, at normal speed. All other tracks will be copied normally (at double speed).*

## High speed recording from internal CD player

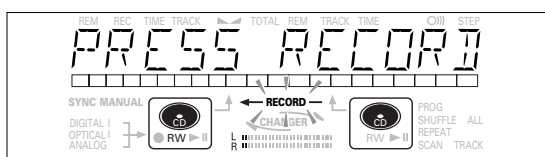
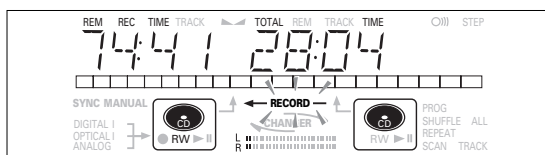
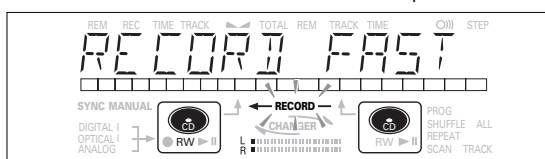


During high speed recording the sound is not audible.

### Preparing for high speed recording

- 1 Make sure that the recording disc is absolutely free of scratches and dust particles.
- 2 To choose the type of recording, **press REC TYPE:**  
*once:* to select 'RECORD FAST' if you wish to make a fast recording of a disc or programmed tracks;  
*three times:* to select 'MAKE CD' if you wish to make a fast recording of a disc or programmed tracks and to automatically finalize the recording. Also see 'Finalizing CDR & CDRW discs'.

→ The display first shows the selection.  
 The ← **RECORD** – label starts blinking. After 3 seconds the display shows the remaining CDR(W) recording time on the left and total time of source on the right. (every 2 seconds *PRESS RECORD* is displayed.)  
 The left-hand selection indicator is lit up.



- If *DOES NOT FIT* appears on the display, there is not enough recording space left on the CDR(W) disc. You can press **RECORD**: only complete tracks that still fit on the CDR(W) will be recorded

or

- You can press **PROG** to select one or more tracks for recording (see programming):
  - rotate the **EASY JOG/ENTER** key to the required track number, then press the key (or **ENTER** on the remote control)
  - or
  - directly select the track number via the 10-keypad on the remote control, then press the **ENTER** key to confirm your selection and go to the next step.

### Start high speed recording

- 1 To start recording **press RECORD.**

→ **WAIT** lights up. The display shows the total remaining time for the selected recording. High-speed recording starts. ← **RECORD** – lights up continuously.

- To check the track number and track time, press **DISPLAY**. This can be done during recording.
- Recording will stop automatically.

*Note: Copy prohibited tracks will be copied analog. ANALOG REC is displayed.*

- 2 To stop recording manually, press **STOP**.

→ **UPDATE** lights up, ← **RECORD** – goes out and recording stops. (Minimal track length must be 4 seconds otherwise silence will be added to the track.)

- If **STOP** was pressed within 3 seconds after **RECORD**, no recording will take place.

After recording, the display shows **UPDATE** for several seconds. The Total time indications can differ slightly. However, no music information is lost.

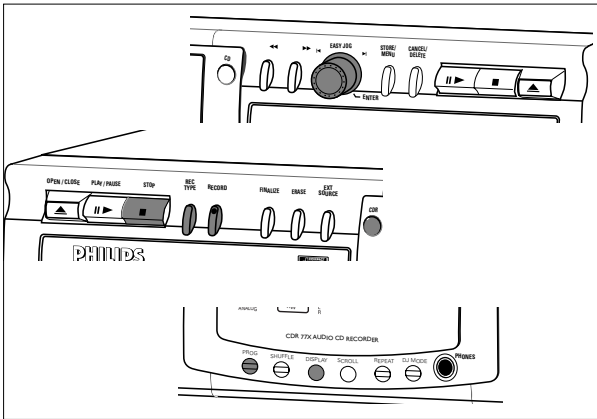
*Note: In this Recording mode, the Pause function is not operative.*

**Important:**  
**If you want to play the recorded CDR disc on any regular CD player, it must first be finalized. See finalizing discs.**

**Finalized CDRW discs play only on CDRW compatible CD players.**

# RECORDING

## Listen mode recording from internal CD player



During Listen mode recording you listen to the recording while you are making it.

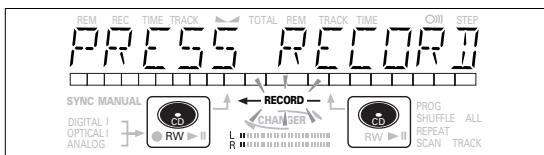
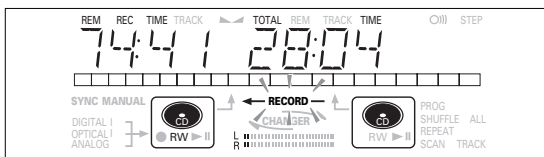
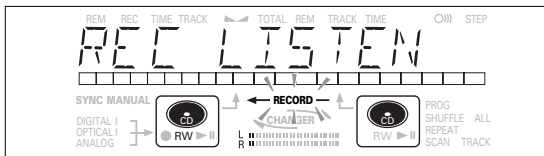
### Preparing for Listen mode recording

1 Make sure that the recording disc is absolutely free of scratches and dust particles.

2 For recording, press **REC TYPE** twice:

→ the display first shows the selection.

