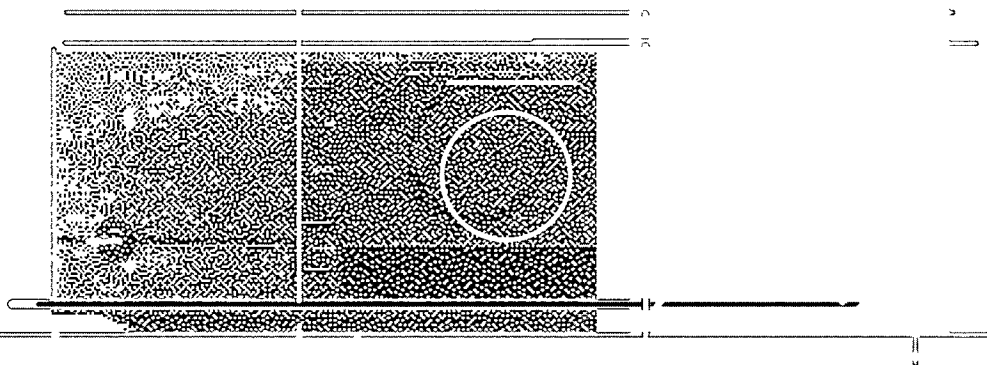
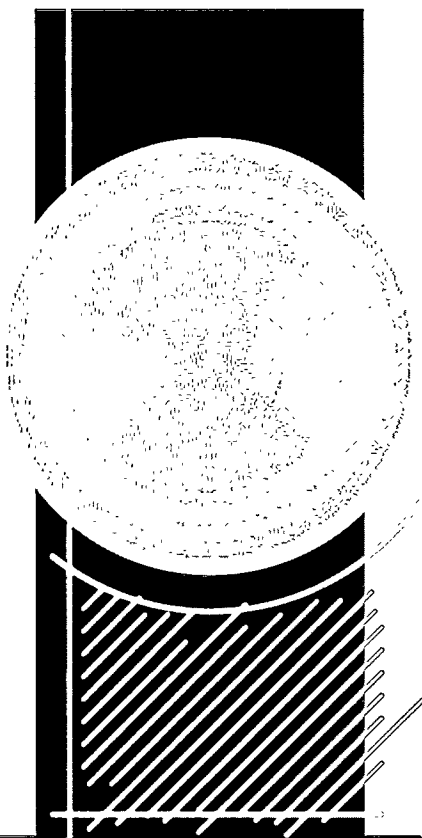
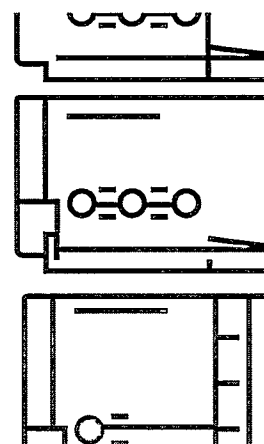


GRUNDIG

COMPACT DISC CHANGER CDC 477



DK Danmark

Typeskiltet er placeret på apparatets bagside.

Dette produkt overholder kravene til radio-interferens af Europæisk Fællesskab.

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

Bemærk: Netafbryderen er sekundært inkoblet og afbryder ikke strømmen fra nettet. Den indbyggede netdel er derfor tilsluttet til lysnettet så længe netstikket sidder i stikkontakten.

N Norge

Typeskilt findes på apparatets bakside.

Observer: Netbryteren er sekundært innkoblet. Den indbyggede netdelen er derfor ikke frakoblet nettet så længe apparatet er tilsluttet nettkontakten

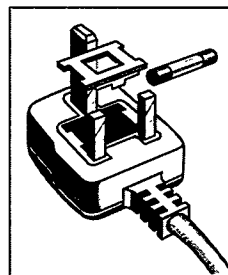
GB Important Information for Units sold in Great Britain

Fitting a mains plug

This apparatus is fitted with an approved moulded 13 Amp plug.

To change a fuse in this type of plug proceed as follows:

- Remove fuse cover and fuse.
- Fix new fuse which should be a BS1362 5A, A.S.T.A. or BSI approved type.
- Refit the fuse cover.



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

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

NOTE

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

How to connect a plug

The wires in the mains lead are coloured in accordance with the following code: BLUE – "NEUTRAL" ("N") and BROWN – "LIVE" ("L").

As these colours may not correspond with the colour markings identifying the terminals in your plug, proceed as follows:

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

Before replacing the plug cover, make certain that the cordgrip is clamped over the sheath of the lead – not simply over the two wires

