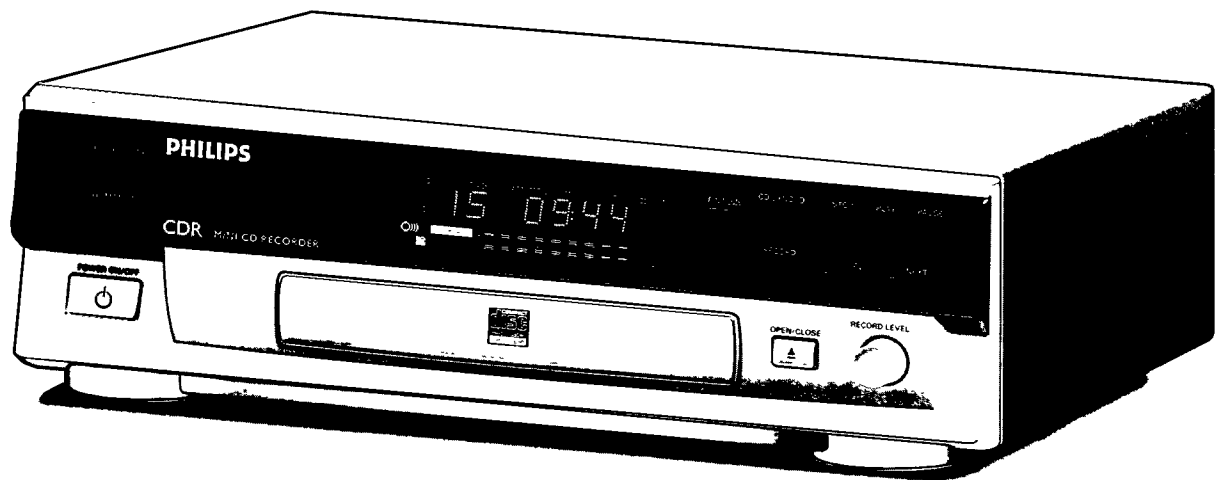


# PHILIPS

CDR 560/538 CD recorder



Instructions for use  
Mode d'emploi  
Instrucciones de manejo  
Bedienungsanleitung  
Gebruiksaanwijzing  
Istruzioni per l'uso  
Brugsanvisning  
Bruksanvisning  
Käyttöohje  
Manual de utilização  
Οδηγίες χρήσεως



# PHILIPS

# GENERAL INFORMATION

## DK

### Advarsel:

Usynlig laserudstråling ved åbning når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

## S

### Varning!

Om apparaten används på annat sätt än i denna bruksanvisning specificerats, kann användaren utsättas för osynlig laserstråling, som överskrider gränsen för läserklass 1.

## SF

### Varoitus!

Laitteen käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyttäjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteille.

## LASER SAFETY

This unit employs a laser. Only a qualified service person should remove the cover or attempt to service this device, due to possible eye injury.

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

**NEVER MAKE OR CHANGE CONNECTIONS WITH THE POWER SWITCHED ON.**



The CDR560/538 is in conformity with the EMC directive and low-voltage directive.

## 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.

CAUTION	INVISIBLE LASER RADIATION WHEN OPEN AVOID EXPOSURE TO BEAM
VARO!	AVATTAESSA OLET ALTIINA NÄKYMÄTTÖMÄLLE LASER SÄTEILYLLE ÄLÄ KATSO SÄTEESEEN
VARNING	OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD BETRAKTA EJ STRÅLEN
ADVERSEL	USYNLIG LASERSTRÅLING VED ÅBNING. UNDGA UNSAETTELSE FOR STRÅLING
DANGER	INVISIBLE LASER RADIATION WHEN OPEN AVOID DIRECT EXPOSURE TO BEAM
VORSICHT	INSICHTBARE LASERSTRAHLUNG WENN ABDECKUNG GEÖFFNET NICHT DEM STRAHL AUSSETZEN

CLASS 1  
LASER PRODUCT

LUOKAN I  
LASERLAITE

KLASS 1  
LASERAPPARAT

## For Customer Use:

Read carefully the information located at the back plate of your CD-Recorder and enter below the Serial N°.  
Retain this information for future reference.

Model N°.

.....CDR560/538.....

Serial N°.....

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# GENERAL INFORMATION

English

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## Welcome !

Thank you for buying this Philips Compact Disc Recorder.

In the eighties Philips invented a new audio system - the CD. The CD (compact disc) revealed to you the new dimensions of digital sounds and added to the pleasures of audio. Compact disc technology permits a high contrast in loud as well as in quiet 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 only to legal restrictions on copying. Naturally, you will also be able to play all pre-recorded audio CDs, and combined CDs such as CD Extra.

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

## Technical data

Subject to modification without notice.

Digital frequency response .....	0-22,050Hz
Playback S/N .....	100dB
Playback dynamic range .....	95dB
Play back total harmonic distortion .....	0.0056%, -85dB
Recording S/N (Analog).....	90dB
Recording S/N (Digital) .....	Equal to source
Recording dynamic range .....	92dB
Recording total harmonic distortion .....	0.0056%, -85dB

Digital coaxial input (IEC 958) .....	44.1 kHz +/-100ppm
Digital optical input (IEC958).....	44.1 kHz +/- 100ppm
Analog input (level potmeter) .....	500mVrms/50kΩ=0dB
Audio output .....	2V RMS ±2dB
Digital coaxial output.....	0.5 Vpp/75Ω
Headphones .....	0-5V RMS/8-2000Ω

Dimensions .....	265 x 305 x 88mm
Weight .....	4kg
Power consumption.....	15W
Operating temperature.....	5 - 35°C
Power Supply .....	AC 220-240V

***This set complies with the radio interference requirements of the European Community***

## Discs for recording

For recording use, special audio discs must be used (for music only). These Discs bear the logos as shown below. The text 'DIGITAL AUDIO' is present ! Copyright fees have been paid on these discs in some countries.