The **← RECORD -** label starts blinking. After 3 seconds the display shows the remaining CDR(W) recording time on the left and total time of source on the right. (every 2 seconds **PRESS RECORD** is displayed) The left-hand selection indicator is lit up.



• If **DOES NOT FIT** appears on the display, there is not enough recording space left on the CDR(W) disc. You can press **RECORD**: only complete tracks that still fit on the CDR(W) will be recorded.

or

You can press **PROG** to select one or more tracks for recording (see programming):

- rotate the **EASY JOG/ENTER** key to the required track number, then press the key (or **ENTER** on the remote control)

or

- directly select the track number via the 10-keypad on the remote control, then press the **ENTER** key to confirm your selection and go to the next step.

3 Play the source first to set the optimal recording level on the CD recorder.

4 Rotate the **EASY JOG/ENTER** key until, on the Record/Play Level bar, all the blue segments are lit up, but the red segments do not light up continuously during the loudest passages.

→ Display shows **-XX dB** (Decibel, e.g. **-30dB**).

5 Stop the source.

### Start Listen mode recording

1 To start recording, press **RECORD**.

→ **WAIT** lights up. **← RECORD -** lights up continuously and the selected track or program is copied at normal speed. The track number and the recording time left will appear.

• To check the track time, press **DISPLAY**. This can be done during recording.

• Recording will stop automatically.

*Note: Copy prohibited tracks will be copied analog. ANALOG REC is displayed.*

2 To stop recording, press **STOP**.

→ **UPDATE** lights up, **← RECORD -** goes out and recording stops. (Minimal track length must be 4 seconds otherwise silence will be added to the track.)

• If **STOP** was pressed within 3 seconds after **RECORD**, no recording will take place.

After recording, the display shows **UPDATE** for several seconds. The Total time indications can differ slightly. However, no music information is lost.

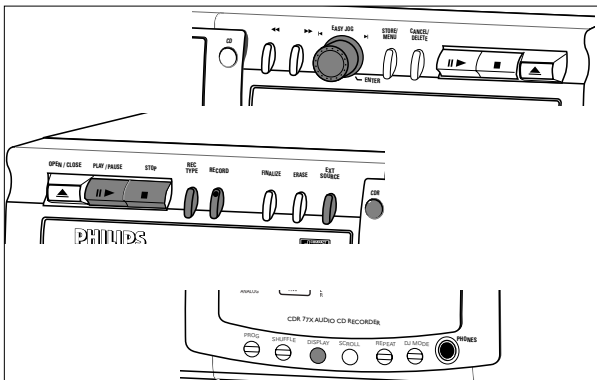
*Note: In this recording mode, the Pause function is not operative.*

### Important:

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

**Finalized CDRW discs play only on CDRW compatible CD players.**

## Manual recording from external CD player

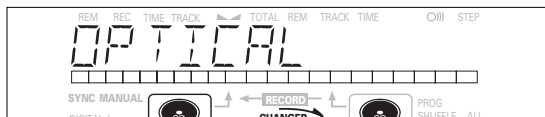


### Important:

- Recording from CD-changers should always be started in the Auto-Start 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 EXT(ernal) 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.



- 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 taken over from the digital source material or after 2.7 seconds of silence during analog recording.

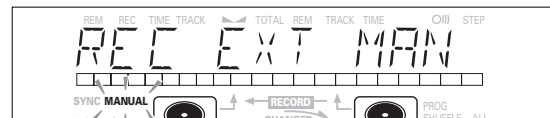
OFF (manual): While recording, track numbers can be incremented manually by pressing TRACK INCR(ement) on the remote control. (Minimum track length is 4 sec.) (This can also be done in Auto track on mode.)

- 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 five times to enter the Manual Record standby mode.

→ **MANUAL** will start to flash and the display will show REC EXT MAN followed by WAIT. After a few seconds, PRESS RECORD followed by the remaining time and track number will appear on the display.



- 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 - \* x 00 (Decibel, e.g. - 300).
- 6 Stop the source.

### Start recording

- 1 To start recording, press **RECORD** on the CD recorder and immediately start the source (from Pause or Stop mode).
  - **RECORD** will light up continuously. The track number and recording time left will appear on the display.
  - If CHECK INPUT message also flashes, the digital connection is incorrect.
  - 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 total remaining 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.
  - UPDATE lights up and RECORD 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. RECORD will start to flash. Press PAUSE again to restart recording. (A new track will always be made.)

