

Precautions



1 - Setting up

Ensure that the mains supply in your house complies with that indicated on the identification sticker located at the back of your player. Install your player horizontally, on a suitable base (furniture), with enough space around it for ventilation (7-10 cm). Make sure the ventilation slots are not covered. Do not stack other, or heavy equipments on top of the player. Do not place the player on amplifiers or other equipment which may become hot. Before moving the player, ensure the disc tray is empty.

This player is designed for continuous use. Switching off the DVD player to the stand-by mode does not disconnect the electricity supply. In order to separate the player completely from the mains, it has to be disconnected by unplugging the mains plug, especially when left unused for a long period of time.



2 - Caution

Protect the player from moisture and excess heat (e.g. fireplace) or equipment creating strong magnetic or electric fields (i. e. speakers ...). Disconnect the power cable from the mains electricity supply if the player malfunctions. Your player is not intended for industrial use but for domestic purposes only.

Use of this product is for personal use only. Copying CDs or downloading music files for sale or other business purposes is or may be a violation of copyright law.

DISCLAIMER OF WARRANTY: TO THE EXTENT ALLOWED BY APPLICABLE LAW, REPRESENTATIONS AND WARRANTIES OF NON-INFRINGEMENT OF COPYRIGHTS OR OTHER INTELLECTUAL PROPERTY RIGHTS RESULTING FROM THE USE OF THE PRODUCT UNDER CONDITIONS OTHER THAN AS HEREBY SPECIFIED ARE HEREBY EXCLUDED.

Condensation

If your player or a disc have been stored in a cold atmosphere, as for example during transportation in the winter, wait for approximately 2 hours until they have reached room temperature.

3 - For your safety

Never open the player or any of its components. It can be dangerous for you or for certain fragile components. You could receive an electric shock or touch the laser beam.

Do not place your eyes close to the opening of the disc tray or any other opening to look inside the player.

4 - Discs

Always handle your discs with care. Hold a disc with fingers on the border or hole.

Always place disc with the label facing upward (in case of a single-sided disc).

Always place the disc properly into the tray using the proper guide area.

Always use a soft cloth to clean discs if necessary, wipe from the centre to the border.

Always put discs back into their cases after playing and store in a vertical position.

Never try to play a Photo CD.

Never use record cleaning sprays, benzene, static electricity liquids or any other solvent, if the disc surface is dirty. Wipe gently with a soft damp (water only) cloth, never wipe the disc in a circular motion, since circular scratches are likely to occur and could cause noise during playback.

DVD copy protection

In accordance with the DVD standard, your DVD player is equipped with a Copy Protection system, which can be triggered on and off by the DVD disc itself, in order to make any recording of the concerned DVD disc onto a videotape of very poor picture quality, or even impossible. "This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home use only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited."

5 - Batteries

Please respect the environment and prevailing regulations. Before you dispose of batteries or accumulators, ask your dealer whether they are subject to special recycling and if he accepts to take them back.

THOMSON multimedia shall not be responsible if the player is not used according to this manual.



About discs and sound

Discs you can play



Digital video discs

12 cm and 8 cm, single or double sided, single or dual layer. DVDs are high density optical discs on which high quality picture and audio are recorded by means of digital signals.



Region code number

Your DVD player responds to the region management information recorded on a DVD disc.

The region code for your player is region 2.



So, if you are going to buy a DVD disc, pay attention to the logo: it has to be the right one. ALL means all regions.

Other regions

- 1: USA, Canada - 2: Europe, the Middle East, Rep. of South Africa, Japan - 3: Southeast Asia, Taiwan
- 4: Central America, South America, Australia, Mexico, New Zealand
- 5: Russian federation, Africa (except Egypt and Rep. of South Africa), India, Pakistan
- 6: China.



Audio CDs

12 cm and 8 cm.



Most recordable - CD audio 12 cm

(Depending on the type of disk writer and the disks used)



Video CDs

12 cm and 8 cm (with or without playback control).



NTSC playback on PAL TV set

In addition to the PAL DVDs and video CDs, you may enjoy your favourite NTSC movies as well (a 60 Hz PAL compatible TV set is required) (For monitors with only NTSC input, please see p 11).



MP 3 files on Audio CDs

12 cm.



Sound

Dolby Digital

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DTS is a digital Sound compression technique. “DTS” and “DTS Digital” are trademarks of Digital Theater Systems, Inc.



Logo registered by PHILIPS Corp.

Discs you cannot play

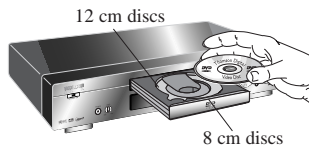


CD-I, CD-ROM, DVD-AUDIO, DVD-ROM, DVD-RAM, DVD-RW, CDV, CD-G. DVD with regional code other than that of your player. Do not play Photo CDs.

Playback

Place a single-sided disc with label facing upwards. (double-sided discs have a small label on both sides near the center).

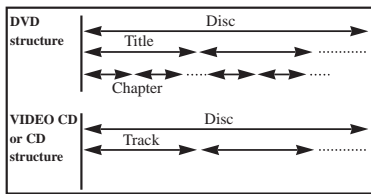
Open the disc tray with the **OPEN / CLOSE** key on the set or on the Remote Control.



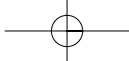
According to the disc

Functions and information available on the DVD (titles, chapters, time info, sound track languages, subtitles, ratings (age limit), camera angles and more) may differ from disc to disc.

Refer to the instructions accompanying the disc. Some discs may have been designed to prevent operations such as: Chapter skip, picture scan, and repeat play.



⊘ This symbol on-screen indicates that you have pressed the wrong key or that the requested function is not available.



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Playback your Discs, DVD, audio CD, video CD

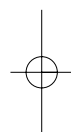
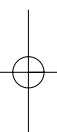
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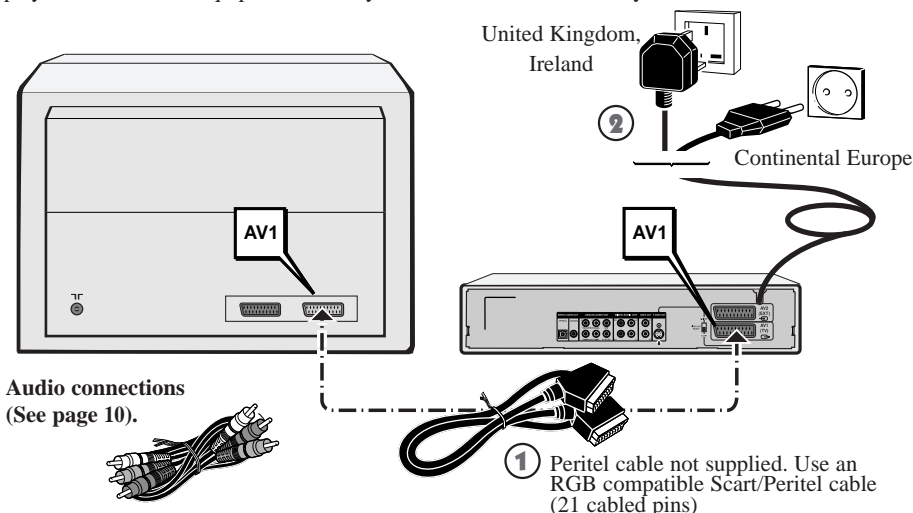


Before you start



Basic connections

Connect all equipment before plugging any power cords in the wall outlet. Always turn off the DVD player, TV and other equipment before you connect or disconnect any cables.



Initial set-up

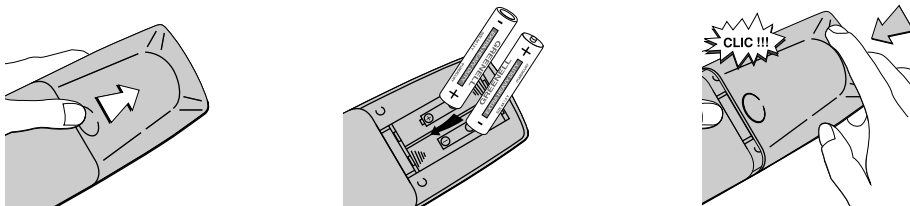
- Press **STANDBY/ON** on the DVD front panel or press on the remote control to switch on your DVD player.

 - The first time you turn on the DVD, the language menu is displayed. If it is not displayed, select the appropriate AV input of your TV set manually (see the manual of your TV set).
- Press the appropriate **number key** on the remote control to select a language (1 for english, 2 for french, ...). If you do not press any number key, you will have to select manually all menus related to the languages.
- You can now play discs. However we recommend (you complete the set-up first.) (p 12-13):

 - The menus of the player and the menus, dialogues, and subtitles of DVDs will now be in the language chosen in step 2. This choice applies to all DVDs. To change the language, see page 12. To temporarily change the language of the dialogues and subtitles, see pages 17-18.

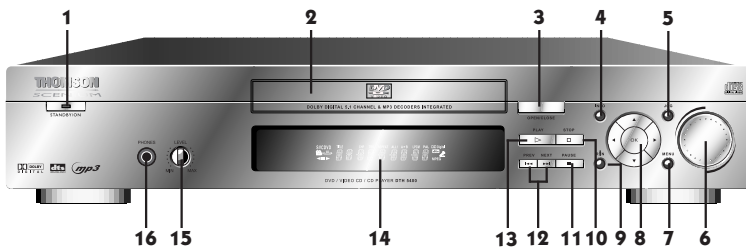
Press 1 for English
 Pressez 2 pour Français
 Drücke 3 für Deutsch
 Premere 4 per Italiano
 Pulsar 5 para Español
 Tryck 6 för Svenska

Fit the batteries

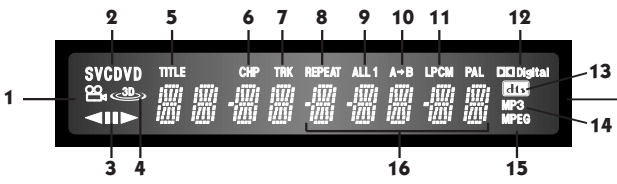


⚠ Do not mix different types of batteries (alkaline, rechargeable ...) or new and used ones.
 The pages of this publication are printed on recycled paper. Other connections? See pages 10-11.