Deutsch..... 4 D

English 16 GB

Français 28 F

Italiano 40 I

Portugûes 52 P

Español 64 E

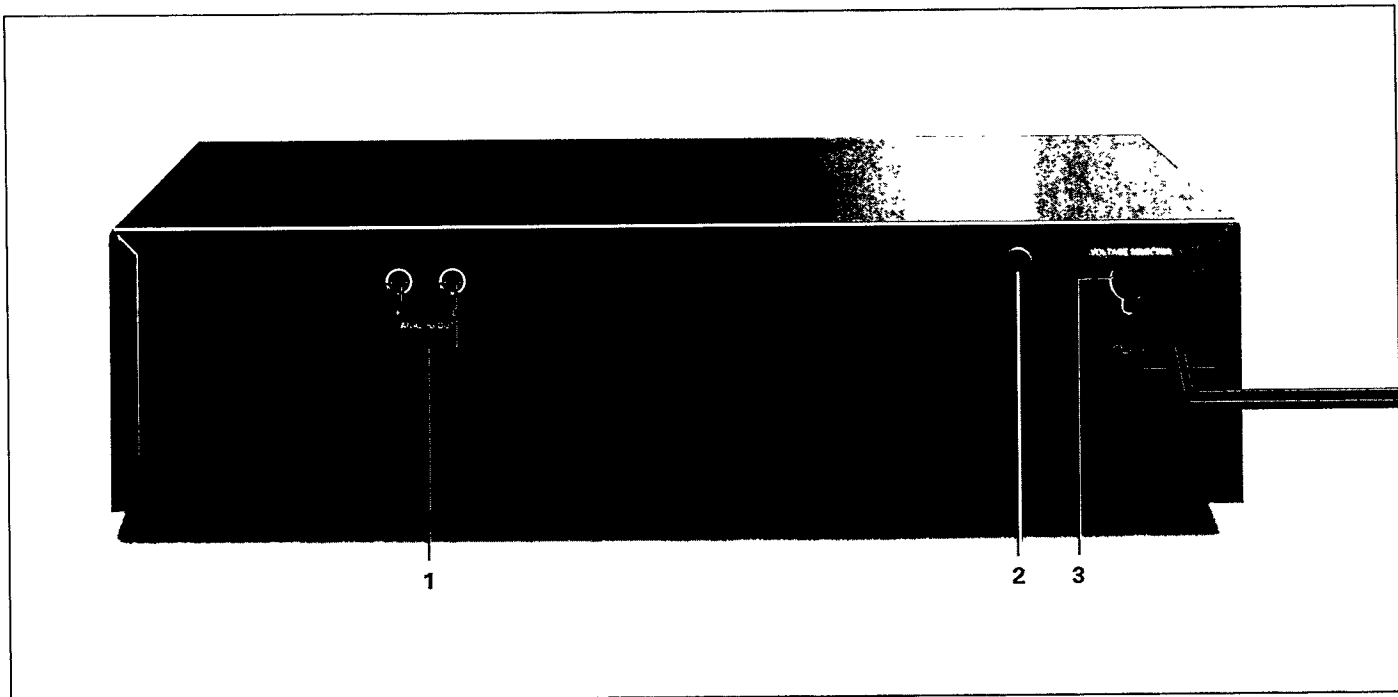
Nederlands 76 NL

Dansk 88 DK

Svenska 100 S

Suomi..... 112 FIN

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POWER SUPPLY SETTING

- Check that the type plate on the rear of your changer indicates the correct supply voltage.
- If your mains supply voltage is different, consult your dealer or our Service Organisation.

Certain versions of this changer are equipped with a voltage selector **3**, which enables you to set the player to the correct mains voltage yourself. When changing the voltage setting, it is also necessary to change the mains fuse **2** to one of the correct rating: T200 mA (slow blow fuse) for 110/127 V; T100 mA (slow blow fuse) for 220 V - 230 V/ 230 V - 240 V.

SITING THE COMPACT DISC CHANGER

Free standing

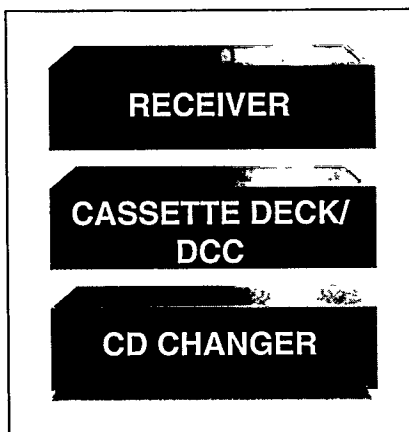
- Always position the changer horizontally on a flat, firm surface.
- Allow a free space of at least 3 cm above the changer so as not to interfere with the cooling of the changer.

In an audio rack

- The changer can be sited in any desired position.

Stacked

- Site the changer preferably at the bottom or at the top.
- Never position the changer directly on top of a high-power amplifier, as such an amplifier gives off a substantial amount of heat.



CONNECTIONS

1 ANALOG OUT

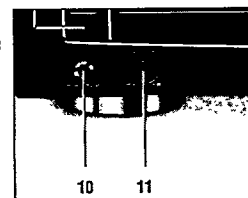
For the connecting cable to the amplifier.