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.*

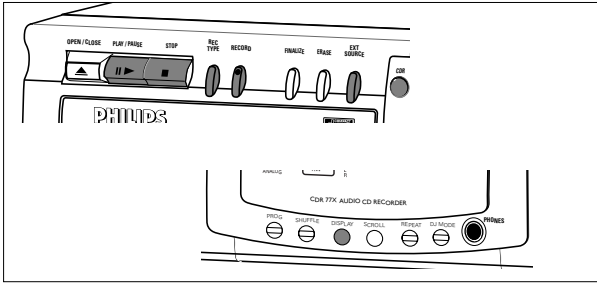
### Important:

**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 always use REC EXT DISC.**

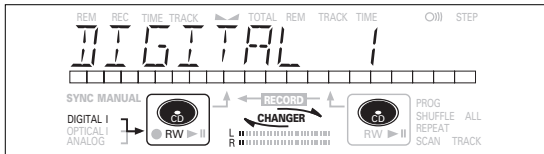
## Autostart recording from external CD player CD-SYNC



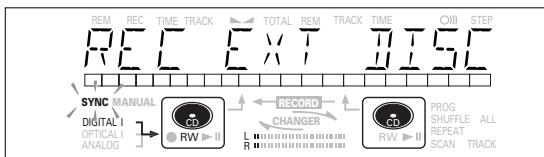
The CD-SYNC feature enables you to make fast and easy recordings of a CD. Track increments are automatically detected from the source material. Track increments cannot be added manually. In analog source material a silence of 2.7 seconds or more is automatically detected as a track increment.

### Preparing for autostart recording

- 1 Make sure the disc is absolutely free of scratches and dust particles.
- 2 Press **EXT(ernal) SOURCE** repeatedly until (depending on the digital 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** four times if you wish to record a complete disc or program.
  - **SYNC** and **SYNC** will start to flash and the display will show **REC EXT DISC** and **WAIT** followed by the track number, the total remaining time and **START SOURCE**.



- If input label (**DIGITAL I**) 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 **PLAY** lights up continuously. The track number and track time will appear on the display.
  - If, however, you start the source during a track, CD-SYNC recording starts at the beginning of the next track or after 2.7 seconds of silence in analog recordings.
  - To check the remaining recording time on the CDR(W), press **DISPLAY**. (This can also be done during recording.)
  - The **EASY JOG/ENTER** key can be used to adjust the recording level.
  - The recorder stops automatically.
- 2 To stop recording manually, press **STOP** on the CD recorder.
  - **UPDATE** lights up and **SYNC** and **PLAY** 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.
    - **PLAY** starts to flash. (Autostart recording is disabled.) 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.
- Auto track is always active.

### 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 always use **REC EXT DISC**.**



## Finalizing CDR & CDRW discs

During finalizing, the Table of Contents (TOC) is written to the disc.

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,
- write CD text on a CDR(W).

### Auto finalizing

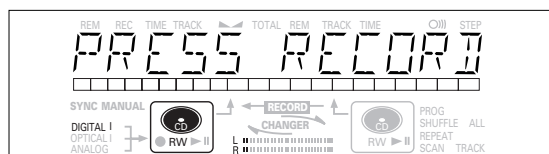
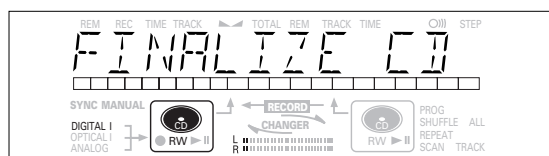
Auto finalizing is possible when using the MAKE CD recording function.

### 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 CD** 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), changes to on display.

Finalizing will take at least 2- 4 minutes.

Note:

- During finalization, the CD recorder will not accept operating commands.
- When a CDR has been finalized, no more recordings can be added.

## Unfinalizing CDRW discs

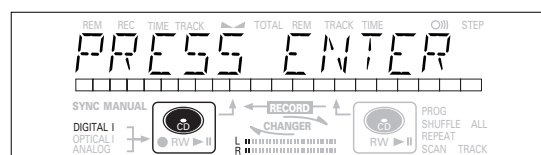
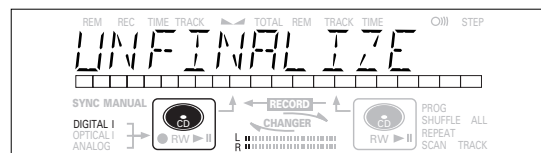
**For CDRW discs only.**

If you want to make more recordings (or erasures of tracks) on a finalized disc, you must unfinalize it first. The Table of Contents (TOC) will be removed. (This is not possible for CDR discs.)

To unfinalize:

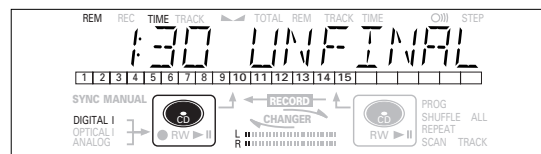
1 With the CD recorder stopped, press REC TYPE or ERASE.

→ UNFINALIZE and PRESS ENTER will appear on the display.



2 Press JOG (ENTER).

→ The disc will now be unfinalized and can be recorded on again and the recording or erasure mode is entered.



3 You can now start recording or erasing. If no further recording or erasure is required, press STOP ■.

Note:

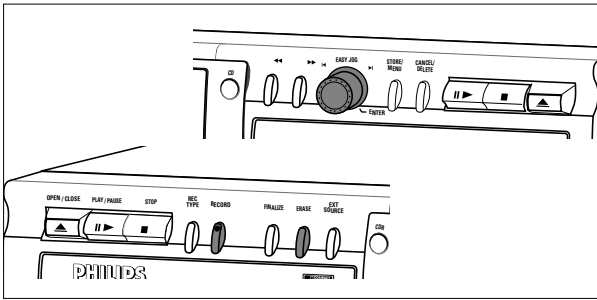
- Unfinalizing will take approximately 1 minute 30 seconds.
- When unfinalizing a CDRW disc with text available on it, this text will be transferred to the CD recorder memory. The text memory may be full. If so, the message MEMORY FULL/FINALIZE CD will be displayed.