Front display



- 1. STANDBY/ON:** Use to turn the power on and off.
- 2. DISC TRAY**
- 3. OPEN/CLOSE:** Press to open and close the disc tray.
- 4. INFO:** Displays the information banner for the disc that is currently playing (p. 9).
- 5. JOG:** Use to change the function of the shuttle ring: when JOG is pressed indicator lights up (frame advance/CD track selection) (p.14).
- 6. Shuttle:** Use during DVD and CD play to fast forward or reverse (p. 14).
- 7. MENU:** Use to access the disc menu (if the disc is playing) or the player menu (if disc is stopped) (p. 8).
- 8. Arrows and ok:** To select and confirm the current menu setting.
- 9. RTN:** Return to the previous menu screen.
- 10. STOP:** Stops disc play.
- 11. PAUSE:** pauses disc play.
- 12. PREV:** Allows you to move to the beginning of the next title, chapter, or track on a disc (in effect, "skipping" the title, chapter, or track). Press and hold to forward through the DVD or CD; each subsequent press and hold increases the forward speed (p. 14).
- 12. NEXT:** Allows you to move to the beginning of the preceding title, chapter, or track on a disc (in effect, "skipping" the title, chapter, or track). Press and hold to reverse through the DVD or CD; each subsequent press and hold increases the reverse speed (p. 14).
- 13. PLAY:** Begins disc play (and closes disc tray if open).
- 14. Front Panel Display:**
- 15. PHONE LEVEL:** Sets the volume level of the headphones.
- 16. Headphone jack:** Plug headphones here for private listening.



- 1.** Indicates that the **Angle feature** is available (you can select multiple angles of a scene recorded by different cameras). page 16
- 2.** Indicates a **video CD (VCD), audio CD (CD) or DVD (DVD) disc is loaded in the player.**
- 3.** Indicates **playback direction.**
- 4.** Lights when **3-D Surround** is turned on. page 17
- 5.** Indicates repeating or programming of the **titles**, with **REP, ALL** and **PROG.** page 20
- 6.** Indicates repeating or programming of the **chapters**, with **REP, ALL** and **PROG.** page 20
- 7.** Indicates repeating or programming of the **tracks**, with **REP, ALL** and **PROG.** page 20
- 8.** Indicates that the **Repeat mode** is set (**REPEAT**). page 20
- 9.** Indicates that the **Repeat All feature** is in use (**ALL1**). page 20
- 10.** Indicates that the **A-B Repeat** is in use. page 20
- 11.** Indicates that **LPCM sound** is available on DVD disc.
- 12.** Indicates that **Dolby Digital sound** is available on DVD disc.
- 13.** Indicates that **DTS (Digital Theater System) sound** is available on DVD disc.
- 14.** Indicates that **MP3 sound** is available on CD-R disc.
- 15.** Indicates that **MPEG-2 audio sound** is available on DVD disc.
- 16.** Indicates the **DVD modes: PLAY, STOP, LOAD, RANDOM, NO DISC:** ex: Load: The player is loading information from the disc.



Basic functions

Power / Stand-by

To switch your player on and off.



Additional handy functions

To also use the remote control with your video-recorder or TV set (page 30-32).



To open or close the disc tray (page 8).

To memorize scenes for replay (page 15).

For random play and programme play (pages 19-20-21).

To access the INTRO (MOSAÏC) function (page 16).



To enjoy virtual surround sound, if you only use a stereo TV or 2 speakers (page 17).

To repeat the last 10 seconds of a DVD disc (page 15).

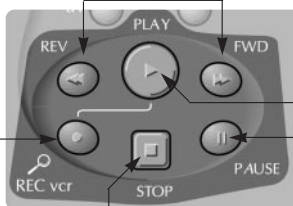
Playback

Switch on your DVD player and TV set. Select the correct AV input on your TV, if necessary. You may also turn on your hifi system and select AUX, CD or DVD (properly connected to the player).

To skip chapters or tracks.

For fast reverse or forward and visual search (while playing) in both directions. Press **▶▶** / **◀◀** (21) repeatedly to go to the next or previous track/chapter; press as many times as the number of required track/chapter skips.

To zoom-in during playback, slow motion or pause mode on the selected area of a scene (page 19).



To start playback (page 14).

For pause / still picture, frame advance, and slow motion (page 14).

To stop a disc (to stop completely press **twice**).

The player has memorised the last scene on the disc. If you now press **PLAY** (27): playback starts from this point. To erase **Resume memory**, press **STOP** (29). **Resume memory** does not work with interactive discs (without elapsed play time information).

- If the player is left in STOP mode for more than 1 minute without any user interaction, a screen saver will be activated (fade in / fade out).
- After about 30 minutes have elapsed in STOP mode without user interaction, the player will be automatically switched off.

Basic functions

Selections via menu

Displays (on and off) the disc's special features on-screen (pages 8-9-15-16-20).*

Displays (on and off) the subtitle language name abbreviation on-screen (page 18).*

Displays (on and off) the dialogue language name abbreviation and the audio format on-screen (page 17-23).*



Displays (on and off) the disc's contents on-screen (pages 8-23).*
Introscan for CD Audio/CD Video (page 14)

Displays (on and off) the camera angle number on-screen (page 16).*

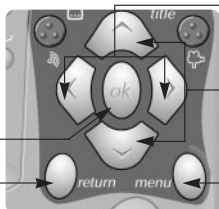
*If available



Menu operation

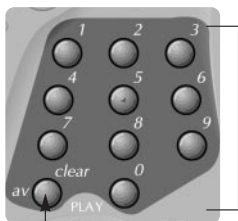
Confirms a selection.

To go back in menu levels.



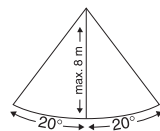
Arrows move to items.

Displays (on and off):
- the disc's menu (if available) during playback (page 8),
- the player's set-up menu after having stopped a disc with the **STOP** key (pages 12 and others).



Use the number keys to input chapter or track numbers or to select menu items.

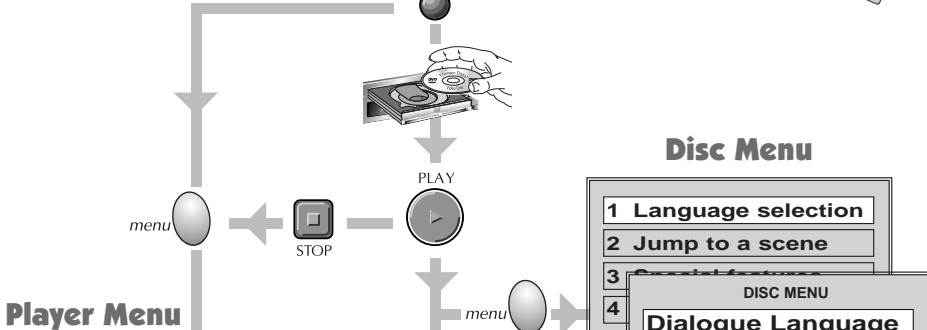
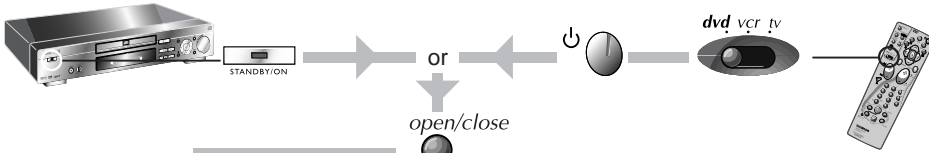
Clears on-screen displays
Clears markers in the marker on-screen display (p. 15).
Clears program, repeat and random play. (p. 19-20-21).



Read pages 30-31 on the UNIVERSAL remote control to operate your TV set or video recorder.



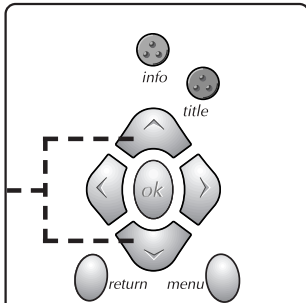
Menus



Player Menu

MAIN MENU	
1 Audio	English
2 Subtitles	Automatic
3 Player Menu	English
4 Disc Menu	English
5 Rating Limit	Unlocked
6 Audio Options	
7 Display Options	

RETURN OK



To use player or disc Menus

Move to the items using the arrow keys <> (18, 16), ^v (14, 17). Press **ok** (15) to confirm a selection (or use number keys to select without confirmation). Use **return** (20) key to go back to previous menu. Press **info** (10), **title** (12) and **menu** (19) once again to remove the menus.