Your recorder uses two types of discs for recording purposes:

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



- **CD-Audio ReWritable (CD-RW) discs:**  
Can be recorded, erased and re-recorded hundreds of times. When finalized, they play on CD-RW compatible CD players and recorders.



In the course of 1999 most Philips CD players and recorders will be CD-RW compatible.

## Discs for playback

Your CD recorder is able to play:

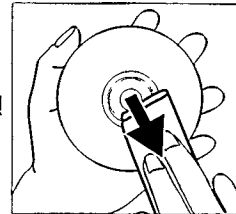
- All prerecorded audio CDs, and combined CDs such as CD Extra.
- All Audio CD-R and Audio CD-RW.

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

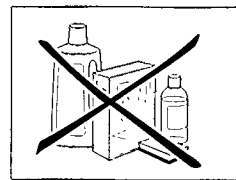
## Maintenance

For recording it is very important to use dust and scratch free discs.

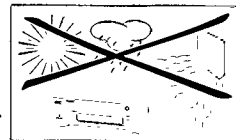
To clean a CD, wipe it in a straight line from the center toward the edge using a soft, lint-free cloth. A cleaning agent may damage the disc! Write only on the printed side of a CD-R or CD-RW, and only with a soft felt-tipped pen.



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 repair. Other cleaning methods may destroy the lens. Always keep the tray closed to avoid dust on the lens.

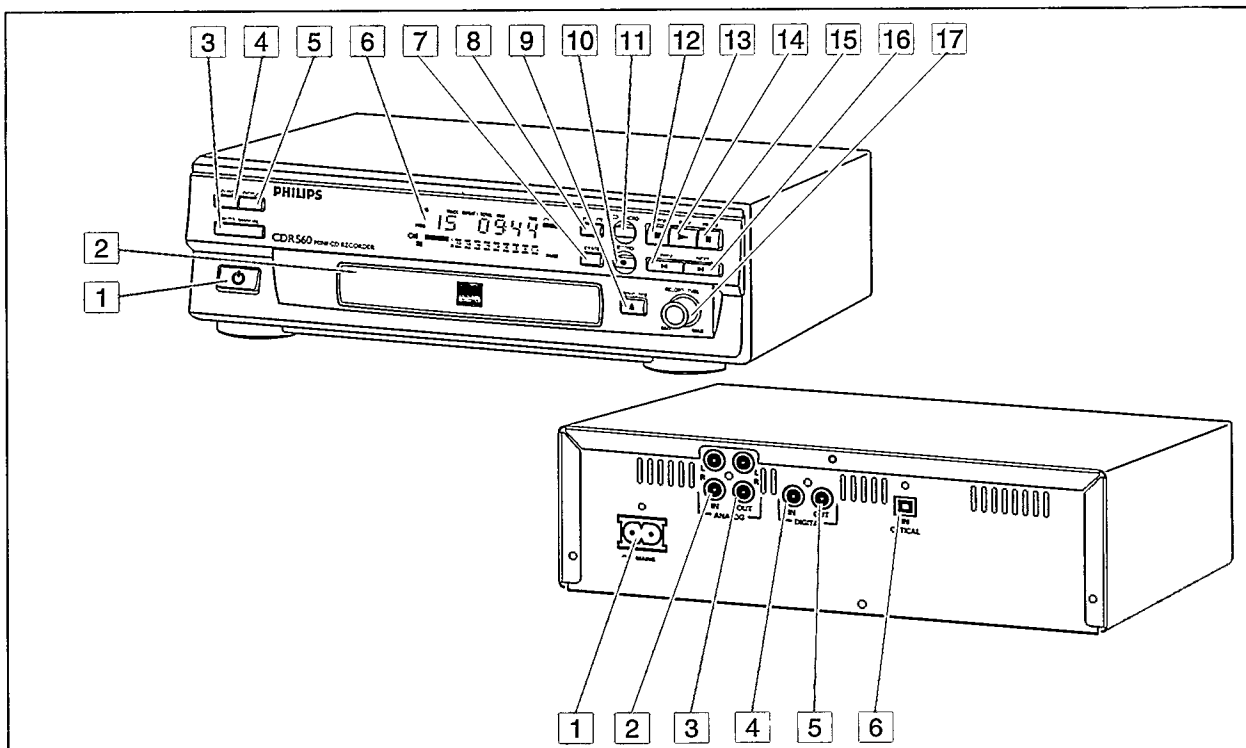
The lenses may cloud over when the CD recorder is suddenly moved from cold to warm surroundings. Playing a CD is not possible then. Leave the CD recorder in a warm environment until the moisture evaporates.

## Accessories

- 2 Analog audio cables (with red and white plugs)
- 1 Digital coaxial cable (with black plugs)
- Power cord
- 2 Batteries
- Remote control
- Guarantee
- Optical cable (CDR538 only)

# CONTROLS AND CONNECTIONS

English



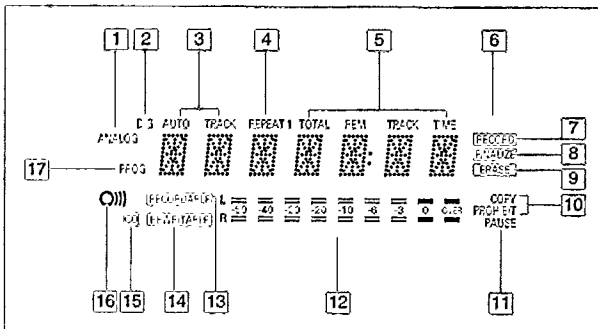
## Controls on the front

- 1 **ON/OFF** ..... turns the CD recorder ON and OFF
- 2 **Disc tray**
- 3 **AUTO/MANUAL** .. selects track increase method
- 4 **SOURCE** ..... selects digital or analog input
- 5 **DISPLAY** ..... selects display information
- 6 **DISPLAY** (information screen)
- 7 **ERASE** ..... erases recording
- 8 **FINALIZE** ..... finalizes recording
- 9 **OPEN/CLOSE** .... opens/closes disc tray
- 10 **RECORD** ..... records
- 11 **CD-SYNC** .....synchronized recording (automatic start when recording)
- 12 **STOP ■** ..... stops
- 13 **◀◀** ..... previous track/searches back
- 14 **PLAY ▶** ..... starts play or record
- 15 **PAUSE II** .....interrupts play
- 16 **▶▶** ..... next track/searches forward
- 17 **REC LEVEL** ..... adjusts the recording level (analog)