To empty the recorder's text memory, you will have to erase text from it. This can be done in two ways:

- 1) Finalize one or more unfinalized discs for which CD text is available.
- 2) Delete text of unfinalized discs with the 'memory view' option in the Menu mode.

# RECORDING

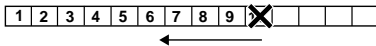
## Erasing CDRW discs



For unfinalized CDRW discs only.

You can erase:

- Tracks can only be erased from the end.



- With the EASY JOG you can erase more tracks.



*Note: It is not possible to erase tracks within the sequence.*

- It is also possible to erase the entire disc at once.

### To erase one or more tracks from the end:

- 1 Press ERASE once.

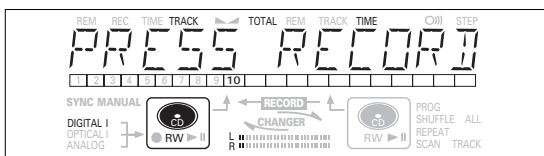
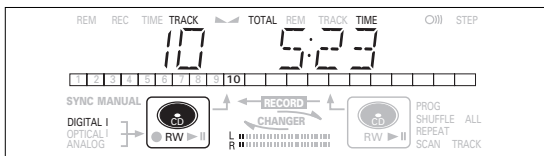
→ The display will show the number of tracks and their total playing time. *ERASE TRACK* and *PRESS RECORD* will light up.

- 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.

→ The selected track numbers will start blinking on the track bar.

→ The display will show the remaining time after erasing the selected track(s). The track shown will also be included in the erasure of tracks.



- 3 Press RECORD.

→ The display will show the total countdown time and *ERASE*.

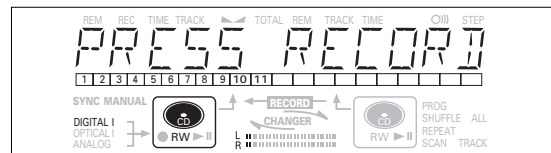
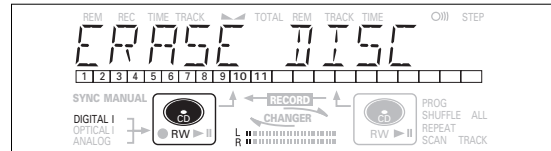
→ After the selected track(s) has/have been erased, the display will show the number of remaining tracks and their total playing time.

### To erase the entire disc:

- 1 Press ERASE twice.

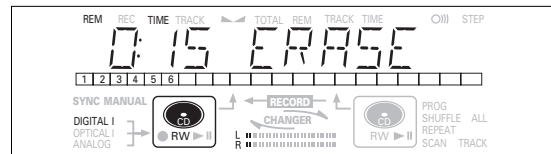
→ The display will show the number of tracks and their total playing time. *ERASE DISC* and *PRESS RECORD* will light up.

- 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.



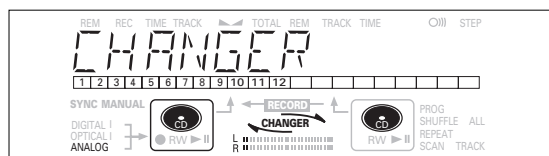
Erasure of a complete disc may take up to 15 seconds.



**Play a 2-disc changer (Changer mode)**

Your CD recorder is able to play the two decks sequentially (CHANGER mode). This is the default setting.

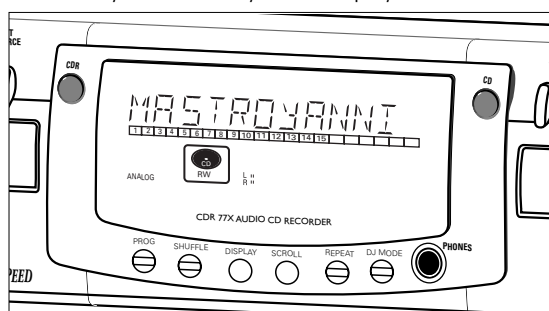
- 1 Select Changer mode using the DJ MODE key.  
→ CHANGER appears on the display and CHANGER lights up.



- 2 On the deck you want to play, press PLAY/PAUSE ►|| to start CD play.  
→ ►|| lights up, the track number and track time of the track being played will appear on the display.  
→ After playing the first disc, the second disc will be played automatically.

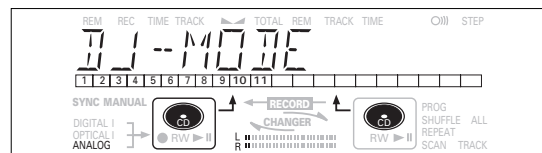
- Press DISPLAY once, twice or three times to see:  
→ remaining track time, total remaining time, permanent text information (see Menu mode)
  - To interrupt play temporarily, press PLAY/PAUSE ►|| again.  
→ || lights on the display.
  - To continue play, press PLAY/PAUSE ►|| again.
- 3 To stop play, press STOP ■.  
→ The number of tracks and the total playing time appear on the display.