Disc Menu

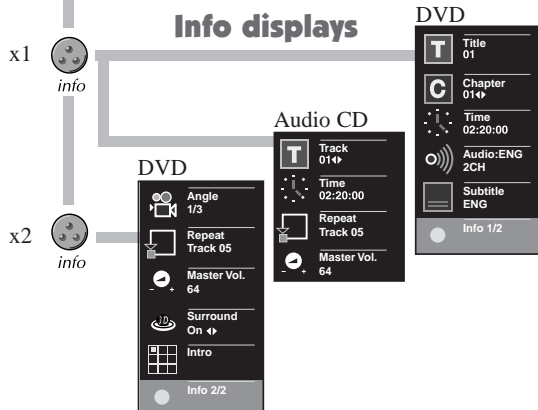
1	Language selection
2	Jump to a scene
3	Special features
4	Disc Menu

DISC MENU	
Dialogue Language	
1	English
2	Deutsch
3	Français
4	Italiano

"Disc contents" menu

DISC CONTENTS	
Pedigree dogs	Food
Raising dogs	History

Info displays



The info displays and disc menus may differ since they depend on the type and content of the discs (DVD, Audio CD, and Video CD, see pages 9-15-23).

Info displays

This page gives you an overview of the possible information available on a disc.



PLAY



1. Press **PLAY (27)**, to play a disc.
2. Press:
 - 1x yellow **info** key (10) for Info level 1,
 - 2x yellow **info** key (10) for Info level 2.



info

info key pressed once / Interactive screen

With DVD disc

T Title 01	Title 01 is being played p.15
C Chapter 01	Chapter 01 is being played p.15
Time 02:20:00	Elapsed time from the beginning of the current title p.15
Audio:ENG 2CH	Audio language p.17
Subtitle ENG	Subtitle language p.18
Info 1/2	

DVD

With audio CD or video CD

T Track 01	Track number 01 is being played p.15
Time 02:20:00	Elapsed time from the beginning of the current track p.15
Repeat Track 05	Track 05 is Repeated p.20
Master Vol. 64	Adjust the volume.

Language abbreviations used in the player's menus.

See pages 17 & 18.

ARA _____ Arabic	ITA _____ Italian
CHI _____ Chinese	JPN _____ Japanese
CZK _____ Czech	NLD _____ Dutch
DAN _____ Danish	NOR _____ Norwegian
DEU _____ German	POL _____ Polish
ENG _____ English	POR _____ Portuguese
ESP _____ Spanish	RUS _____ Russian
FRA _____ French	SVE _____ Swedish
FIN _____ Finnish	TUR _____ Turkish
GRE _____ Greek	ZAF _____ Afrikaans
HUN _____ Hungarian	
IND _____ Hindi	*** _____ Others

For some DVDs which offer a DVD menu, you can also press the **menu** key (19) during playback and follow the steps offered by the disc-specific menu to make your dialogue, subtitles, language selection according to what is available on that particular disc.



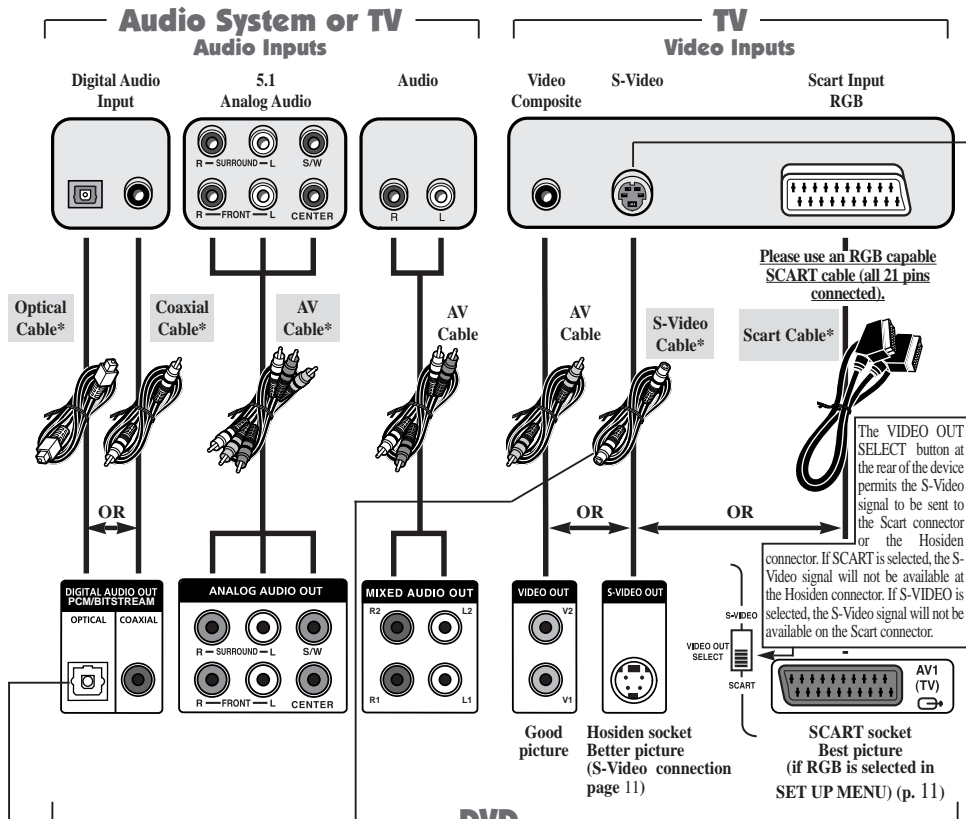
info

info key pressed twice / Interactive screen

With DVD disc

Angle 1/3	Camera angle number 1 (out of 3 available on that disc) is being played p.16
Repeat Track 05	To repeat a scene, a chapter, a disc or a track (CD) p.20.
Master Vol. 64	Audio CD, video CD or DVD: The different types of discs (DVD, Audio CD, Video CD) may differ a lot in volume level. This function allows you to harmonize them.
Surround On	To enjoy Virtual Surround Sound (p.17).
Intro	To access a particular chapter (p.16).
Info 2/2	

Video and Audio connections



* in grey : not provided

If the SCART socket (with S-Video or RGB) is not free.
 Connect your DVD player using a special S-Video cable (not provided) for the video connection and a Cinch cable for audio left and right inputs (provided).
Note: Always connect your DVD player to the other set (tv, AV Amplifier, ...) with only one video cable - either SCART, S-Video or Video (Cinch).

With a S-Video or Video(cinch) connection, (Not required when using the SCART connection). Select on your TV set the correct AV input and set the TV screen aspect : 4x3 or 16x9 (see your TV user's manual).

Remove the protection cap from the DVD socket and connect the optical audio digital cable firmly as shown. Keep the protection cap and always reattach the cap when the connector is not in use, to keep it dustfree.

Video connection settings



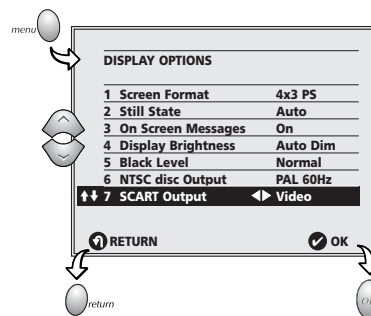
SCART Output

If your TV can receive RGB, select **"RGB"**. (recommended selection).

If your TV can receive S-video (Y/C) via the SCART socket, select **"S-Video"** in the **DISPLAY OPTIONS** menu. In this case, set the VIDEO OUT SELECT button at the rear of the device to the SCART position.

If your TV can only receive normal (composite) video signals via the SCART socket, select **"Video"**.

- If RGB is selected, there will be no output on the S-Video Hosiden plug.



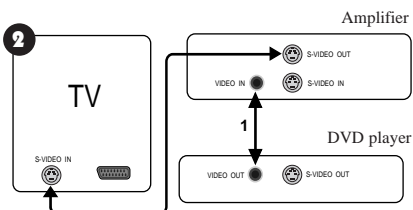
NTSC Disc Output on SCART

If your monitor has only a NTSC video input, select **"NTSC"**. If not, leave **"PAL 60 Hz"** (default setting: ex factory).

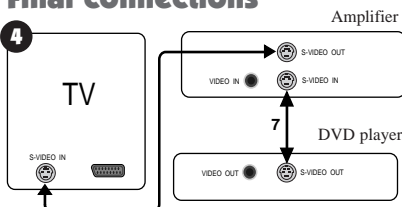
S-Video Output via Hosiden socket

In order to link your DVD player up to an S-Video compatible Home Cinema system, you will need to enable S-Video output through the Scart or S-Video (Hosiden) sockets. Change the factory settings of the Scart output of your DVD player from **RGB** to **S-Video**, by following steps 1 to 4.

- 1 Set the **VIDEO OUT SELECT** button at the rear of the device to the **S-Video** position.



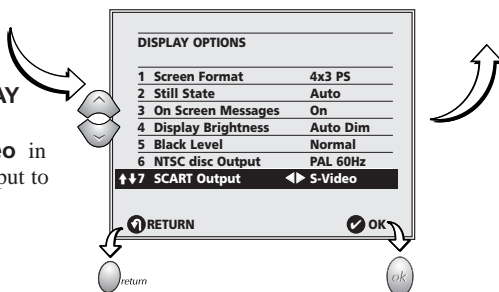
Final connections



Connect the DVD player (**VIDEO OUT**) to the amplifier (**VIDEO IN**) via the twin yellow plugs of the Audio/Video RCA phono cable supplied with the DVD player.

Unplug the RCA phono cable (see Step 1 above) and connect the DVD player to the amplifier by means of an S-Video cable (not supplied).

- 3 Display the **DISPLAY OPTIONS** menu and set SCART output to **S-Video** in order to set the DVD output to S-Video.