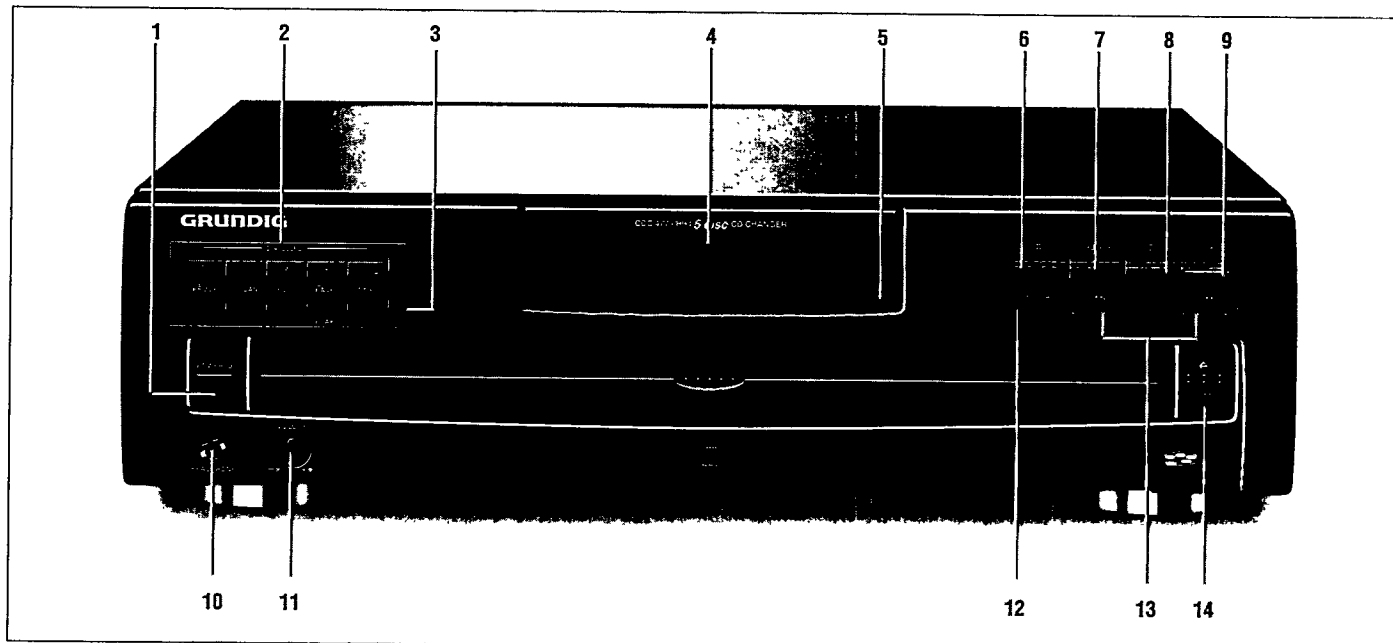
- Insert a red plug into the 'R' socket and the other plug into the 'L' socket.
 - Insert the two other plugs into the corresponding sockets of the CD or AUX input of your amplifier. You can also use the TUNER or TAPE IN connection, but never the PHONO input!
- 2 Mains fuse holder (not all versions)**
See 'POWER SUPPLY SETTING'.
 - 3 Voltage selector (not all versions)**
See 'POWER SUPPLY SETTING'.

CONNECTING HEADPHONES

- Connect headphones with a 6.3 mm jack plug to the PHONES socket **10**.
- The sound level is adjusted with the LEVEL control **11**.



GB



FRONT PANEL

1 POWER

Switching on and off.

2 DISC SELECT

- Selecting another CD during play.
- Selecting a CD to start play with.
- Selecting CDs when compiling a programme.

3a PROGRAM

Opening the memory when compiling a programme.

b SCAN

Automatically playing the beginning of each track.

c EDIT

Activating the EDIT function when preparing for a tape recording

d FADER

Fading in and out during play.

PEAK SEARCH

Searching the loudest passage (peak) on a CD or in a programme when preparing for a tape recording.

e TIME

Selecting the information you want to see on the display.

4 Display

Informs you about the functioning of the player.

5 I(nfra) R(ed) SENSOR

Receives the signals from the remote control.

6 PAUSE II

Interrupting play.

7 SHUFFLE

Playing in random order.

8 STOP ■

- Stopping play.
- Erasing a programme.

9 PLAY ►

- Starting play.
- Returning to the beginning of a track.

10 PHONES

Connecting headphones.

11 LEVEL

Adjusting the volume when listening with headphones.

12 REPEAT

Repeating play.

13 ◀▶▶▶

- Selecting another track during play.
- Selecting a track to start play with.
- Selecting tracks when compiling a programme.
- Fast search to a particular passage during play.
- Selecting the recording mode when making a tape recording.
- Selecting the recording time when making a tape recording.

14 OPEN/CLOSE

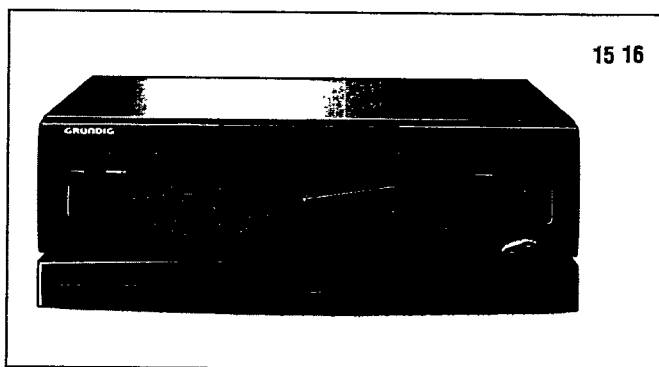
Opening and closing the CD compartment.

15 QUICK PLAY

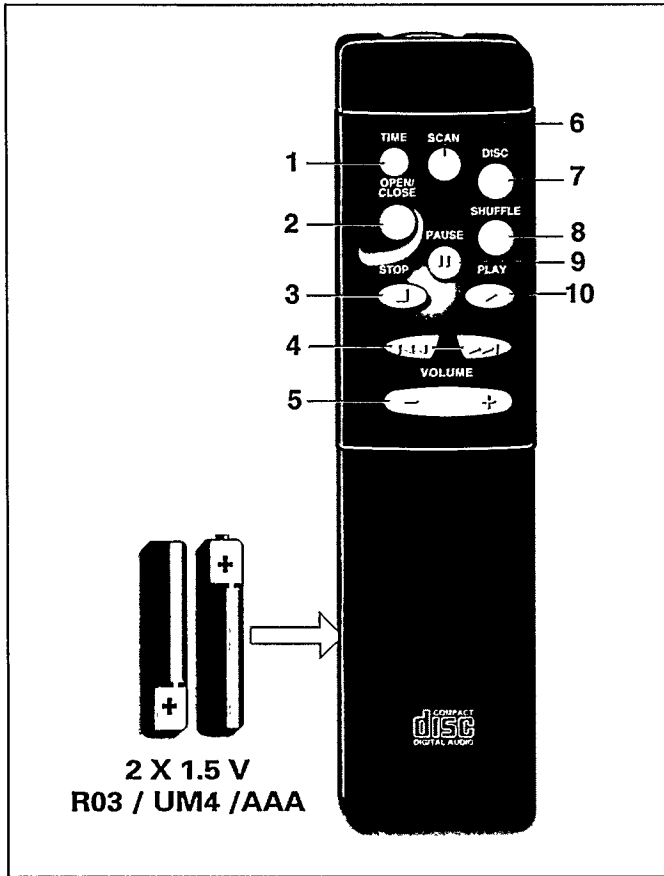
Immediate playing of a particular CD.