- If you want to see the information for the other deck, press the CDR key or the CD key in the display frame.

**Playing CDs on Deck 1 and/or Deck 2 (DJ mode)**

With this double deck it is possible to play the CD recorder deck and/or the CD player deck individually (at the same time). In this case the extra CD output must also be connected to an amplifier.

- 1 Select DJ mode using the DJ MODE key.  
→ DJ MODE appears on the display and DJ MODE lights up.

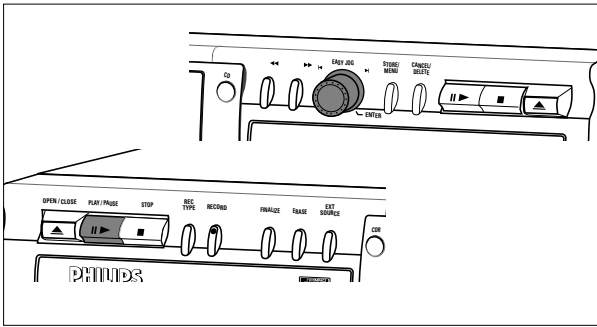


- 2 On the deck you want to play, press PLAY/PAUSE ►|| to start CD play.  
→ ►|| lights up and the track number and track time of the track in play appear on the display.

- You can also play the two decks at the same time. By pressing the CDR key or the CD key you can choose the deck you want to listen to.
- Press DISPLAY once, twice or three times to see:  
→ remaining track time, total remaining time, permanent text information (see Menu mode)
- To interrupt play temporarily, press PLAY/PAUSE ►|| again.  
→ || lights on the display.
- To continue play, press PLAY/PAUSE ►|| again.

- 3 To stop play, press STOP ■.  
→ The number of tracks and the total playing time appear on the display. If you want to see this information about the other deck, press CDR or CD.

## 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

Select CDR or CD on the remote control and key in the required track number using the numerical keys on the remote control. For 2-digit track numbers, press the keys in rapid succession. For tracks on the other disc, first press CD or CDR as applicable.

- Play skips to the beginning of the selected track.

or

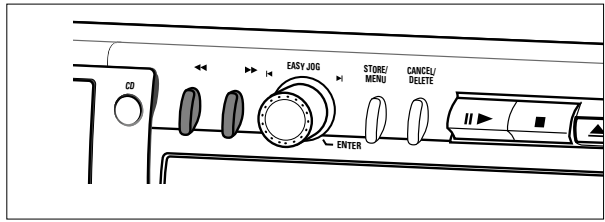
Press ◀ or ▶ on the remote control one or more times.
 

- Play skips to the beginning of the present, previous or subsequent tracks, including tracks on the disc in the other deck. (changer mode only).

### 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 Select CDR or CD on the remote control and key in the required track number using the numerical keys. 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 Hold down ◀◀ or ▶▶ (in play mode).
  - 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**

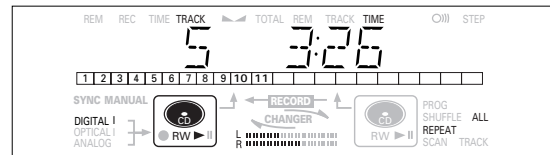
Only in Changer mode.

- 1 Select Changer mode, if necessary, using the DJ MODE key.
- 2 Press SHUFFLE before or during CD play to start shuffle play.
  - The tracks on the CD (or program if set) will play in random order.
- 3 Press SHUFFLE again to disable the Shuffle mode.
  - CD recorder will go to Stop mode.

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

**Repeat CD, track or program**

- 1 Press REPEAT 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 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 of the 2-disc changer.
- **REPEAT** is also cleared when you open the disc tray.

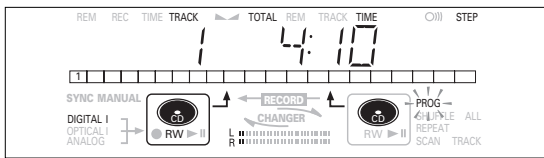
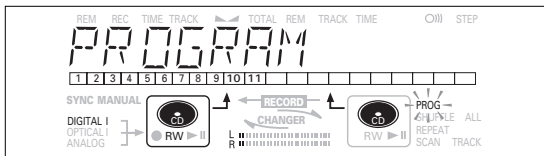
# PROGRAMMING

## Remarks about programming

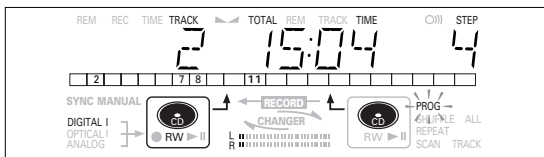
- You can program up to 99 tracks to play in any desired sequence.
- Tracks can be programmed more than once, but each time counts as a track (**STEP**).
- A program for playback can be made from both the disc in the recorder deck and the disc in the player deck. A program for recording can only be made from the disc in the player deck.

## Programming for playback

- 1 Select Changer mode or DJ mode using the DJ MODE key.  
→ **CHANGER** or **DJ MODE** appears on the display.
- 2 Press CDR or CD to select the required deck.  
→ Selected key lights up.
- 3 Press **PROG(ram)** to enter Program mode.  
→ **PROG** flashes and **PROGRAM** followed by track information appears on the display.