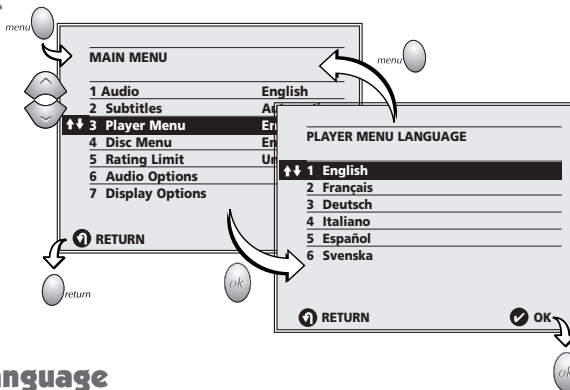


Preferred languages



Player menu language

Configure this setting if you want to change the language of the player's menus (not necessary after initial set-up, page 4).



Your preferred disc language

Your preferred languages for dialogues, subtitles and menus are those that the player selects for you automatically for all discs (if available). Of course you can change them for each disc (pages 17-18).

There is no need to make the following settings, as language selection during basic set-up (page 4) has automatically performed these settings:

If you selected "English" you now have:

- the main menu, in English,
- the menus of the disc, in English (if available),
- the language of the dialogues, in English (if available),
- subtitles in English automatically (if available), if there are no dialogues in English.

If there is no English on the disc for menus, dialogues, and / or subtitles, the player selects the default language of the disc.

Select the language you want.

1a. For the Audio dialogue language press key number **1 (24)**.

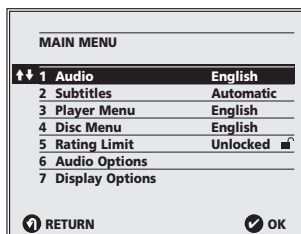
- If "Original" is selected, the player will choose the original soundtrack on the disc.

1b. For the Subtitle language press key number **2 (24)**.

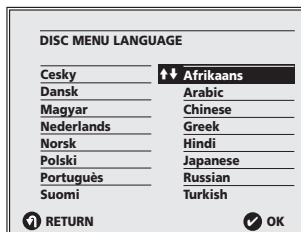
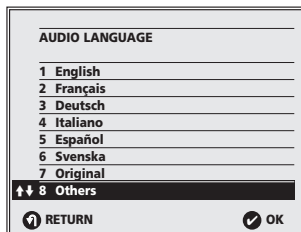
- If "Automatic" is selected, the player will choose the same language as under "Audio Preference" for subtitles.

That means, if your preferred dialogue language (Audio) is available, subtitles are not shown and if your preferred dialogue language is not available on the disc, subtitles are shown (if available).

1c. For Disc menu language press key number **4 (24)**.



Audio language, subtitles or disc menu language.



Picture setting



"4x3" / "16x9" TV screen



Select picture format according to your TV screen, Wide-screen (16x9) or conventional size (4x3) (see the end of this manual).

1. Select "Screen Format", press key number **1 (24)**.

2a. You have a standard (4x3) TV screen.

Press key number **2 (24)**, if you want to see the full 16x9 picture (letterbox).

- With a 16x9 movie, you will see black strips appear at the top and bottom of the screen.

Press key number **1 (24)**, if you want to see the central position of the 16x9 screen (the sides of the 16x9 movie picture may be cut off) (Pan and Scan).

- With a 4x3 movie, you will have the full size picture.
- The screen format is defined by the DVD disc and it might be impossible to modify it.

2b. You have a wide-screen (16x9) TV set.

Press key number **3 (24)**.

- With a 16x9 movie you will have the full size picture.
- With a 4x3 movie you will see black strips appear at left and right side of the screen.

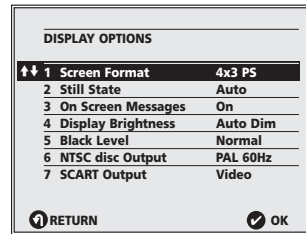
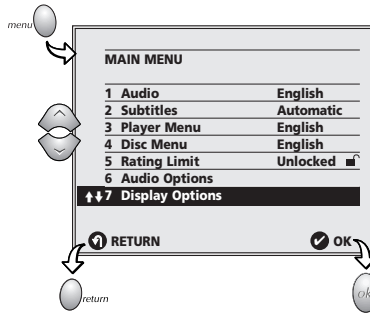
3. To exit "MAIN MENU" press **return** key twice (20).

- On some DVD discs, the screen aspect ratio may be fixed and cannot be changed.

• TV zoom function

Do not use the zoom function on your TV during this set-up, as parts of the picture and menu could be hidden.

- When using the S-video or video connection, unlike when using the SCART connection, the TV screen aspect has to be selected manually on your TV set.



(4x3) TV screen.



16x9 movie



4x3 movie

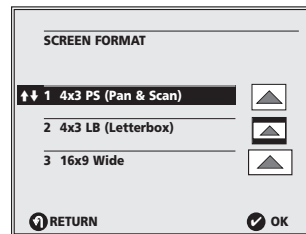
(16x9) TV screen.



16x9 movie



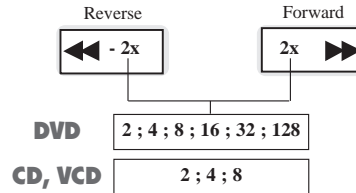
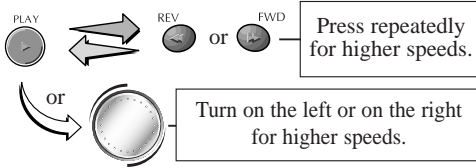
4x3 movie



Scene Access

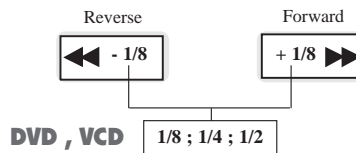
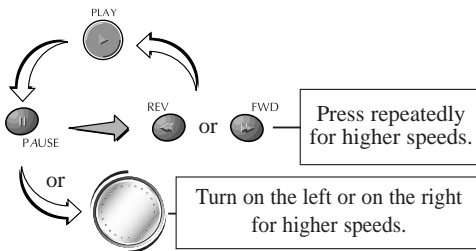


Fast motion / Picture and track scan

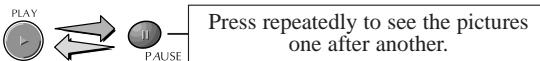


- You can also use the same name keys with the same name on the front panel of the player.
- In search mode with DVD discs, no sound will be heard, except in (2x) if the proper selection has been made (p 25).

Slow motion (DVDs and Video CDs)



Stills and frame advance (DVDs and Video CDs)

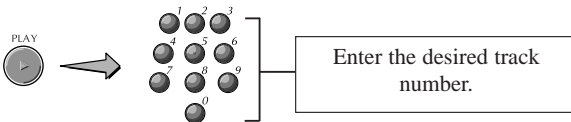


- Only possible in forward mode.
- If the player is left for 5 minutes in PAUSE mode, it will STOP.



Direct Access to a track (Audio CD / MP3*)

* Direct access to the selected album only.



CD intro (Audio CD)

You can listen to the beginning of each track for about 10 seconds.
"Intro" appears on the TV screen and the player display.



Scene Access

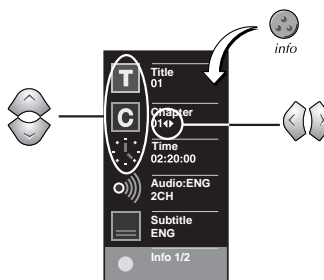


Titles, chapters, tracks, or elapsed time

A DVD may contain several titles, which could be different movies or video programmes. These titles may be divided into chapters each of which is numbered, to provide quick access to specific parts of the DVD. Tracks give you a quick access to specific parts of the audio CD and video CD.

Select titles / chapters / tracks or directly enter a figure with the numeric keys.

- If you select an amount of time not existing on the disc, “0” may then appear on-screen.
- Some discs cannot be searched, even if the elapsed time is displayed.



Scene again

This function allows you to see the last 10 seconds of the DVD disc in play mode by pressing the key (7). If you press **twice**, you will see the 20 last seconds. Press three times to see the 30 last seconds, and so on. The subtitles will be displayed at the same time to allow you to catch a scene you missed.

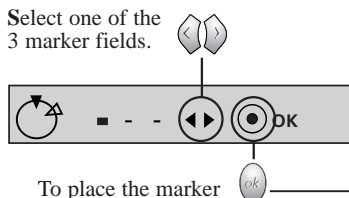
Index and Markers (DVDs and Video CDs)



The player can memorise up to 3 locations on the disc, as long as the disc remains loaded. This function operates only with discs showing the elapsed time (not on Video CD with PBC - Menu “ON” mode). During play mode, access the Index or Markers pressing the **marker** (4) key.

1. Placing markers (3 maximum)

Select one of the 3 marker fields.

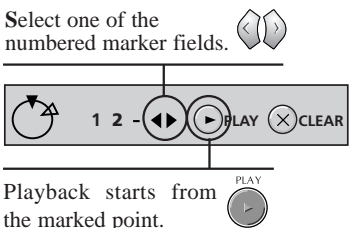


“-” indicates: no marker has been recorded yet.



2. To play a marked scene

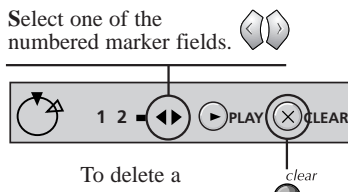
Select one of the numbered marker fields.



Playback starts from the marked point.

3. To erase a marker

Select one of the numbered marker fields.



To delete a bookmark number.

Markers are cleared when the tray is opened and / or when power is turned off.