## Connections at the back

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

## DISPLAY explanation



- 1 **ANALOG** ..... analog input is selected
- 2 **DIG** ..... lights when digital input is selected and flashes when digital input is incorrect.
- 3 **AUTO TRACK** ..... automatically increasing track numbers
- 4 **REPEAT (1)** ..... repeat function activated during play
- 5 Track number and time.
- 6 **CD-SYNC** ..... synchronized recording is active.
- 7 **RECORD** ..... lights during recording and flashes in record standby
- 8 **FINALIZE** ..... lights during finalizing and flashes in finalize standby
- 9 **ERASE** ..... lights during erase recording and flashes in erase standby
- 10 **COPY PROHIBIT**... Lights when trying to record digital protected audio.
- 11 **PAUSE** ..... pause function is active
- 12 Record/play level bar (analog)
- 13 **RECORDABLE** ..... Unfinalized CD-R disc inserted
- 14 **REWRITABLE** ..... CD-RW disc inserted
- 15 **CD** ..... CD inserted (a pre-recorded CD or finalized CD-R or CD-RW disc)
- 16 ..... remote control active
- 17 **PROG** ..... programmed play

## DISPLAY messages

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

- READING** .....reading disc information
- OPC** .....during OPC procedure
- OPEN** .....during tray opening
- CLOSE** .....during tray closing
- NO DISC** .....no disc inserted, or disc unreadable
- UPDATE** .....updating disc contents
- ERROR** .....write error during recording
- RECOVER** ..during recovery procedure
- WAIT** .....recording stop (4 seconds) in progress
- SYNC** .....during synchronized recording standby
- TRACK** .....during erase-track standby
- DISC** .....during erase-disc standby
- SERVICE** ..selftest failed
- OPCFAIL** ....laser power calibration failed. Further recording not possible
- FULL** .....program full
- CD FULL** ....no more recording possible
- EMPTY** .....no recordings on disc, finalizing not possible
- NO AUDIO** (flashing) no audio disc loaded or failure to read data
- FINAL** .....laser power calibration performed 96 times, finalize disc
- COAXIAL** ..digital coaxial input selected
- OPTICAL** ..digital optical input selected
- SHUFFLE** ..during shuffle
- RC-DISC** ..recovered disc. Finalizing not possible
- TOC** .....flashes during unfinalize disc standby, lights during unfinalize disc
- INPUT** .....during input selection (CD-SYNC)
- ANALOG** .....analog input selected

# INSTALLATION

## Connections general

For recording the CD recorder has the following inputs:

- Digital optical input
- Digital coaxial input
- Analog input

For play back the CD recorder has the following outputs:

- Digital coaxial output
- Analog output

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.

Recordings made from a digital source (CD player) via the digital optical or digital coaxial connection will 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-Convertor of your CD recorder will ensure very good audio performance when recordings are made from the analog input.

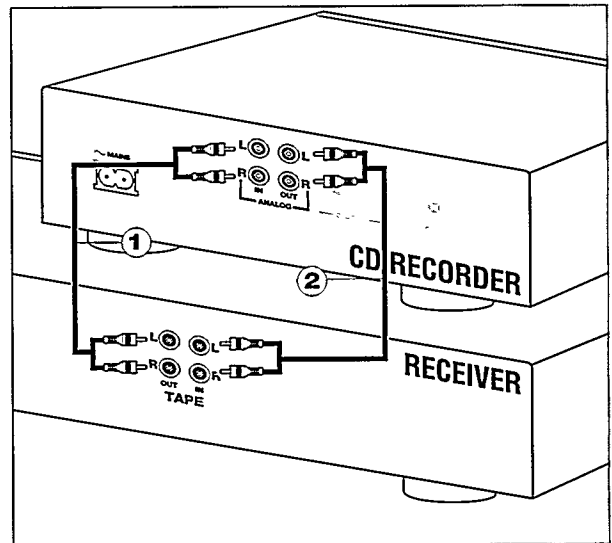
Playback via the digital coaxial output of the CD recorder gives the best audio performance.

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

We advise you always to establish both digital and analog connections. In this way you can always make analog recordings when digital recording is not possible.

Below we describe the most common ways of connecting the CD recorder. If you still have difficulties with the connections you always can contact Philips Consumer Service desk in your country.

## Analog connections



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

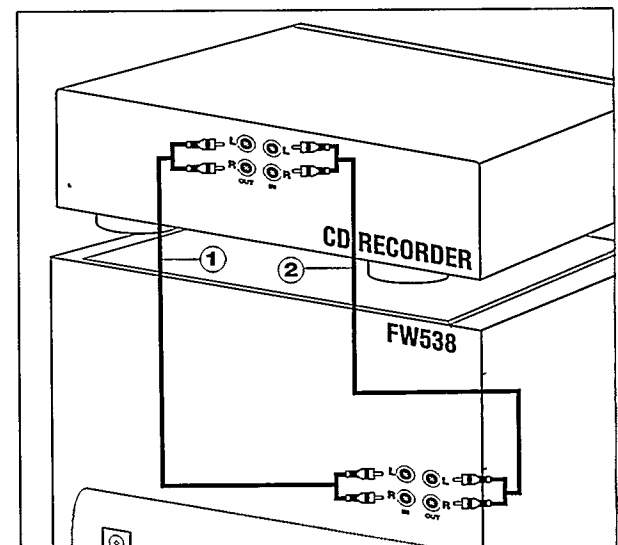
- 1 For recording, connect cable ① between the ANALOG IN-sockets on the CD recorder and the LINE- or TAPE OUT-sockets of an amplifier (FW538).