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



or:

Key in a track number with the number keys on the remote control and press ENTER to confirm. 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 (**STEP**) are displayed.

- 5 Repeat step 4 for all tracks to be programmed.
- 6 Press STOP or **PROG(ram)** to end programming.  
→ **PROG** lights continuously.
- 7 Press **PLAY/PAUSE** ►|| to start programmed play.

## Programming for recording

- 1 Press **REC TYPE** to select the required recording mode (see 'Recording').
- 2 Compile your program as described in "programming for playback". (steps 3 to 5).
  - Only tracks from the disc in the CD player can be stored.
- 3 Press **RECORD** to start recording.

Note:

- To review the program, press **PROG(ram)**, followed by ◀◀ or ▶▶ with the CD recorder in Stop mode.

- To add more tracks to the program, repeat steps 1 to 7.

- 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.  
→ **PROG** 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)** to enter Program mode.
- 2 Use ◀◀ or ▶▶ to select the track that has to be deleted.  
→ The track number and program step will be shown on the display.
- 3 Press **CANCEL/DELETE** to erase the track from the program.  
→ The remaining program steps and the remaining playing time on the program will be displayed.
- 4 Repeat steps 2 and 3 for all tracks to be erased.
- 5 Press **STOP** ■ or **PROG(ram)** to end erasing.  
→ **PROG** will light up continuously.

## Remarks about Menu mode

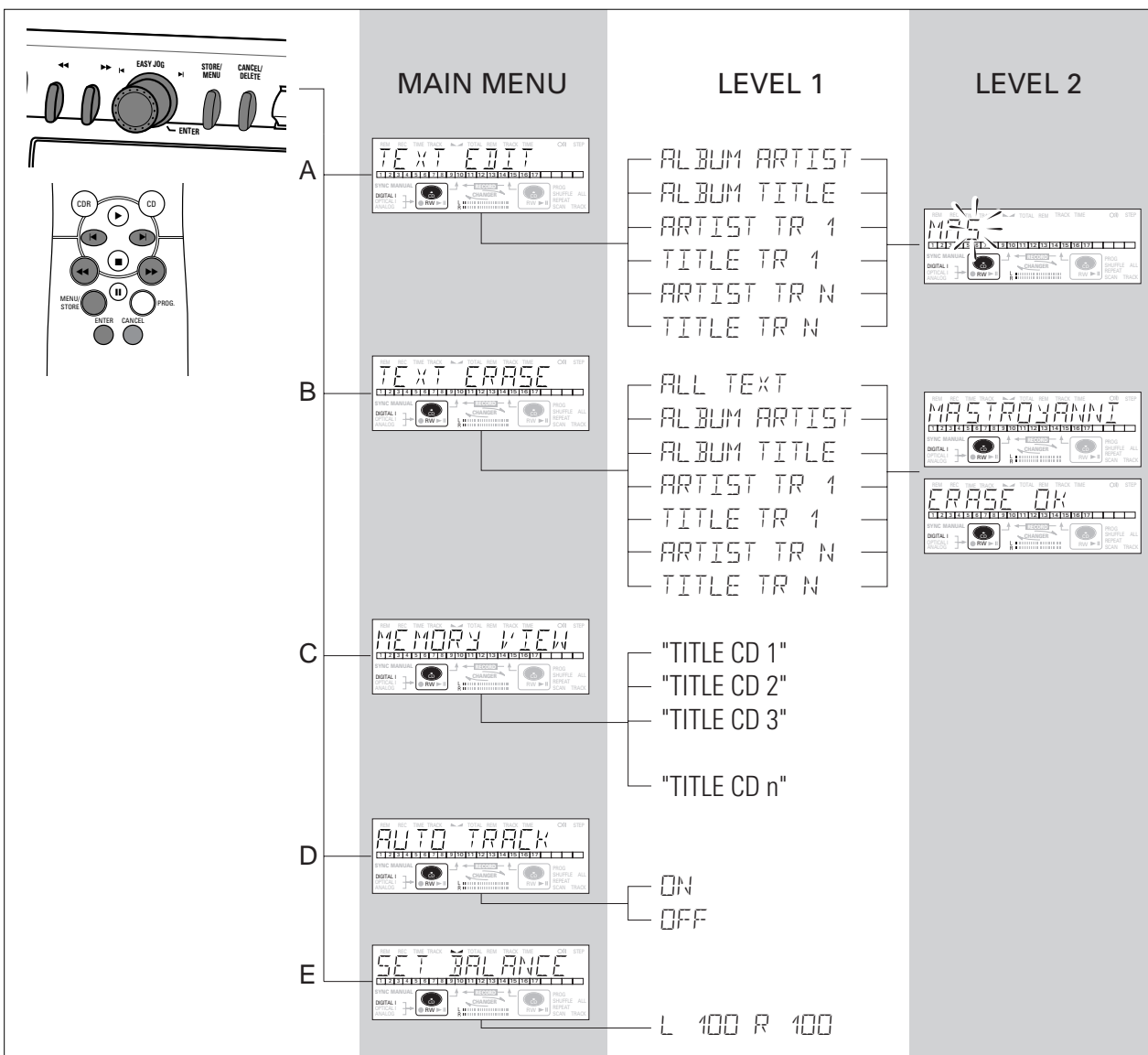
- In Menu mode you will have access to a number of features which are not available via the regular keys (on the deck's front and the remote control).
- The TEXT submenus (A-B) allow you to give names to discs and tracks. The disc and track names will be displayed during playback.
- In the RECORDING submenus (D-E) 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 called up and changed at any time.