16 LOAD

Rotating the turntable in the CD compartment when inserting CDs.



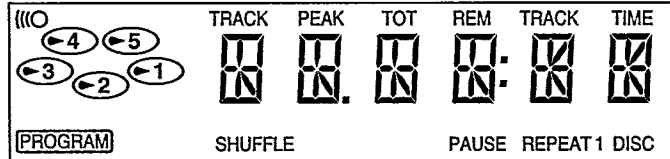
REMOTE CONTROL



- 1 TIME**
Selecting the information you want to see on the display.
- 2 OPEN/CLOSE**
Opening and closing the CD compartment.
- 3 STOP ■ - Stopping play.**
- 4 ◀ ▶**
- Selecting another track during play.
- Selecting a track to start play with.
- Selecting tracks when compiling a programme.
- Fast search to a particular passage during play.
- Selecting the recording mode when making a tape recording.
- Selecting the recording time when making a tape recording.
- 5 - VOLUME +**
Adjusting the sound level when the changer is connected via the ANALOG OUT output to an amplifier or HiFi system without its own remote control.
- 6 SCAN**
Automatically playing the beginning of each track.
- 7 DISC**
- Selecting another CD during play.
- Selecting a CD to start play with.
- Selecting CDs when compiling a programme.
- 8 SHUFFLE**
Playing in random order.
- 9 PAUSE II**
Interrupting play.
- 10 PLAY ▶**
Starting play.

The life of the batteries of the remote control is around one year. For replacement only use batteries of the type R03, UM4 or AAA.

DISPLAY



(((O) - Lights up when the changer receives a command from the remote control.

1 - 5 CD number indicator

- Lights up when you switch the changer on.
- Indicates the number of CDs in the CD compartment.
- Indicates what CD is being played (CD number flashes).

PROGRAM

- Flashes when a programme is being compiled.
- Lights up when a programme is being played.

TRACK - Indicates:

- what track is being played;
- the number of tracks on a CD or in a programme.

PEAK

- Flashes when the loudest passage (peak) on a CD or in a programme is being searched.
- Lights up when the loudest passage (peak) has been found.

TRACK TIME - Indicates the elapsed playing time of the track being played.

REM(aining) TRACK TIME - Indicates the remaining playing time of the track being played.

TOT(al) REM(aining) TIME - Indicates the remaining playing time of a CD.

TOT(al) TIME - Indicates the total playing time of a CD.

SHUFFLE - Lights up when the tracks are played in random order.

PAUSE - Lights up when play is interrupted.

REPEAT 1 - Lights up when you repeat a track.

REPEAT DISC - Lights up when you repeat a CD.

REPEAT - Lights up when you repeat all CDs or a programme from them.

Display messages:

READ - Lights up when a CD's contents list is being scanned.

no DISC - Lights up when there are no CDs in the CD compartment.

no AUDIO DISC - Lights up when insert a non audio CD (CD-ROM, CD-I or CDV).

WRONG TRACK - Lights up when you select a non-existent track number.

WRONG DISC - Lights up when you select a non-existent CD number.

SELECT DISC - Lights up when you try to activate a function for which you must first select a CD number.

INSERT DISC - Lights up when you give a play command while the CD compartment is empty.

GO TO PLAY - Lights up if you try to activate a function for which you must first start play.

GO TO STOP - Lights up if you try to activate a function for which you must first stop play.

EDIT - Lights up when the player is put into the EDIT mode.

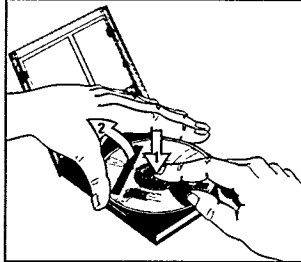
GB

GB

INSERTING THE CDs

NOTE! Use only audio CDs; no CD-ROM, CD-I or CDV.

- Press **POWER 1** to switch the changer on.
- The changer will now start CD detection to check how many CDs there are in the CD compartment. The turntable will rotate slowly until all positions (1 - 5) in the CD compartment have been checked.
- The position which is being checked is always shown on the display (**DISC** ✕).
- After CD detection the 1-5 CD number indicator will show the number of CDs in the CD compartment.
- Open the CD compartment by pressing **OPEN/CLOSE 14**.
- **OPEN** lights up.
- Insert the CDs, **printed side up**; use the **LOAD button 16** to rotate the turntable in the CD compartment.



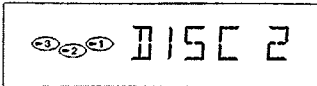
- Close the compartment by pressing **OPEN/CLOSE 14**.
- **CLOSE** lights up. The changer will start CD detection again.