*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, CD-R or AUX (FW538).

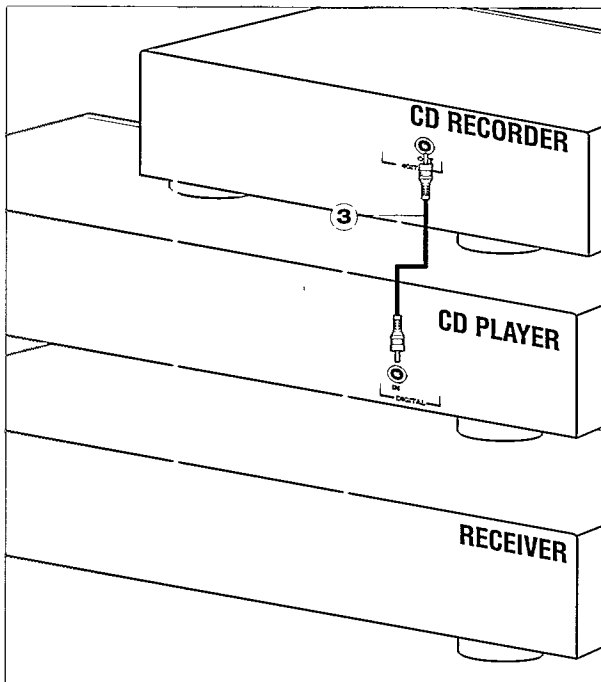
*Note:* Never use the PHONO input.

For use with FW538:





## Digital coaxial connections

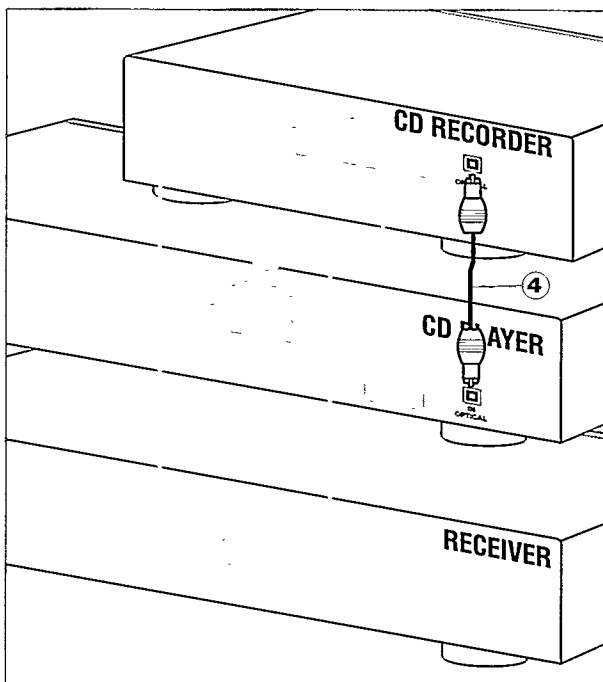


Use the supplied cable with the black plugs.

- 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

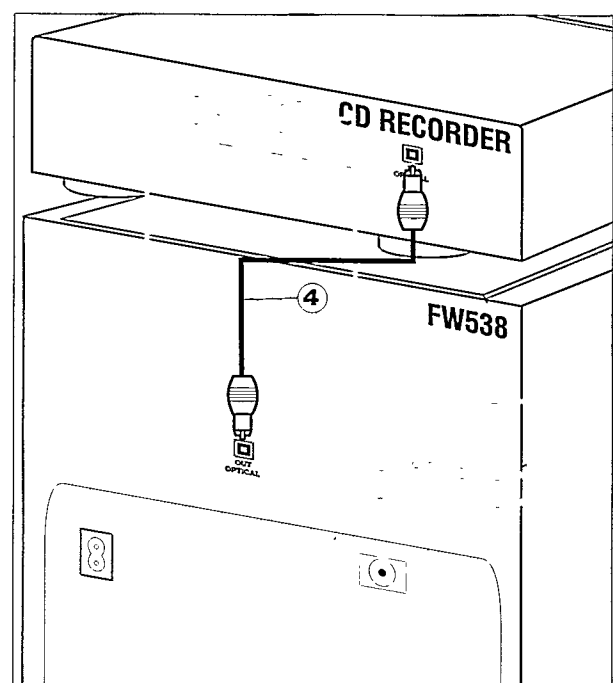


- 1 Remove the dust caps from the digital optical connections. (We recommend you to save the caps).

- 2 For recording, connect a fibre-optic cable ④ between the digital optical input of the CD recorder and the digital-optical output of a CD player.(FW538)

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

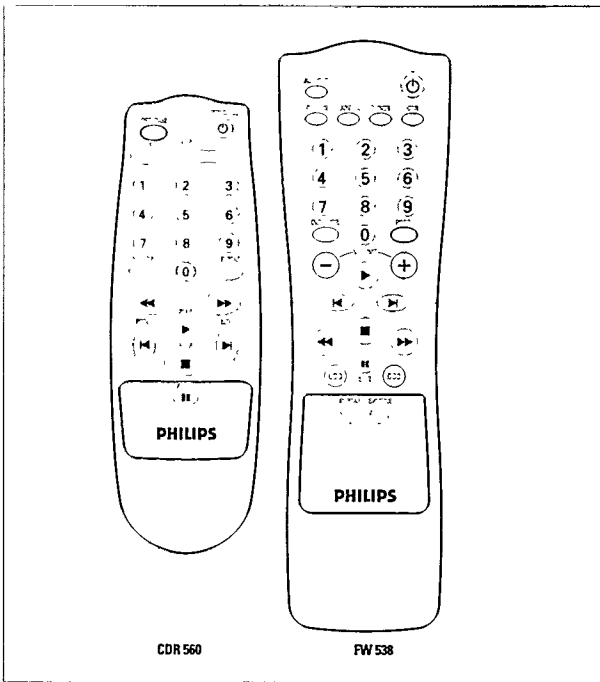
For use with FW538:



# REMOTE CONTROL & INSERTING DISCS

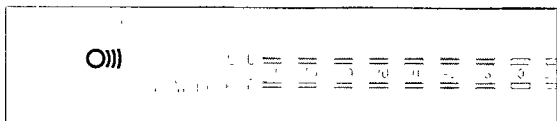
English

## Remote control commands



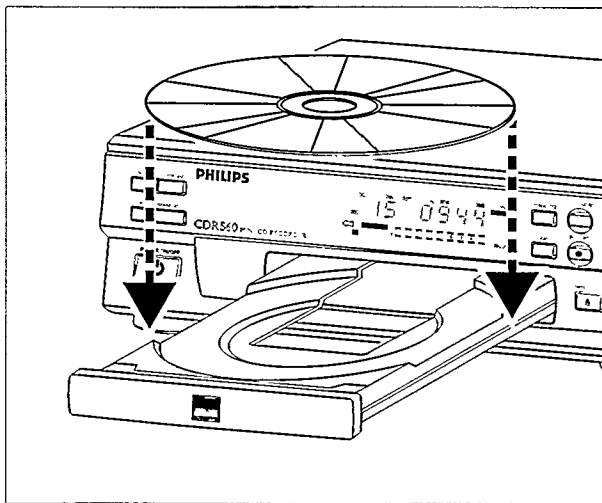
- PROGRAM** ..... programs track numbers
- DISPLAY** ..... selects display information
- Number keys 0 - 9** ... Sets a track by number
- SHUFFLE** ..... plays CD(RW) or program in random order
- ◀◀** ..... Searches backward
- PREVIOUS** ◀ ..... selects the beginning of a previous track
- STOP** ■ ..... stops CD(RW) and clears a program
- PAUSE** ■ ..... interrupts CD(RW) play
- NEXT** ▶ ..... selects the beginning of subsequent track
- PLAY** ▶ ..... starts CD(RW) play
- ▶▶** ..... Searches forward
- REPEAT** ..... repeat play
- CD** ..... CDR 765 only
- CD-R** ..... CDR 765 only
- OPEN/CLOSE** ..... Opens or closes the disc tray

While you press a button on the remote control, the indicator on the display lights up.



*Note:* Unless otherwise stated, all controls are on the front of the CD recorder. When provided on the remote control, you can also use the corresponding buttons.

## Inserting discs



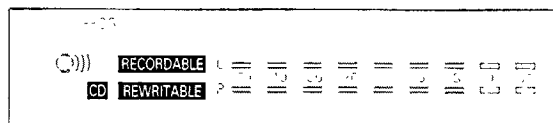
- 1 Press OPEN/CLOSE (**9**) to open the disc tray.
- 2 Insert a CD, CD-R or, CD-RW in the appropriate recess in the tray, label side up.

### IMPORTANT:

*For recording it is important that the blank disc is completely free from dust particles or scratches. (see Disc Maintenance, p.5).*

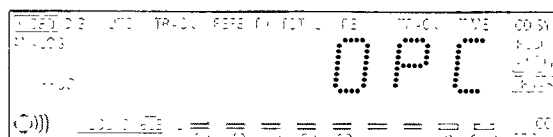
- 3 Gently push the front of the tray or press OPEN/CLOSE to close the tray (see also Playing a CD).

→ The display will show the type of disc you inserted.



- If a CD-R is finalized it will show **CD** on the display.
- If a CD-RW is finalized it remains a CD-ReWritable and will show **CD REWRITABLE** on your display.

*If you insert a blank or partly-recorded CD-R or CD-RW, the CD recorder will calibrate the disc for optimum recording. During this process the display will first show **OPC** and then the number of audio tracks. Calibration can take up to 25 seconds.*



*Note:* Only Audio CDs will be accepted. If a non-audio disc is inserted, the display shows **NO AUDIO**.

# RECORDING

## Remarks about recording

You will soon discover how easy it is to make your own CDs. Nevertheless, it is advisable to use a CD-RW disc for your first try. We will describe the 3 ways to make recordings:

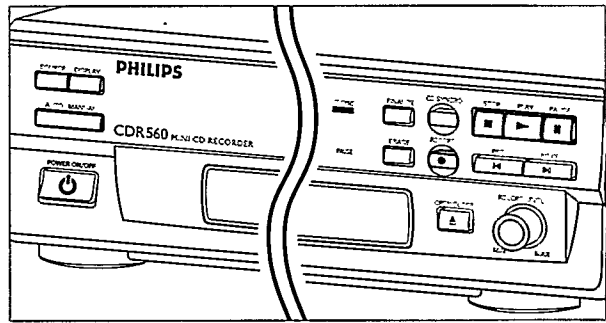
- Digital unsynchronized
  - Digital synchronized
  - Analog
- The recording procedure is the same for CD-Rs or CD-RWs.
  - If the disc is a CD-RW and is already finalized you must unfinalize it first (p.15).
  - If the disc already contains recordings, the CD recorder will automatically search for the 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.
  - If the display indicates **COPY PROHIBIT**, no digital recording can be made of the source material. Recording will not start or stops after 4 seconds.
  - 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 from the original is unlimited.
  - A maximum of 99 tracks can be recorded on a disc. Minimum allowable track length is 4 seconds.
  - Digital recordings can be made from CDs (or other sources with an output Sample Frequency of 44.1 kHz +/- 100 ppm) via the digital input.