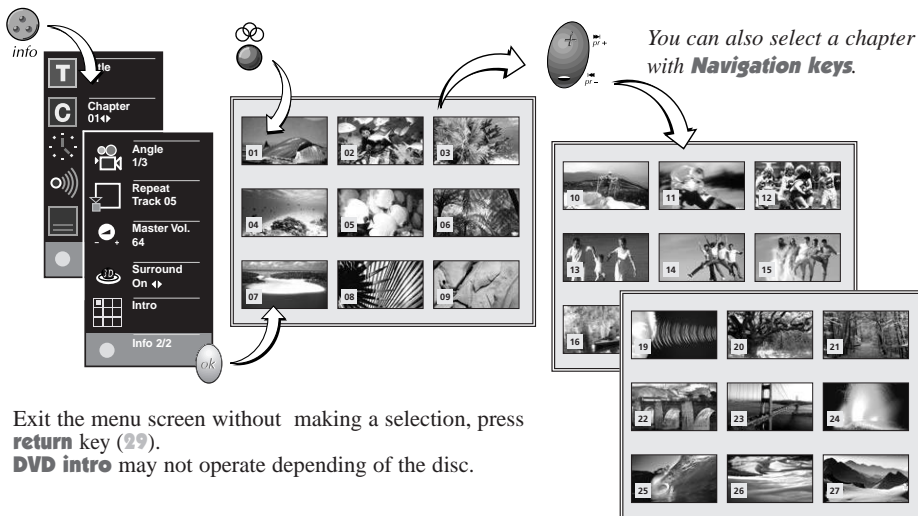
4. Exit the display with the **marker** key (4).

Scene Access



DVD intro (Mosaic) - Chapter view

Another way to access a particular chapter is to use the **DVD intro** function when the player is in play mode. Press **twice** the **info** key (10), then select Intro with $\wedge \vee$ keys and confirm with **ok**. The small still photos from the first 9 chapters appear slowly on the screen (it takes 3 seconds for each one). Select the chapter you want to play with the numbered keys or use $\leftarrow \rightarrow$ and **ok**. To access to the other 9 chapters press $\blacktriangleright \blacktriangleleft$ (21) the second set up 9 chapters still appears. You can also access the intro function pressing the \odot key.

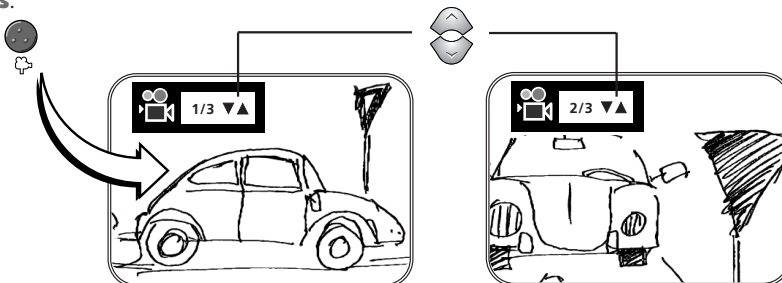


Exit the menu screen without making a selection, press **return** key (29).
DVD intro may not operate depending of the disc.

DVD Camera angle

On certain DVDs, particular scenes of a movie may be recorded from various points of view (up to 9 camera angles), which you can select. If this option is available on the disc, the indication CAM appears on the TV screen and on the player's front display.

In play mode, press the **violet** CAM key (13) and select a camera angle number using the **Navigation** keys.



- If you selected the **On Screen Messages = Off** in the player set up menu (see p. 24), the camera icon will not appear.
- Each angle number corresponds to a different viewing angle.

3-D Surround / Dialogue languages



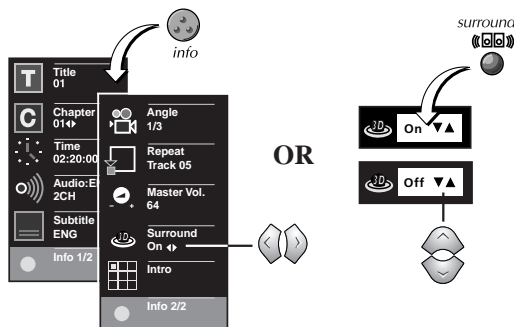
Virtual 3-D Surround Sound (for DVDs, Video CDs, Audio CDs)

If you use a stereo TV or a two-channel stereo system, be sure that in the audio options of the setup menu, “**Dolby Digital Out**” and “**MPEG-2 Digital Out**” are set to “PCM” (see page 25).

Press **twice** the **info** key (10), then select **Surround** with **^**/**v** keys and switch the function On or Off with **<**/**>** keys. You can also switch **On** or **Off** the function, press the **3D-surround** key on the remote control or use the **Navigation keys** once you have the 3D-surround strip on-screen.

- For optimum effect the distance between the TV set and the listening position must be about 3 or 4 times the distance between the front speakers.
- Turn off the TV set surround sound and other surround effects (HiFi system).
- 3-D surround does not work with LPCM or DTS sound tracks of DVD discs, or with DTS track of Audio CDs. It is possible only on DVDs with Dolby Surround or Dolby Digital.
- This feature only operates from the Analog Audio out and from the Scart connector. It will not operate from the Digital Audio Out (optical), if “**Digital Audio Out**” or “**MPEG-2 Digital Out**” are set to “**BITSTREAM**” in the Audio options of the setup menu (see page 25).

- The simulated surround effect depends on the disc contents.
- This technology is manufactured under license from Desper Products Inc.
- “**SPATIALIZER**”, “**N-2-2**” and the “**Circle in square**” are Trademarks owned by Desper Products Inc.



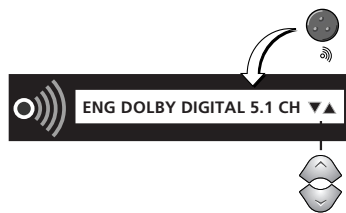
Audio language (for DVDs)

During playback, with some discs, you can choose to hear other soundtrack languages (up to 8 if available) than the original one. The audio languages available on the disc are indicated on the back cover of your DVD disc box. According to the disc you will have to access to the **Audio languages** selection either with the **red** key (16) on your remote control or with the **menu** key. These 2 possibilities are detailed in the A or B procedure below. The audio returns to the player’s initial settings after the disc is removed or power is switched off. The initial settings have been made during the DVD player’s set up on page 4.

A - Using the player info display.

In play mode, press the **red** key (16). The audio display appears on-screen with (possibly) the abbreviation of the language and the corresponding audio format. Select a language with **Navigation keys**.

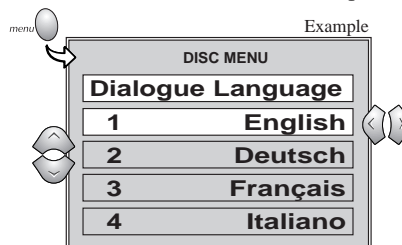
Exit the Audio display with the **red** key (16) or press **clear** (25) to remove the banner without making changes.

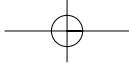


B - Using the Disc Menu (if available).

In play mode, press the **menu** key (19). The disc menu appears on-screen with (possibly) the dialogue languages available on that particular DVD disc.

Select the desired language with **Navigation keys**, then press **ok** (15) to confirm.





Subtitle languages



During playback, with some discs, you can choose the subtitle language (up to 32 if available). The subtitles available on the disc are indicated on the back cover of your DVD disc box.

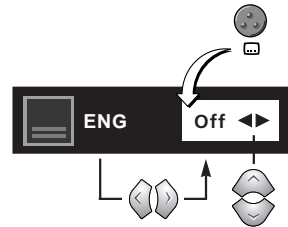
Depending on the disc you will have to access to the Subtitle languages selection either with the coloured key (■) on your remote control or with the menu key. These 2 possibilities are detailed in the A or B procedure below. Firstly, you will have to switch on the subtitles display.

The subtitles return to the player's initial settings after the disc is removed or power is switched off. The initial settings have been made during the DVD player's set up in page 4.

DVD Subtitles on / off

In play mode, press the green key (■) to see the subtitles display with possibly the abbreviation of the language and use the Navigation keys to switch on or off the subtitles.

- When there is no subtitle on the disc the "****" indication appears instead of the language name.



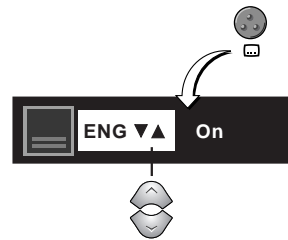
DVD Subtitles selection



A - Using the player info display.

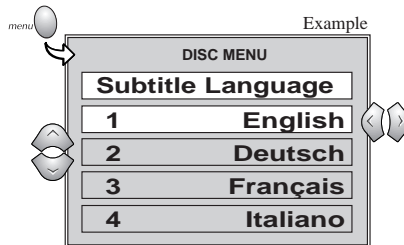
In play mode, press the green key (■); the subtitle display appears with possibly the abbreviation of the language. Use the Navigation keys to select another subtitle language.

- When there is no subtitle on the disc the "****" indication appears instead of the language name.



B - Using the Disc Menu (if available).


In play mode, press the menu key (■) and select the desired language with the Navigation keys, then press ok (■) to confirm.



Zoom / Random play




DVD and video CD Zoom

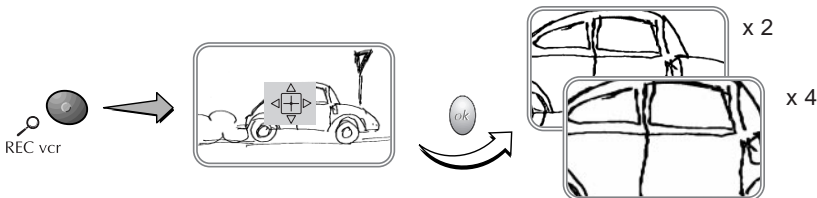
In play mode, press the **ZOOM**  key **twice (31)** and select the part of the scene you want to zoom.