## General operation of Menu

Menu active in Recording or Stop mode.

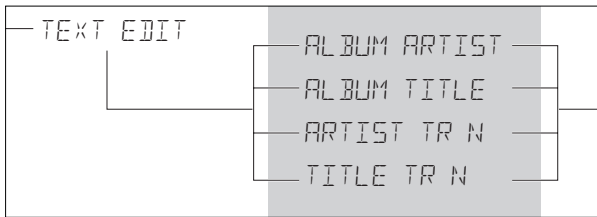
- 1 When using the remote control, select CDR first.
- 2 Press STORE/MENU on the deck or the remote control to enter Menu mode.  
→ TEXT EDIT will appear on the display.
- 3 Rotate EASY JOG/ENTER to select the required submenus.
- 4 Press EASY JOG/ENTER to confirm selections.
- 5 Rotate EASY JOG/ENTER to select options in the submenu.
- 6 Press EASY JOG/ENTER 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.)*



# MENU MODE/CD TEXT

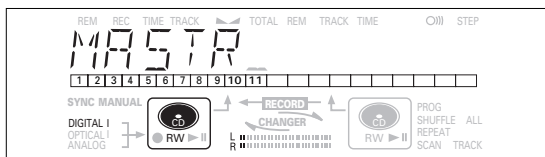
## A. Text input/text edit



CD Text can be added to a recording or changed. This can be done in Stop mode or during recording.

Text will be stored in the recorder memory and can be edited until the CDR is finalized. Text on a (unfinalized) CDRW can be edited at any time.

- 1 Press STORE/MENU.  
→ `TEXT EDIT` will appear on the display.
  - 2 Press EASY JOG/ENTER to confirm.  
→ `ALBUM ARTIST` will appear on the display.
  - 3 Rotate EASY JOG/ENTER to select the required option in the submenu: `ALBUM ARTIST`, `ALBUM TITLE`, `ARTIST TR 1`, `TITLE TR 1`, etc.
  - 4 Press EASY JOG/ENTER to confirm.  
→ The first character space appears on the display.
  - 5 Select the characters by rotating the EASY JOG/ENTER key or by pressing the corresponding numeric/alphabet key on the remote control.
  - 6 Press EASY JOG/ENTER to store each character and move to the next cursor position.
- With the `◀` and `▶` keys you can move to a required cursor position.
  - With the CANCEL key you can delete a character.

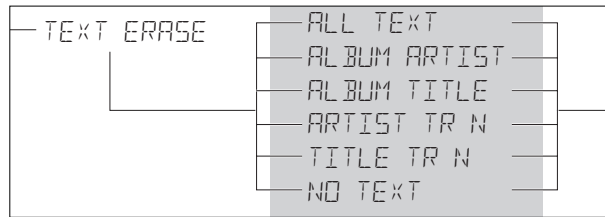


- 7 Press STORE/MENU to store a name you have entered and return to the submenu, press **3** to resume or STOP ■ to exit.

**Note:**

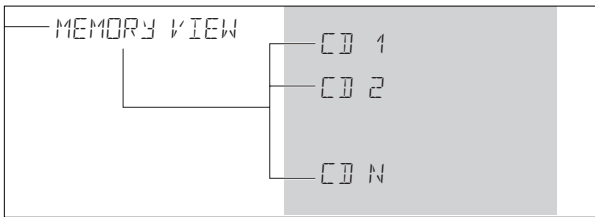
- A maximum of 60 characters can be stored per item.
- By pressing the EASY JOG/ENTER key or ENTER on the remote control without selecting a character first, you can insert a space between characters.
- When an artist's name has been stored for a certain track, the name will automatically be copied for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

## B. Erasing text/text erase



- 1 Press STORE/MENU.  
→ `TEXT ERASE` will appear on the display.
- 2 Rotate the EASY JOG/ENTER key to select the TEXT ERASE submenu.  
→ `TEXT ERASE` will appear on the display.
- 3 Press EASY JOG/ENTER to confirm.  
→ If text is available, `ALL TEXT` will appear on the display. (When there is no text available, the message `NO TEXT` will appear on the display.)
- 4 Rotate EASY JOG/ENTER to select the required option in the submenu: `ALL TEXT`, `ALBUM ARTIST`, `ALBUM TITLE`, `ARTIST TR 1`, `TITLE TR 1`, etc.
- 5 Press EASY JOG/ENTER to confirm.  
→ The display will ask you to reconfirm your selection. `ERASE OK` will appear on the display.
- 6 Press EASY JOG/ENTER to reconfirm.  
→ `UPDATE` will appear on the display.
- 7 Press STORE/MENU to return to the submenu or STOP ■ to exit.