### Important:

**If you want to play the recorded CD-R disc on a regular CD player, it must first be finalized. See finalizing discs (p.15).**

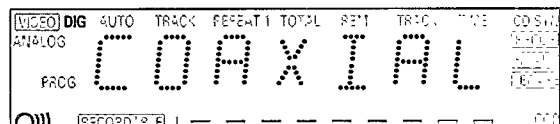
**Finalized CD-RW discs play only on CD-RW compatible CD players.**

## Digital recording - unsynchronized

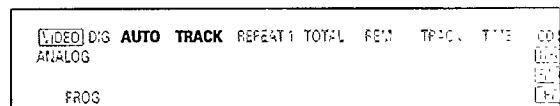


### Preparing for digital recording

- 1 Make sure the disc is absolutely free of scratches and dust particles.
- 2 Press SOURCE repeatedly until (depending on the digital connection used):
  - **DIG COAXIAL** or **DIG OPTICAL** appears on the display.



- 3 Press AUTO/MANUAL to switch between auto and manual track numbering.
  - If AUTO is selected (preferred), **AUTO TRACK** appears on the display.



- **AUTO:** The track increments are automatically taken over from the digital source material.
- **MANUAL:** Track numbers can be incremented manually by pressing ►►. (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.*

## Start digital recording

- 1 With the recorder stopped, press RECORD to enter the Record standby mode.  
→ RECORD flashes.

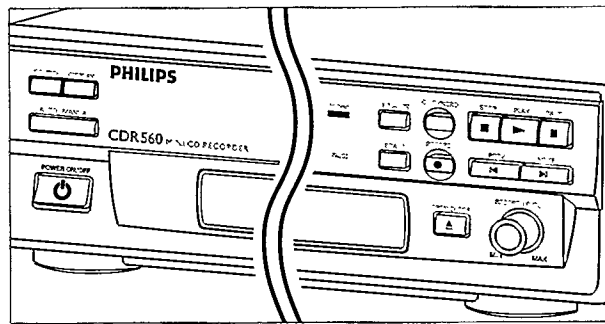


- If DIG also flashes, the digital connection is incorrect.
- 2 To start recording, press PLAY and immediately start the source (from stop-mode).  
→ RECORD lights continuously. The track number and recording time used appear on the display.
- To record a 3-second silence at the start of a track, press PAUSE.
  - To check the (remaining) recording time, press DISPLAY. (This can also be done during the recording)
- 3 To stop recording, press STOP on the CD recorder.  
→ RECORD goes out.
- To interrupt recording, press PAUSE.  
→ RECORD starts to flash. Resume at step 2.

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

*Note: With AUTO TRACK on, the recorder will stop automatically. Recordings from DAT or DCC will stop after 20 seconds silence. With AUTO TRACK off, the AUTO STOP mode is disabled.*

## Synchronized digital recording - CD-SYNC



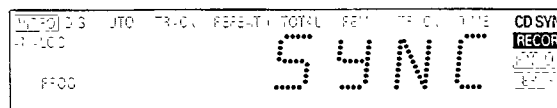
### Preparing for synchronized digital recording

The CD-SYNC feature enables you to make fast and easy digital recording of a CD. Track increments are automatically detected from the digital source material. Track increments cannot be added manually.

- 1 Make sure the disc is absolutely free of scratches and dust particles.
- 2 Press SOURCE repeatedly until (depending on the connection used):  
→ DIG COAXIAL or DIG OPTICAL appears on the display.

### Start synchronized digital recording

- 1 With the CD recorder stopped, press CD-SYNC.  
→ On the display, CD-SYNC & SYNC appears. After a time, RECORD starts to flash.



- If DIG also flashes, the digital connection is incorrect.
- 2 To start recording, press PLAY on the digital source.  
→ The CD recorder automatically starts to record and RECORD lights continuously. The track number and recording time used appear on the display
- If, however, you start the source during a track, CD-SYNC recording starts at the beginning of the next track.
  - To check the (remaining) recording time, press DISPLAY. (This can also be done during recording)
- 3 To stop recording, press STOP on the CD recorder.  
→ CD-SYNC and RECORD go out.
- To interrupt recording, press PAUSE.  
→ RECORD starts to flash. To resume, press PLAY on the CD recorder.

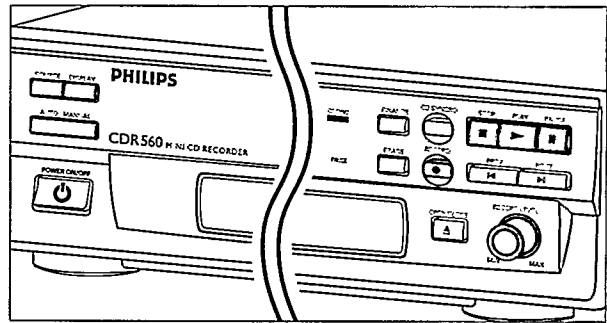
After recording the display will show *LIFETIME* for several seconds.

# RECORDING

**Note:**

- The CD recorder will not start until it recognizes a digital signal. Although the reaction time is less than 200 milliseconds, the very beginning of the music may sometimes not be recorded. If this happens, you can start the recording manually (see digital recording - unsynchronized).
- Recordings from DAT or DCC will only stop after 20 seconds silence.

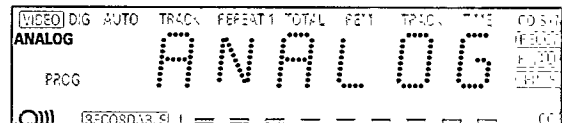
## Analog recording



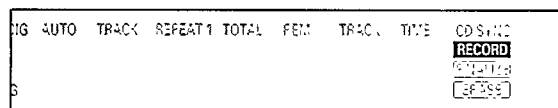
Only make analog recordings if digital recording is not possible.

### Preparing for analog recording

- 1 Make sure the disc is absolutely free of scratches and dust particles.
- 2 Press SOURCE repeatedly until:  
→ ANALOG appears on the display.