When the selection box is over the area you want to view, press **ok (15)** to zoom in:

- For DVDs, by pressing **ok (15)** repeatedly, you zoom-in x2 times / x4 times / X2 times / back to normal.
- For video CDs, by pressing **ok (15)** repeatedly, you zoom-in x2 times / back to normal.

To return to normal view again, press **ZOOM**  key (**31**) **once** or **twice** depending on the current setting.

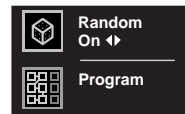
This function also works in Pause and Slow motion modes.



Random play (for DVDs and Audio CDs)

Your player can play the tracks on the disc in random order.

Press **prog / random (3)** on the remote control and select **“Random On”**. Press **ok (15)** to confirm and start random playback.



To clear Random play

Press **prog / random (3)** on the remote control and select **“Random Off”**. Press **ok (15)** to confirm.

- If you play a video CD with **“PBC”** menu mode (p. 23), random play is not available.

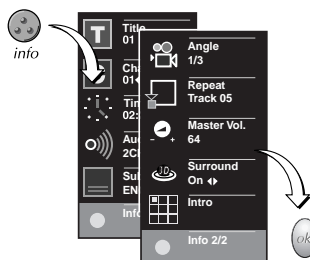
Repeat and random Play



Repeat play (for DVDs and Audio CDs)

Press **info** key twice then select the repeat function and choose either **Chapter**, **Title** or **Disc** with the **Navigation keys** then press **ok** (15) to start playback.

Repeat functions remain active until you turn them off, open the disc tray or turn off the power.



Repeat a scene between point A and point B.

Press **info** key twice then select the repeat function and choose **A-B** on screen using the **Navigation keys**. The letter **A** turn from white to yellow.

Press **ok** (15) to memorise the beginning of the scene you want to repeat. The letter **B** turn from white to yellow. Wait few seconds before pressing again the **ok** (15) key to mark the end of the scene to be repeated (**B** point). **A-B** is displayed in yellow, repeat play starts.

- To define the “**B**” point of the (**A-B**) section, the player must be in Normal play mode. Do not use “**REV** key (26) or **FWD** key (28)”, otherwise “**A-B**” Repeat mode will be lost.
- If the title or track is completed before marking the end **B**, the end of title or track automatically becomes **B**.
- Repeat play only works with discs that show the elapsed time on the display.
- It may not work correctly with some discs (Video CD, with PBC, Menu “**On**” mode).

Repeat CD with TV Off

For CDs, follow the steps below with the TV turned off.

- To repeat the track that is playing, press **repeat** (7) twice.
- To repeat the disc that is playing, press **repeat** (7) three times.
- To set an **A-B** repeat, press **repeat** four times. Press **ok** to set the starting point of the segment. Let the disc play to the **B** point, then press **ok** again.
- To cancel the repeat, press **clear** (25).

Slow Repeat

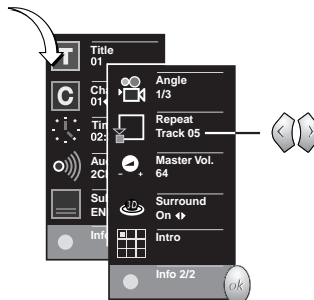


Put the player in **Frame advance mode** by pressing successively the **PLAY** (27), **PAUSE** (30), **FWD** (28) keys.

Press repeatedly the **FWD** (28) key to chose the slow motion speed (1/8, 1/4, ...).

Display the second Info banner by pressing **twice** the **info** (10) key.

Select the **Repeat function** then proceed as for the repetition of a scene between 2 points **A** and **B** : press **ok** once for the **A** point; press **ok** a second time for the **B** point; press **ok** again to start the Slow Repeat).



Programme Play

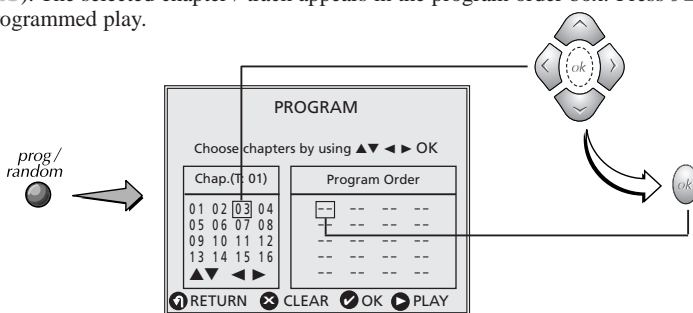


Programme play (for DVDs and Audio CDs)

The programme play function allows you to programme the CD tracks or DVD disc chapters you want to play.

- Program playback lets you set up a specific order for DVD / Audio CD / Video CD playback up to 20 chapters / tracks.
- Program playback is not available when you play Video CD in PBC mode when Video CD Menu is "ON" mode (see p. 23).
- This function may not work correctly with some discs.

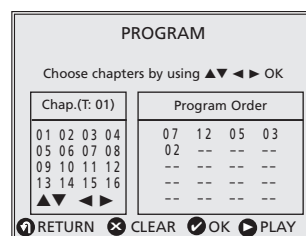
If a disc is playing, press **STOP (29)**. Press **PROG / RANDOM (3)** on the remote control then use the **Navigation keys** to select **Program** then press **ok (15)** to confirm. The **PROGRAM** menu appears. With the **Navigation keys** highlight the first chapter / track to add to the program then press **ok (15)**. The selected chapter / track appears in the program order box. Press **PLAY (27)** to start the programmed play.



- To resume normal playback, press **clear (25)** and then press **PLAY (27)**.

About DVD discs

- The player will automatically determine whether to do CHAPTER programming or TITLE programming.
- If there is only 1 title on the DVD disc, then it will do chapter programming.
- If there are 2 or more titles on the DVD disc:
 - If all titles contain only 1 chapter each, then it will do title programming.
 - if at least one title contains more than one chapter, then it will choose the first title with the largest number of chapters and do chapter programming on that title.



Deleting programmed items (chapters / tracks)

Remove the last chapter / track that was added to the program by pressing **clear (25)**. Each subsequent press of **clear (25)** deletes the next chapter / track in the opposite order the chapters / tracks were programmed.

- The only way to clear all items at **once** during PROGRAM MODE is to press **clear (25)** while in the STOP mode, or even during PLAY when there is no OSD present.
- All programmed chapters / tracks are deleted when the disc is removed or the DVD player is turned off.

Playing MP3 CDs



What's MP3?

MP3 is the audio **file format allowing** you to easily compress music recordings, and was **co-developed by THOMSON**.

The main advantage of MP3 is that it enables storage of CD-quality music tracks on a home computer in manageable, compressed files.

Thanks to compression you now only need about 4 Mb of disc space for a 4 minute music track, compared with some 40 Mb for conventional file formats, but with almost no reduction in listening quality!

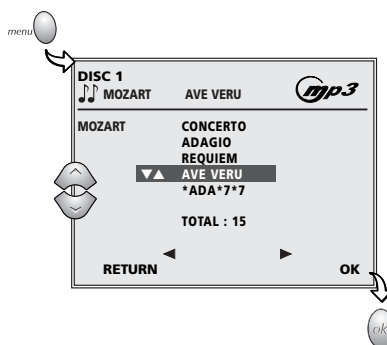
Please read also our recommendations about MP3 discs, on pages 34-35.

MP3 CD Playback

When you play an MP3 disc, the MP3 menu will be displayed instead of the DVD player menu. The DVD player menu is not available when playing MP3 discs.

MP3 content is divided into album(s) and songs. A disc may hold several albums and each album can contain several songs. (Similar to titles and chapters on a DVD disc.)

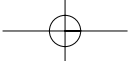
1. Use the **^v** (14, 17) keys on the remote to select an album and press **ok** (15) to select that album.
2. A list of the songs in that album will be displayed. If you want to play a particular song, use the arrow **^v** (14, 17) keys on the remote to highlight a song and press **ok** (15) to play that song. You may also enter the desired track number in the selected album by using the number keys.
3. If you are in a song list and want to return to the album list, press **return** (20) to return to the previous menu screen.



Skipping songs

During playback to skip to next or previous song on a MP3 CD:

- Press **▶▶|||◀◀** (21) repeatedly to go to the next or previous song; press as many times as the number of required song skips.



Video CD special operation



Video CD: Using Playback Control (PBC) menu

Some video CDs (version 2.0 with playback control, "PBC" written on the disc or its case) offer scenes or information to be selected interactively via menu screen. This menu appears after the disc is loaded (or after **PLAY** (27) or **menu** key (19) is pressed). Some video CDs (vers. 2.0) with PBC may not have a menu on-screen and may be like a video CD vers. 1.1.

Choose a menu item with the **number** key.

- Depending on the disc, the menu may extend over more than one screen. To see the other screens, use the **◀◀ / ▶▶** skip keys (21).
- Some discs displaying a menu at start up will automatically go in to play mode if nothing is changed on the menu after a certain period of time.

Pedigree dogs	
1	Collie
2	Terrier
3	Bobtail
4	Shepdog
5	Husky

Press **PLAY** (27) to start playback.

- To return from playback to the menu, press **return** (20).

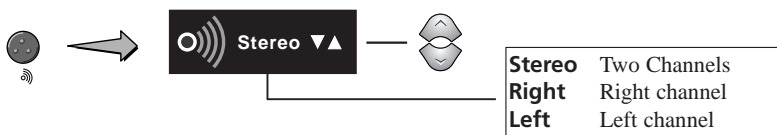
Press **STOP** (29) to stop playback and remove the menu.