NOTE!

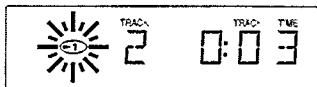
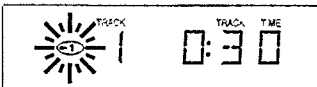
- CD detection may never be interrupted. If, during detection, you press any button, then the changer will stop detection and the display will give an incorrect indication of the number of CDs in the CD compartment.
- **Always** remove all CDs from the CD compartment if you want to transport the changer.

NORMAL PLAYBACK (PLAY ►)

- The display shows the number of the current CD.



- Press **PLAY ► 9** to start playback.
- **READY** lights up and play starts from the first available CD.
- The CD number indicator (1-5) always shows what CD is being played (► ✕ flashes).
- The track being played and its elapsed playing time are shown under **TRACK** and **TRACK TIME**. See 'CALLING UP INFORMATION ON THE DISPLAY' if you wish to see other information on the display.



- Play will stop after all CDs have been played.
- Press **POWER 1** to switch the changer off.

NOTE!

- You can also press **PLAY ► 9** immediately after inserting the CDs; the compartment then closes automatically and play starts from the first available CD.
- Use the **PREFERRED POSITION** in the CD compartment if you wish to insert only one CD and then start play by pressing the **QUICK PLAY button 15**. Play will then start immediately with the inserted CD.
- You can interrupt playback by pressing **PAUSE II 6**; **PAUSE** then lights up. Press **PLAY ►** or **PAUSE II** to restart.
- If you press **PLAY ►** during play, the current track will start again from the beginning.
- You can stop playback by pressing **STOP ■ 8**.
- If you press **OPEN/CLOSE 14** during play, the CD compartment will open while play continues. The three CDs outside the changer may now be changed without playback being interrupted.

SELECTING ANOTHER TRACK DURING PLAY (◀◀ ▶▶)

- Press ▶▶ **13** or ◀◀ **13** (less than 0.5 seconds) until the desired track number appears under TRACK.



- The music stops and a moment later the selected track begins to play.

WRONG TRACK Lights up when you select a non-existent track number.

SELECTING ANOTHER CD DURING PLAY (DISC SELECT)

- Key in the desired CD number.
- The music stops and a moment later the selected CD begins to play.

WRONG DISC lights up if you select a non-existent number.

You can also select the number by using the DISC button **7** on the remote control.

SEARCHING FOR A PASSAGE DURING PLAY (◀◀ ▶▶)

- Hold ◀◀ **13** down to search backwards to the beginning.
- Hold ▶▶ **13** down to search forwards to the end.

The searching speed is determined by how long a key is pressed:

- the first 2 seconds fairly slowly, with sound;
- then at the maximum speed, with no sound.

If you reach the end of the last track and release ▶▶, play will resume a few seconds before the end of the CD.

STARTING WITH A PARTICULAR CD (DISC SELECT)

- Key in the required CD number.
- If the CD compartment was open, it will now close.
- Play starts from the selected CD.

WRONG DISC lights up if you select a non-existent number.

You can also select the number by using the DISC button **7** on the remote control.

STARTING WITH A PARTICULAR TRACK (◀◀ ▶▶)

- First select the number of the required CD using DISC SELECT **2** or DISC **7** on the remote control.
- If the CD compartment was open, it will now close.
- Then select the (track) number by using ▶▶ or ◀◀ **13** (press less than 0.5 seconds).
- Press PLAY ▶ **9**.
- Play starts from the selected track.

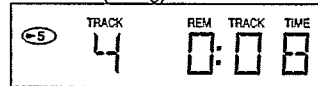
WRONG TRACK Lights up when you select a non-existent track number.

WRONG DISC lights up if you select a non-existent number.

SCANNING CDs (SCAN)

All CDs:

- Press SCAN **3b** before or during play.
- If the CD compartment was open, it will now close.
- SCAN lights up and the first 10 seconds of each track are played in turn (starting from the current track). 10 seconds are counted down each time under REM(aining) TRACK TIME.



- When the player reaches a track which you wish to hear in full, press SCAN again or PLAY ▶ **9**.

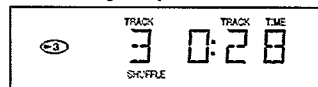
One CD:

- The CD-player should be in position STOP
- Select the number of the required CD using DISC SELECT **2** or DISC **7** (on the remote control).
- Press SCAN **3b**, within the time the CD number is flashing on the display.
- Now only the first 10 seconds of each track on the selected CD will be played in turn.

PLAYING IN RANDOM ORDER (SHUFFLE)

All CDs:

- Press SHUFFLE **7** before or during play.
- If the CD compartment was open, it will now close.
- SHUFFLE lights up and all the tracks are now played in a random order.



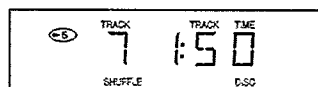
- If you press ▶▶ **13**, you will select any one of the following tracks.
- Press SHUFFLE again if you wish to return to normal play.

NOTE!

If, during play, you open the CD compartment to change CDs (see 'NORMAL PLAYBACK') then playback in random order will be cancelled. Playback will stop as soon as the last track of the current CD has been played (in normal order).

One CD:

- The CD-player should be in position STOP.
- Select the number of the required CD using DISC SELECT **2** or DISC **7** (on the remote control).
- Press SHUFFLE **7**, within the time the CD number is flashing on the display.
- DISC and SHUFFLE light up; the tracks of the selected CD will now be played in a random order.