- 3 Press AUTO/MANUAL to switch between auto and manual track numbering.  
→ If Auto is selected (preferred), AUTO TRACK appears on the display.
  - AUTO: The track number is automatically incremented after a silence on the original of minimum 3 seconds.
  - MANUAL: Track numbers can be incremented manually by pressing ►►. (minimum track length is 4 sec). (This can also be done in AUTO mode)
  - Track numbers cannot be changed after recording.
- 4 With the recorder stopped, press RECORD to enter Record standby mode.  
→ RECORD flashes



- 5 Play the source first to set the optimal recording level on the CD recorder.
- 6 Turn the REC LEVEL control so that, on the Record/Play Level bar, all the blue segments are alight, but the red segments do not light continuously during the loudest passages.
- 7 Stop the source.

## Start analog recording

- 1 To start recording, press PLAY on the CD recorder and immediately start the source.
  - RECORD lights continuously. The track number and recording time used appear on the display.
- To record a 3-second silence at the start of a track, press PAUSE.
- To check the (remaining) recording time, press DISPLAY. (This can also be done during the recording)
- 2 To stop recording, press STOP on the CD recorder.
  - RECORD goes out.
- To interrupt recording, press PAUSE.
  - RECORD starts to flash. Resume at step 1.

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

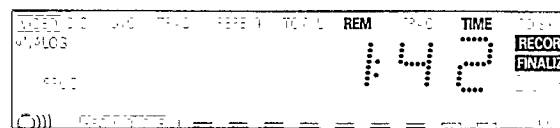
*Note: With AUTO TRACK on, the recorder will stop automatically after 20 seconds silence. With AUTO TRACK off, the AUTO STOP mode is disabled.*

## Finalizing CD-R & CD-RW discs

Finalizing is a simple procedure that is necessary in order to play the discs on a regular (non-recording) CD player.

*Note: Finalizing prevents any further recording on a CD-R. A finalized CD-RW must be unfinalized to allow further recording or erasure of tracks.*

- 1 Make sure the disc is absolutely free of scratches and dust particles.
- 2 With the recorder stopped press FINALIZE and then within 3 seconds press RECORD.



- The approximate finalisation time appears in the display. Record & finalize lights up. The display counts down through the finalisation. On completion, the total number of tracks and the total time recorded appears on the display. For CD-R **CD RECORDABLE** becomes **CD** on display. For CD-RW no change on display.

Finalizing will last at least 2 minutes.

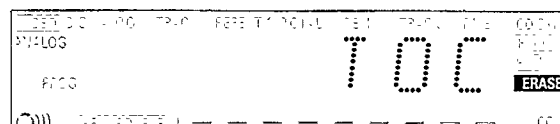
*Note: During finalisation, the CD recorder accepts no operating commands.*

## Unfinalizing CD-RW discs

For CD-RW 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.

To unfinalize:

- 1 Press ERASE twice.
  - On the display, **TOC** and **ERASE** flash.



- 2 Press RECORD within 3 seconds.
  - **TOC** and **ERASE** light continuously during erasure.

*Note: This will take approximately 1 minute.*

# ERASING & PLAYING

## Erasing CD-RW discs

For CD-RW discs only.

You can erase:

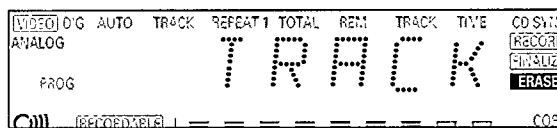
- track by track from the end.
- the entire disc.

### To erase the last track :

1 Make sure the disc is not finalized (Showing **DPC** on display during start up). Otherwise unfinalize first (p.15)

2 Press ERASE.

→ On the display, **TRACK** and **ERASE** flash.



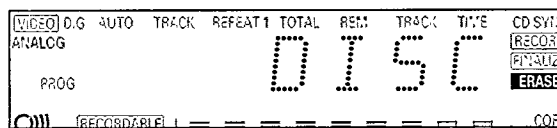
3 Press RECORD within 3 seconds.

→ **TRACK** and **ERASE** light continuously during erasure.

### To erase the entire disc:

1 Press ERASE once (for finalized CD-RW) and twice (for unfinalized CD-RW)

→ On the display, **DISC** and **ERASE** flash.

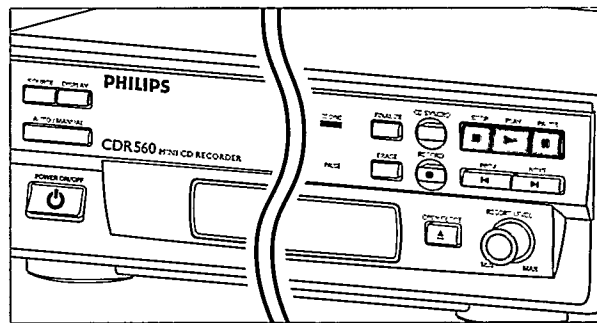


2 Press RECORD within 3 seconds.

→ **DISC** and **ERASE** light continuously during erasure.

Erasure of a complete disc may take up to 1.5 minutes.

## Playing a CD



1 Press PLAY to start CD play.

→ The track number and track time appear on the display, together with the record/play level indicator.

2 Press DISPLAY once, twice, or three times to see:

→ Remaining track time; Total remaining time; Track time with the record/play level bar off.

3 To interrupt play temporarily, press PAUSE.

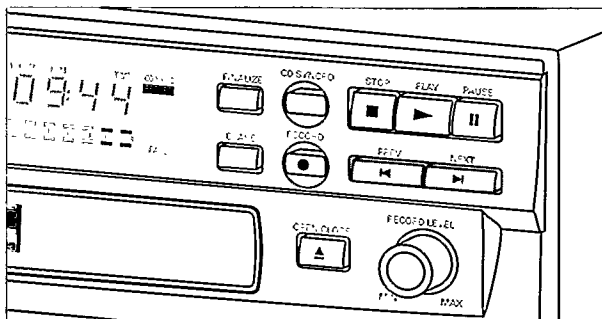
→ **PAUSE** lights on the display

4 To continue play, press PAUSE again or press PLAY.

5 To stop play, press STOP.

→ The number of tracks and the total playing time appear on the display.