- Complete stop is obtained by pressing **STOP** key (29) twice.
- Even after the player has finished playing a programme, the disc may continue to rotate while the menu is displayed. When no further selections are to be played, press **STOP** (29) to exit the menu.
- During playback, press yellow **info** key (10): info strip is displayed on-screen (level 1).

Video CD: Audio Channels Selection

In play mode, press the red **audio** key (8). The Audio channel banner appears on-screen. Select **Stereo**, **Right** or **Left** with the **Navigation keys**.

With the Video CD (vers.2.0) - in menu **Off** mode - or a Video CD Vers 1.1, when a track exceeds 15 minutes, you can moves forward / backward by 5 minutes steps using the **◀◀ / ▶▶** key (21).



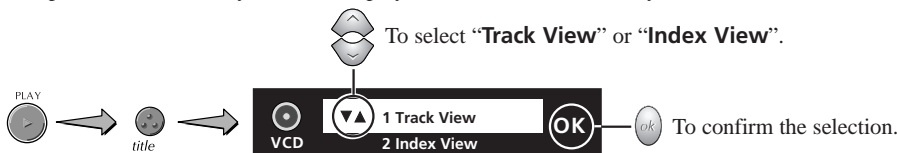
Exit Audio channel banner pressing the press red **audio** key (8).

Track View / Index View (VCD)

The desired music or video display can be accessed directly without using the menu function.

- **Track View** is used for showing the beginning view of each track and the track number.
- **Index View** is used for showing the 9 views of the current playing track.

When in VCD 2.0 mode with Playback Control this function does not work. In stop mode, press blue **"title"** key (12) and display the **"Track View"** directly.



Display Options



From the “**DISPLAY OPTIONS**” menu you can access all the settings related to the picture and display. Follow these instructions:

1 - Screen Format

Select the picture format according to your TV screen, Wide-screen (16x9) or conventional size (4x3). (see the end of this manual)

2 - Still state

If the picture should flicker when you pause a DVD, try changing the still mode settings.

Select “**2: Still state**”, then select “**Auto.**” or “**Field**” or “**Frame**”.

- **Auto:** let the player choose the best format for still picture.
- **Field:** when still picture shakes (video material).
- **Frame:** for clearer picture definition (film material).

3 - On-screen messages

You can decide whether the on-screen messages and icons appear in the left corner of the TV screen (Play, Pause, Angle icon, search speed indicators).

Select “**3: On Screen Messages**” and make your selection, “**On**” or “**Off**”.

4 - Front display panel brightness

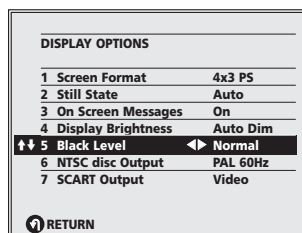
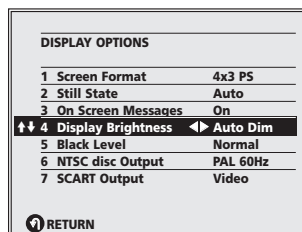
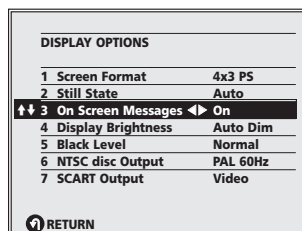
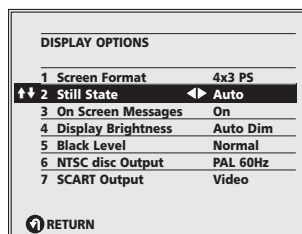
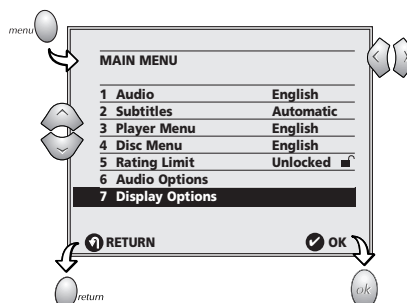
According to the room and the ambient light you may want to adjust the Display Brightness of the player.

Select “**4: Display Brightness**”; then select “**Bright**”, “**Dim**” or “**Auto Dim**”:

5 - Black level adjustment (only for video and S-video)

Films are made originally to be watched in a very dark environment (e.g.: cinemas theaters). When watching them at home, some scenes may be too dark to distinguish detail.

Select “**5 : Black level**”, then select “**Light**” or “**Normal**”.

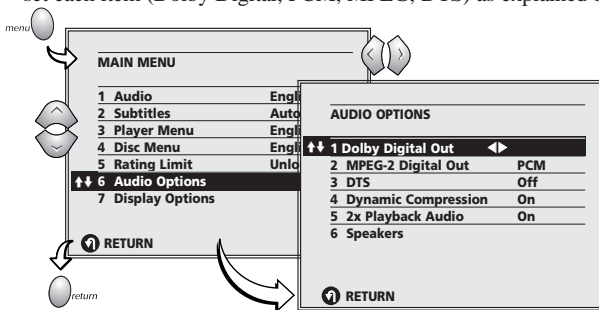


Audio Options



Digital audio output

Depending on the audio equipment connected to the digital output (coaxial or optical), you will need to adjust the audio option settings as explained below. From the Main Menu, select Audio Options, then set each item (Dolby Digital, PCM, MPEG, DTS) as explained below, using the **Navigation keys**.



- 1 **Dolby Digital Output:** PCM / Bitstream.
- 2 **MPEG-2 Digital Out:** PCM / Bitstream.
- 3 **DTS:** On / Off.
- 4 **Dynamic Compression:** On / Off.
- 5 **2x Playback Audio:** On / Off.
- 6 **Speakers**

Underlined options are factory settings.

Available Digital Decoder →	Dolby Digital	MPEG2	DTS
menu items →	1	2	3
CONNECTIONS: ↓			
dubbing*: DVDs to DAT or MD	PCM	PCM	Off
Dolby Digital decoder	Bitstream	PCM	Off
MPEG 2 decoder	Bitstream	Bitstream	Off
Dolby Digital + MPEG 2 decoder	Bitstream	Bitstream	Off
(older) D/A -converter**	PCM	PCM	Off
nothing connected	without importance		Off
DTS + Dolby Digital decoder	Bitstream	Bitstream	On

* If the DVD disc contains an audio format of higher quality than 48kHz/16bit (maybe 96kHz/24bit), the player has to convert into a format compatible with DAT or MD.

** In this case you do not hear the highest sound quality possible recorded on the disc (the analog AUDIO OUT is also affected).

Caution for the optical or coaxial audio output.

When connecting an amplifier (with an optical/coaxial digital input connector) which does not contain the Dolby Digital decoder or DTS decoder, be sure to select:

- Dolby Digital = **PCM**
- DTS = **Off**

Do not use ... the Digital Audio Out sockets to connect to an equipment other than a Dolby Digital, DTS, MPEG 2 receiver or a suitable decoder. Such a connection can create a high level of noise that may be harmful to your ears and could damage headphones or speakers. Older digital equipment, some of which are not fully compliant with IEC 958, are likely to cause this problem. If you encounter this problem, use the Digital audio out menu (see above) to convert the Dolby Digital audio bitstream output to linear PCM. The same should be applied with the so-called Optical or Coaxial REC.OUT socket of Dolby Digital decoders, when they are connected to this DVD player. Since REC.OUT is a 1:1 copy of the decoder's input, no other equipment should be connected there.

Dynamic Compression

This function, designed for late-night viewing without disturbing neighbours, reduces the soundtrack's dynamic range.

This function only works with Dolby Digital DVD soundtracks.

- **Off:** Normal audio range is selected.
- **On:** Select this setting to enjoy listening to the full dynamic range of the audio track even with a low volume, when you want to listen to a movie's dialogue without having to turn the volume up (Factory setting).

2x playback Audio (for DVDs)

Make your selection, "**On**" or "**Off**".

- No sound will be heard on discs with LPCM or DTS during 2x Playback.

Speakers



Speaker setting is required only if you use the 6 RCA phono sockets on the rear of the DVD player. In that case, the Dolby Digital / MPEG-2 decoder sends a decoded 5.1 signal to the amplifier (for further information, refer to page 10). Speaker setting is required only at installation.

System audio quality

Depending on the amplifier and connected speakers, confirm your set-up with the menu below.

This interactive menu page allows you to,

- Select the speakers you have connected.
- Adjust their audio volume and respective delay.
- Configure all the decoding values for the Dolby Digital and multichannel MPEG 2 audio for your speakers.
- Display the room with the position and number of speakers (including the subwoofer).
- Choose the size and quality of your speakers by clicking twice on each speaker (function available for Dolby Digital DVD discs only).
- Adjust the delay between the front and surround speakers, and for the central speaker according to its position compared to the front speakers.
- Test the setting by running a test sound (“pink noise”).

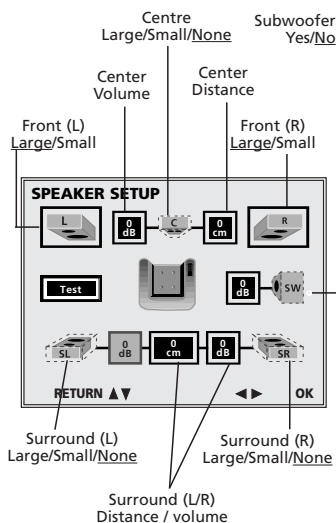
If you do not have the 5 recommended speakers (+1: the Subwoofer) for multichannel surround sound,

- Click twice on the icon corresponding to your missing speakers (subwoofer and/or surround speakers): they disappear from the screen. Multichannel sound will now be distributed across the remaining speakers. As you purchase more speakers, you can re-activate them one by one.