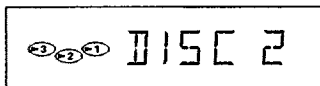
- If you press ▶▶ **13**, you will select any one of the following tracks.
- If you press REPEAT **12** twice, the tracks will be repeated in a different order each time, although the first track will always be the same.
- When all tracks of the selected CD have been played, playback stops.
- Press SHUFFLE again if you wish to return to normal play.

CALLING UP INFORMATION ON THE DISPLAY (TIME)

In STOP mode:

Text display

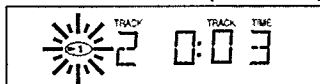
- After loading the CDs and closing the CD compartment, the display shows the number of the CD to be played (= default display in STOP mode).



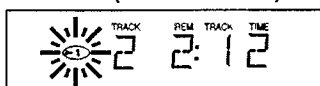
During play:

1. Time display

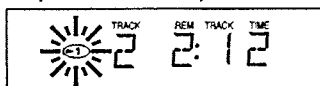
- When you start play (from STOP mode), the display shows the elapsed playing time of the current track (= default display in PLAY mode).



- Press TIME **3e** whenever you want to know the remaining playing time of the current track (REM TRACK TIME).



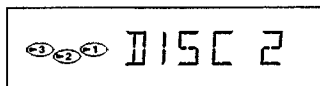
- Press TIME again if you wish to know the remaining playing time of the entire CD (TOTAL REM TIME).



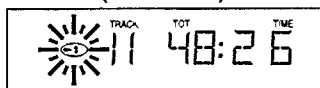
Note - TOTAL REM(aining) TIME indication is not available in SHUFFLE mode.

2. Text display

- If you press TIME again, you will switch to text display; the display shows the number of the current CD.



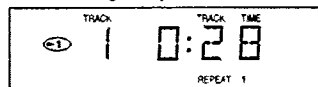
- If you wish to know the total playing time of the entire CD you must go back to STOP mode *first* and *then* press TIME.
- The display now shows the number of tracks and the total playing time of the current CD (TOTAL TIME).



REPEATING PLAY (REPEAT)

Repeating a track:

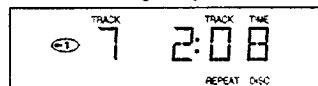
- Press REPEAT **12** before or during playback of the CD.
- REPEAT 1 lights up; the track will now be repeated continuously.



- Press REPEAT *three* times to stop the track being repeated.

Repeating a CD:

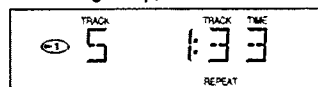
- Press REPEAT **12** *twice* before or during playback of the CD.
- REPEAT DISC lights up; the CD will now be repeated continuously.



- Press REPEAT *twice* to stop the CD being repeated.

Repeating all CDs:

- Press REPEAT **12** *three* times before or during playback.
- REPEAT lights up; all CDs will now be repeated continuously.



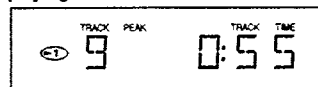
- Press REPEAT again to stop the CDs being repeated.

NOTES!

- Repeating a track is not possible in SHUFFLE mode or when a programme is being stored.
- When a programme has been stored (for one or more CDs), then only the programme will be repeated.

SEARCHING THE LOUDEST PASSAGE (PEAK SEARCH)

- In STOP mode, press PEAK SEARCH **3d**.
- SELECT *DISC* lights up and PEAK starts flashing.
- Select the number of the required CD using DISC SELECT **2** or DISC **7** (*on the remote control*).
- The CD will now be scanned for the loudest passage (the peak).
- The display shows the track being scanned and its elapsed playing time.



- When the loudest passage has been found it will be repeated continuously (from 2 seconds before the peak until 2 seconds after the peak) and PEAK lights up.
- You can now adjust your recording device.
- You can stop the scan by pressing STOP **8**: if you press PLAY **9**, the CD will be played from the beginning.

NOTE!

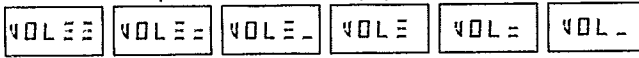
- When searching for the loudest passage in a programme (from one or more CDs) there is no need to enter the CD number(s).
- If you wish to record tracks from different CDs you have to repeat peak search for each CD.
- You can interrupt PEAK SEARCH by pressing STOP **8**.

ADJUSTING THE SOUND LEVEL

(- VOLUME +)

NOTE!

- Use the - VOLUME + keys (on the remote control) only if the changer is connected via the ANALOG OUT output to an amplifier or HiFi system without its own control.
- The setting chosen with - VOLUME + will be cancelled when the player is switched off.
- Hold - VOLUME 5 (on the remote control) pressed down.
- The output signal from the player will now decrease gradually.
- The successive steps are shown on the display.



- Release the key as soon as the required sound level is obtained.
- Hold VOLUME + 5 (on the remote control) pressed down.
- The output signal will now increase again gradually to the maximum level.



- Release the key as soon as the required sound level is obtained.

ACTIVATING THE FADE-IN AND FADE-OUT FUNCTION (FADER)

NOTE!

The FADER function can be used if the changer is connected to the amplifier or the system via the ANALOG OUT output.

- During play press FADER 3d.
- The sound level will now gradually decrease (FADE OUT), after which the changer will go into the PAUSE mode.



- Press FADER again.
- Play continues and the sound level will increase again to the originally set level (FADE IN).