## C. Reviewing CD Text in memory/memory view

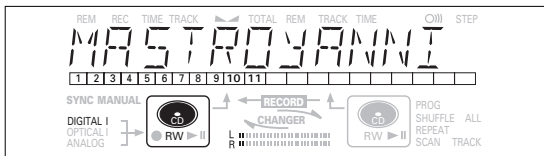


CD Text is stored in the recorder's memory. When a CDR(W) is finalized, the CD Text will be written on the disc and removed from the recorder's memory. With the MEMORY VIEW function you can view/delete the CD Text in the recorder's memory for each unfinalized disc. The amount of memory used is displayed each time the tray opens with an unfinalized CDR(W) inserted (e.g. *MEMORY 90/10*).

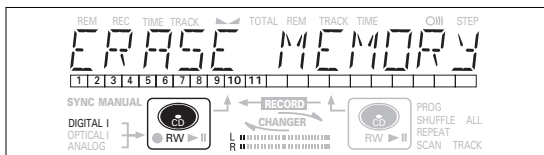
*Note:*

- If there are no discs in the memory, the message *MEMORY EMPTY* will appear on the display.
- When the text memory of your CD recorder 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 will have to 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.

- 1 Press STORE/MENU.  
→ *TEXT EDIT* will appear on the display.
- 2 Rotate the EASY JOG/ENTER key to select the MEMORY VIEW submenu.  
→ *MEMORY VIEW* will appear on the display.
- 3 Press EASY JOG/ENTER to confirm.  
→ The first album title in the recorder memory will appear on the display.
- 4 Select the album title you wish to erase by rotating the EASY JOG/ENTER key.



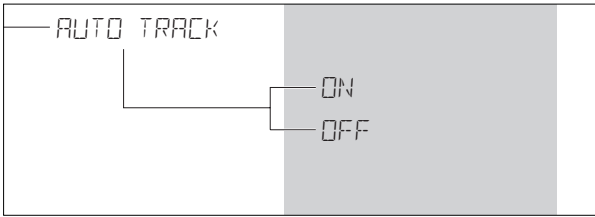
- 5 Press EASY JOG/ENTER to confirm.  
→ *ERASE MEMORY* will appear on the display.



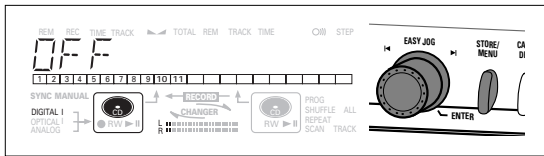
- 6 Press the EASY JOG/ENTER key to confirm the erasure of the text for that particular disc.  
→ *UPDATE* will appear on the display.
- 7 Press STORE/MENU to return to the submenu or STOP ■ to exit.

# MENU MODE/RECORDING SETTINGS

## D. Auto track increment/auto track

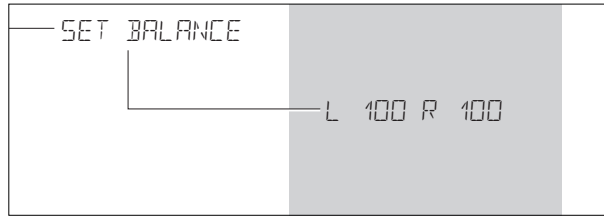


- 1 Press STORE/MENU.  
→ *TEXT EDIT* will appear on the display.
  - 2 Rotate the EASY JOG/ENTER key to select the AUTO TRACK submenu.  
→ *AUTO TRACK* will appear on the display.
  - 3 Press EASY JOG/ENTER to confirm.  
→ *ON* will appear on the display.
  - 4 Turn the EASY JOG/ENTER key to select Auto track *ON* or *OFF*.
- When *ON* is selected, track numbers will be automatically incremented during recording.
  - When *OFF* is selected, you can number the recorded tracks yourself.

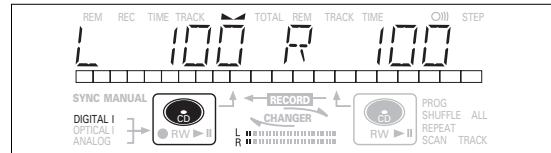


- 5 Press EASY JOG/ENTER to confirm.  
→ *AUTO TRACK* will appear on the display.
- 6 Press STORE/MENU to store settings and return to the submenu or STOP ■ to exit.

## E. Balance (only active in Record/Standby mode)



- 1 Press STORE/MENU.  
→ *TEXT EDIT* will appear on the display.
- 2 Rotate the EASY JOG/ENTER key to select the SET BALANCE submenu.  
→ *SET BALANCE* will appear on the display.
- 3 Press EASY JOG/ENTER to confirm.  
→ *▶▶* and *L 100 R 100* will appear on the display.



- 4 Adjust recording balance by turning the EASY JOG/ENTER key
- Turn to the left: the figure on the left (▶) counts down, that on the right counts up.
  - Turn to the right: the figure on the right (◀) counts down, that on the left counts up.
- 5 Press EASY JOG/ENTER to confirm.
  - 6 Press STORE/MENU to store settings.

*Note: The balance setting will not be stored permanently.*



## TROUBLESHOOTING

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** • ensure that the ON/OFF button is on (red LED on): the CD Recorder 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 that auto track on is selected in the menu
- 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
- total remaining time is not sufficient; try programming tracks (see programming)

### **Recording is distorted**

- make sure the recording level is correct

### **20 second pause between recordings**

- see Autostart recording from external CD player (CD-SYNC)

### **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

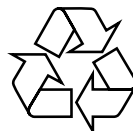


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