### Selecting a track or searching



#### Selecting a track during play

- Briefly press **◀** or **▶** one or more times.  
→ Play skips to the beginning of the present, previous or subsequent tracks.
- or
- 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.  
→ Play skips to the beginning of the selected track.

#### Selecting a track when CD play is stopped

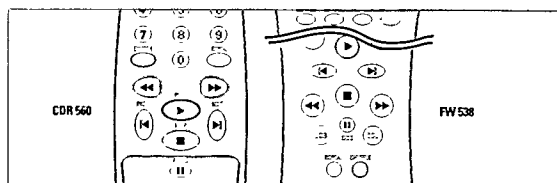
- Briefly press **◀** or **▶** one or more times.
  - Press **PLAY**.  
→ Play starts at the selected track.
- or
- Key in the required track number using the numerical keys on the remote control. For 2-digit track numbers, press the keys in rapid succession.

#### Searching during CD play

- Hold down **◀** or **▶** (or **◀◀** or **▶▶** on the remote control).  
→ The player first searches backwards or forwards at 10 times normal speed with sound at low volume, then goes to fast reverse or fast forward with sound muted.
- Release the button at the desired passage.  
→ Play starts at the desired passage.

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

### Shuffle play



- Press **SHUFFLE** (or **PLAY**) on the remote control before or during CD play to start shuffle play.  
→ The tracks on the CD (or program if set) play in random order. **SHUFFLE** appears on the display between tracks.
- Press **SHUFFLE** again to return to normal CD play.

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

### Repeat CD, track or program

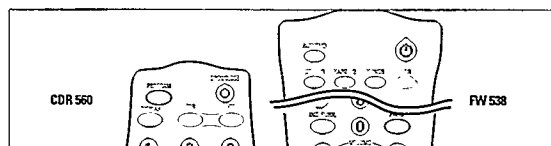
- Press **REPEAT** on the remote control one or more times during CD play.  
→ When **REPEAT 1** appears on the display, the current track plays repeatedly. When **REPEAT** appears on the display, the disc or programme plays repeatedly.
- To return to normal play, press **REPEAT** one or more times until:  
→ the repeat message disappears from the display.

*Note:*

- You can use shuffle in combination with repeat CD or programme play.
- Repeat is also cleared if you open the disc tray.

### Programming

You can program up to 30 tracks to play in any desired sequence. Tracks can be programmed more than once, but each time counts as a track.



- On the remote control press **PROGRAM** to start programming.  
→ **PROG** flashes on the display.
- Key in a track number with the number keys. For 2-digit numbers, press the keys in rapid succession.  
→ On the display, the track number appears briefly, followed by the total programmed tracks and total programme time.
- Repeat step 2 for all tracks to be programmed.
- Press **STOP** or **PROGRAM** to end programming.  
→ **PROG** lights continuously.

*Note:*

- To review the program, press [**◀** or **▶**] in stop mode.
- To add more tracks to the programme, repeat steps 1 to 4.
- If you try to store more than 30 tracks, **FULL** appears on the display

- Press **PLAY** to start programmed play.

#### Clearing a program

- Press **STOP** if necessary to stop programmed play.
- Press **STOP** again to clear the program.  
→ **PROG** disappears from the display.

*Note:* The program is also cleared if you open the disc tray.



# FIXING PROBLEMS

## Troubleshooting

If you think your CD recorder is defective, it is wise to check this list first and run the diagnostic program. Maybe you have forgotten a simple step.

### Warning!

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

### SYMPTOM: • SOLUTION:

- No power**
- ensure that the ON/OFF button is on
  - ensure that the mains 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 3 seconds silence in between the tracks (analog recording only)
- check if the source is a consumer source with the digital output according the IEC audio standard.

- No sound**
- check the audio connections
  - if using an amplifier, try using a different source

### Amplifier sound is distorted

- check that the CD recorder analog output is not connected to the amplifier Phono input.

### Play will not start

- ensure that the label of the CD is facing up
- clean the disc
- check that the disc is not defective by trying another disc

### Remote control does not work

- point the remote control directly at the CD recorder
- check the batteries and replace if necessary
- select right source first

### Will not record

- clean the disc.
- check if CD-RW is not finalized.
- check that the disc is recordable and replace if necessary
- the disc is not an AUDIO disc
- wrong input source chosen.

### Analog recording is distorted

- make sure the recording level is correct

### 20 second pause between recordings

- see synchronized digital recording (CD-SYNC) (p. 13)

### Player does not react

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

### SERVICE on display after switching on

- try switching off and on again

### RECOVER on display

- a power failure has occurred during recording, the CD recorder is attempting to repair the disc.
- if *RC-DISC* then appears on the display, the disc cannot be recorded further, and cannot be finalized. But can be played on a CD recorder.
- on a CD-RW disc, the track being recorded is lost, but further recording and finalization can still be done.
- if *OPC FAIL* appears, no further recording is possible.  
You can still use the disc as a CD on this recorder.

## Diagnostic program

If the malfunction continues, perform the Diagnostic Program:

**1** Switch the recorder off using ON/OFF.

**2** Simultaneously press PLAY and STOP and switch the recorder back on using ON/OFF.

→ The display will now indicate *EJST* and after a few minutes, the message will change to *ERROR* or *PASSED*

- If the *ERROR* message appears, your recorder is defective and needs to be repaired. Consult your supplier or call the Philips Consumer Line to find the nearest service centre. The number of the Consumer Line can be found in the guarantee booklet.

- If the *PASSED* message appears, you may be misinterpreting the user instructions or using an inappropriate disc, or there may be a mechanical defect or an incorrect connection. Carefully read the user instructions once again; and if necessary contact your supplier.

- If you cannot solve the problem, contact to the nearest service centre.

**3** Switch off the recorder using ON/OFF to exit from the Diagnostic Program.



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Printed in Belgium.

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