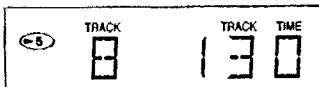
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PROGRAMMING

STORING A PROGRAMME (PROGRAM)

- By programming the changer you can play up to 30 tracks in any required sequence.
- FULL lights up if you exceed the maximum of 30 tracks.
- WRONG DISC lights up if you select a non-existent CD number.

- In STOP mode, press PROGRAM 3a to open the memory.
- SELECT DISC lights up and PROGRAM starts flashing.
- Select the number of the first required CD using DISC SELECT 2 or DISC 7 (on the remote control).
- Press ►►► 13 or ◀◀◀ 13 (less than 0.5 seconds) until the first track number you wish to programme appears under TRACK.
- Press PROGRAM 3a again.



- The track number has now been stored in the changers memory.
- Select the other track numbers required and store each track by pressing PROGRAM.
- The number of tracks and the playing time of your programme will be shown under TRACK and TOT(al) TIME.
- Press STOP ■ to quit the PROGRAM mode.

PLAYING THE PROGRAMME (PLAY ►)

- Press PLAY ► 9.
- Playback starts with the first number of the programme.

The PROGRAM 3a and EDIT 3c buttons cannot be used during programmed play. Search for a particular passage is only possible within the track being played.

ERASING A PROGRAMME (STOP ■ or OPEN/CLOSE)

In PLAY mode:

- Press OPEN/CLOSE 14 or STOP ■ 8 (twice).

In STOP mode:

- Press OPEN/CLOSE 14 or STOP ■ 8.
- The programme has now been erased.

The EDIT function has two recording modes in which you can store the recording time of the tape in the changer memory.

EDIT NORMAL – The changer will determine which tracks fit on each side of the tape and will stop after the last track. The tracks will be recorded in the order in which they appear on the CD(s).

EDIT OPTIMAL – The changer now calculates the combination of tracks that will optimize the use of available recording time.

NOTE!

- The EDIT function *cannot* be used for CDs containing more than 30 tracks.
- The – VOLUME + keys on the remote control may not be used during recording as they affect the strength of the signal from the changer.

BEFORE RECORDING

Preparation:

- A programme to be recorded, must be stored in advance. See 'PROGRAMMING'.
 - If required you can search the loudest passage and adjust your recording device. See 'SEARCHING THE LOUDEST PASSAGE (PEAK SEARCH)'. This can also be done after selecting the recording mode and the recording time. See below.
 - Press EDIT **3c** to activate the EDIT mode.
 - EDIT lights up and SELECT DISC appears on the display.
 - Select the number of the required CD using DISC SELECT **2** or DISC **7** (on the remote control).
- When recording a programme there is no need to enter the CD number(s).

Selecting the recording mode:

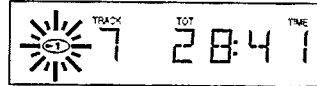
- The display shows EDIT (= EDIT NORMAL which is the default setting).
- With I◀◀ ▶▶I **13** you can now select OPT(imal), CANCEL or EDIT (NORMAL) again.
- The display shows OPT(imal), CANCEL, or EDIT again.
- Press EDIT **3d** to store the required recording mode (NORMAL or OPTimal). If you select CANCEL, the EDIT mode will be cancelled and the changer will go back to STOP mode.
- As soon as you have stored the recording mode the display shows CSD (default setting).

Selecting the recording time:

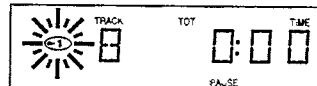
- As soon as you have stored the recording mode the display shows CSD (default setting).
- With I◀◀ ▶▶I **13** you can now select the required recording time: C 100, C 105, C 120, C 30, C 45, C 60, C 75 or C 90. In EDIT NORMAL mode the recording time must be at least equal to the playing time of the first track on the first CD or in the programme. In EDIT OPTimal mode the recording time must be at least equal to the playing time of the shortest track on the CD(s) or in the programme.
- NOT POSSIBLE lights up if you select a 'wrong' time.
- Press EDIT **3d** to store the required recording time.
- The CD changer will now go back to STOP mode
- You can now record the CD or the programme.

RECORDING

- Press PLAY **9**.
- Playback starts with the selected CD (or with the first track of the programme).
- The display shows the elapsed playing time of the current track.
- Press TIME **3e** to switch to other time display information.
- The number of tracks for side A and their playing time are shown on the display.



- After the last track that fits on side A of the tape, the CD changer will go into PAUSE mode.
- PAUSE lights up.
- Under TRACK you will see the number of the first track to be recorded on side B of the tape.



- Turn the tape over or select the tape travel direction for side B.
- Press PLAY **9**.
- The remaining tracks will now be played.
- After the last track play will stop; EDIT CANCELLED lights up.

NOTE!

- As soon as you press PLAY **9** the other changer functions will temporarily be switched off to prevent the recording being interfered with; EDIT ACTIVE lights up if you press one of the other buttons during recording.
- You can quit the EDIT mode by pressing STOP **8** or OPEN/CLOSE **14**; EDIT CANCELLED then lights up.
- EDIT NOT POSSIBLE lights up if you try to record a CD containing more than 30 tracks.
- Should the CD or the programme be longer than the total recording time of the tape, play will stop after the last track that fits onto side B of the tape.
- Should the first track of the first CD or the programme be longer than one side of the tape (= the entered recording time divided by two), then EDIT NOT POSSIBLE will light up. You will now have to enter another recording time.
- The EDIT function will be cancelled if the CD changer (or the system) is set to STAND BY mode (see 'ADDITIONAL INFORMATION').

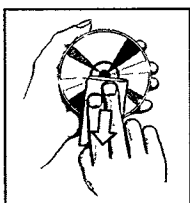
STAND BY

- When the changer is incorporated in a HiFi system, the changer can be set to STAND BY with the STAND BY button on the remote control of the system. The changer will go to STAND BY mode automatically if the whole system is set to STAND BY mode.
- If the CD compartment was open, it will now close.
- Any programme present will be erased.
- Press any of the following buttons to cancel the STAND BY mode: DISC SELECT 2, PLAY ► 9, STOP ■ 8, SCAN 3b, SHUFFLE 7, EDIT 3c, OPEN/CLOSE 14, ◀◀ 13 or PROGRAM 3a.

MAINTENANCE

The CDs

- Never write on the printed side of a CD.
- Do not attach any stickers to the CD.
- Keep the shiny surface of the disc clean. Use a soft lint-free cloth and always wipe the disc in a straight line from centre to edge.
- Never use cleaning agents for conventional records.
- Detergents or abrasive cleaning agents should not be used either.



The changer

- A chamois leather slightly moistened with water is sufficient for cleaning the changer.
- Do not use cleaning agents containing alcohol, spirits, ammonia or abrasives.

WARNING

**CLASS 1
LASER PRODUCT**

This label is attached to the back of your unit.

CLASS 1 LASER PRODUCT means that the laser's construction makes it inherently safe so that the legally prescribed maximum permissible radiation values can never be exceeded.

CAUTION: Using any equipment or devices other than those described and specified in these operating instructions, or tampering with the unit in any way, can result in dangerous exposure to radiation.

USING HEADPHONES

Caution...

Do not play your headphones at a high volume. Operation at high volume can endanger yourself and others in traffic. You should therefore always adjust the volume so that you can still notice ambient noises (e.g. horns, rescue vehicles, police cars, etc.)

Note on Environmental Protection

Do not throw exhausted batteries in the household refuse. Hand over the old batteries to your dealer or public collecting points when buying new ones.

TECHNICAL DATA

Typical Audio Performance

Frequency range:	2 Hz - 20 kHz
Amplitude linearity:	0.3 dB (20 Hz - 20 kHz)
Phase linearity:	4° dB (20 Hz - 20 kHz)
Dynamic range:	>90 dB (1 kHz)
Signal-to-noise ratio:	>90 dB (1 kHz)
Channel separation:	>90 dB (1 kHz)
Total harmonic distortion:	0.003% (1 kHz)
Audio output level:	2 V _{rms}
Impedance PHONES socket:	30-600 ohms

Power supply

Mains voltage and frequency:
see the type plate on the rear of the changer

Power consumption:	<10 W
Safety requirements:	IEC 65

Cabinet

Material/finish:	metal and polystyrene with decorative trim
Dimensions (w x h x d):	435 x 106 x 380 mm
Weight:	7 kg approx.

Subject to modification

This Compact Disc changer complies with radio interference requirements as laid down in EC regulations.

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Troubleshooting

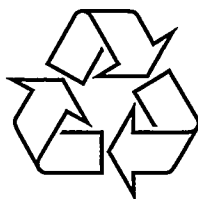
If a fault occurs, run through the points listed below before taking your changer for repair.

If the fault remains, try to clear it by **switching the changer off and on again**. If this also fails to help, consult your dealer.

Under no circumstances should you repair the changer yourself as this will invalidate the guarantee!

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SYMPTOM	POSSIBLE CAUSE	REMEDY
– Playback does not start or interruption of playback.	<ul style="list-style-type: none"> – The current CD has been loaded upside down. – No CDs inserted. – The current CD is badly scratched or dirty. – Moisture condensation on the lens. 	<ul style="list-style-type: none"> • Reload the CD, label side up. • Insert the CDs, label side up. • Clean the CD with a soft, lint-free cloth. • Leave the CD changer in a warm environment until the moisture evaporates.
– Sound skips (at the same part).	<ul style="list-style-type: none"> – The current CD is dirty. 	<ul style="list-style-type: none"> • Clean the CD with a soft, lint-free cloth.
– The current CD skips tracks.	<ul style="list-style-type: none"> – The CD is damaged or dirty. 	<ul style="list-style-type: none"> • Replace or clean the CD.
– Playback does not start from the first track (of the current CD).	<ul style="list-style-type: none"> – PRG (program) or SHUFFLE activated. 	<ul style="list-style-type: none"> • Switch off SHUFFLE or clear programme.
– No sound or bad sound.	<ul style="list-style-type: none"> – Loose or wrong connections. – Strong magnetic fields near the CD changer. 	<ul style="list-style-type: none"> • Check connections. • Find another place for the unit or change connections.
– No sound or bad sound on headphones .	<ul style="list-style-type: none"> – Level control set to – position. – Headphones plug is dirty. 	<ul style="list-style-type: none"> • Set level control. • Clean plug.
– Volume is too low.	<ul style="list-style-type: none"> – Sound level has been adjusted too low with the –VOLUME + keys on the remote control . 	<ul style="list-style-type: none"> • Adjust sound level.
– Remote control does not function.	<ul style="list-style-type: none"> – Batteries are empty. 	<ul style="list-style-type: none"> • Replace the batteries.
– Remote control commands are not properly received .	<ul style="list-style-type: none"> – The distance between remote control and CD changer is larger than 10 metres. 	<ul style="list-style-type: none"> • Reduce the distance between remote control and CD changer.



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