Speaker setting principle

From the “**AUDIO OPTIONS**” menu you can access all the settings. Follow these instructions:

1. Move to the items and press **ok** (15) to confirm and select the value to be adjusted and press **ok** (15) to confirm.
2. To save your settings when you have finished, press **return** key (20). (Otherwise, all the original settings are restored.)



⇨ Underlined item is the factory setting.

Speakers



Speaker icons display and size

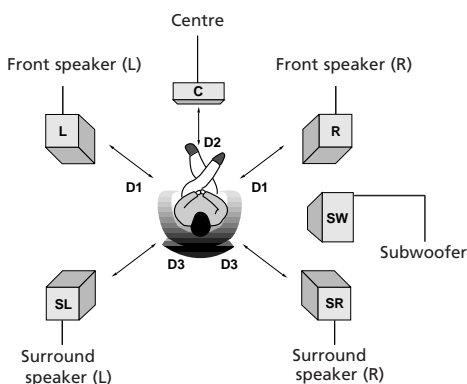
- If the speaker is connected, display the corresponding icon on-screen. If it is not connected, delete the icon.
- If the speaker is capable of reproducing low frequencies (<100 Hz), select the large icon.
- If the speaker provides poor quality at low frequencies (<100 Hz), select the smaller icon.
- If the subwoofer is not connected, select the large icon for the front speakers (LH/RH).

Note: The speaker icon size setting (large/small) has no effect on DVD discs in MPEG 2 Multichannel Audio.



Delay between speakers

- Delay settings allow you to adjust the virtual space between front and rear speakers. This means you can reproduce the sound space of a movie in your home.
- If the surround speakers or the central speaker cannot be installed at the same distance from the listening position as the front speakers, change the delay to obtain a better surround effect.
- If the distance (D2) from the listening position to the central speaker or the distance (D3) from the listening position to the surround speakers is greater than or equal to the distance (D1) from the listening position to the front speakers, no adjustments are required. Otherwise, adjust the settings according to the chart below:



Speaker	Delay time	Distance between D1 and D2/D3
Central speaker (D2)	1.3 ms	approx. 50 cm
	2.6 ms	approx. 100 cm
	3.9 ms	approx. 150 cm
	5.3 ms	approx. 200 cm
Surround speakers (D3)	5.3 ms	approx. 200 cm
	10.6 ms	approx. 400 cm
	15.9 ms	approx. 600 cm

Relative volume setting between speakers

When listening to the test signal, adjust the volume of the central, surround (LH), surround (RH) speakers and the sub-woofer so that their volume is equal to that of the front speakers.

To play the test signal

1. Select the "TEST" box and press **ok (15)** to confirm. The test signals will be played in each speaker in a clockwise direction.
2. When the audio signal is played on a speaker, select the appropriate volume level for that speaker from (-6 dB) to (0 dB)*.
3. Confirm the selected volume level with **ok (15)**. (Test signals stop.)

* 6dB corresponds to a power increase or reduction by 4 (3dB, by 2).

Rating limit

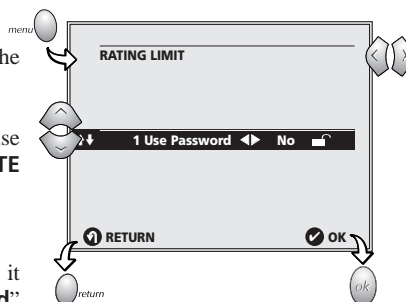


Rating (for DVDs)

This feature allows you to control the type of discs or programmes your family can watch. If some discs contain information, or scenes which exceed the rating limit you have set, they will not be played. There are up to 8 Rating limits. This function only works with DVDs that have been assigned a rating limit by the publisher and, therefore, it is disc-dependent.

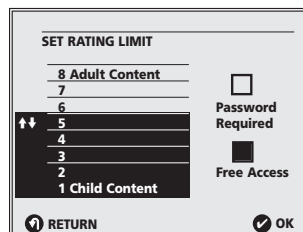
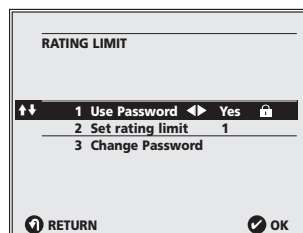
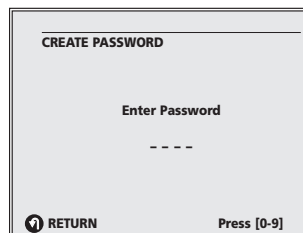
From the “**RATING LIMIT**” menu you can access all the settings. Follow these instructions:

1. Use $\langle \rangle$ arrows to select “**Yes**” if you want to use a password to lock the player. The “**CREATE PASSWORD**” screen appears.
2. Choose a personal 4-digit password and enter it with the number keys. The “**Re-enter Password**” screen appears to confirm the password. Enter your password again. The “**Rating limit**” screen appears.



Rating Limit selection

3. To select the “**Rating Limit**”, press key number **2**. The “**SET RATING LIMIT**” screen appears.
4. Set the Rating Limit you want with the arrows $\wedge \vee$ (**14**, **17**) and confirm with **ok** (**15**) to permit or prohibit playback of unsuitable scenes or adult programmes.
 - Limit “**8**” allows all titles to be played whereas limit “**1**” will be the most restrictive for children, for example. eg: if you select limit “**5**”, any disc or any scene containing a higher limit than your setting will not play unless the correct password is entered.
 - The closed padlock icon shows that the setting is now locked.
5. To exit **MAIN MENU**, press **return** key (**20**) twice.

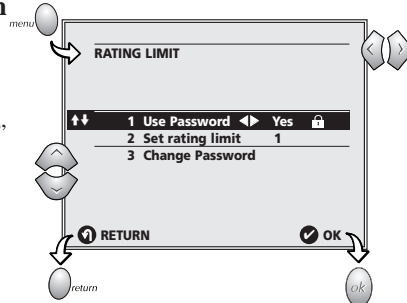


Rating limit



Player unlock and Rating Limit cancellation

1. Select “**Rating Limit**”.
2. Enter your 4-digit password.
3. Select “**No**” in the menu “**Use Password**” (line # 1).



Password change

1. Proceed with steps 1 to 4 as described on page 28.
2. Press key number **3 (24)**. The “**Change Password**” screen appears.
3. Enter your new 4-digit password. Confirm by re-entering your new 4-digit password again.
4. To exit “**MAIN MENU**”, press **return** key (**20**) **twice**.

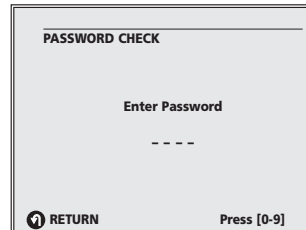
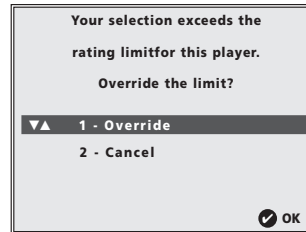


Overriding the Rating

For DVDs

If you have previously set a rating limit, playing some discs may display this screen:

1. Choose “**Override**” with the **^** **v** (**14, 17**) arrows and press **ok (15)** to confirm.
2. Enter your 4-digit password and press **ok (15)** to confirm.
 - Not all DVD discs include rating information that make the rating system work, though the text on their case may say that they are “**for adults only**”. Consequently discs without information will be played even if the player is locked with a code.
 - If you have forgotten your password, please check in the [Troubleshooting guide](#) at the end of this manual (page 33).



Universal remote control



Universal remote control setting

You have the option to set your remote control to control your TV set and/or video recorder. This enables you to control your video equipment with a single remote control.

1. Place the **dvd • vcr • tv** switch on the equipment you want to control.




Your DTH 5400
DVD



Video recorder



TV set

2. Look for the 3-digit code of your equipment's brand in the table of brands on the page 32 (Highlight it with a pencil, for example).
3. Hold the **menu** key (19) down and key in the 3-digit code corresponding to the make of your TV set. Depending on your TV set model, it may be necessary to try several of the proposed codes.
4. Release the **menu** key (19).
 - Try to operate the equipment by switching it **on / off** with the  key.
 - If it does not work, repeat from step 2 with another 3-digit code.



- *Not all TV and VCRs can be operated with this universal remote control.*
- *Try out which functions you can control with the remote control.*
- *Try to find the best code for your model (for brands with several codes).*
- ***If you have replaced the batteries of the remote control, perform the remote control set-up again.***

Universal remote control



To control other equipment

This remote control allows you to control your TV and video recorder. Make sure you set the remote control for the equipment you want to control. Even if the switch is in TV position, the **PLAY**, **STOP**, **REV**, **FWD**, and **PAUSE** keys control the DVD player.



TV Sound level.

TV Mute (sound off)

TV control
dvd vcr tv

Video control
dvd vcr tv

To switch your set on and off (stand-by).

Menu controls or special functions.

To select programmes.

To select the AV input.

To start the recording. (VCR only)

To start playback.

To rewind or fast forward.

To stop.

For a still picture on pause.

THOMSON
MULTI TV/VCR
61 443ms
NAVILIGHT
system



Universal remote control

Brand codes information

List of TV brands

	Code
Akai	.008, 020
Akari	.028
Bang & Olufsen	.009, 019
Blaupunkt	.023
Bluesky	.020
Brandt	.000, 001, 010, 020
Brionvega	.019
CGE	.016
Continental Edison	.004
Daewoo	.020, 025
Elbe	.005, 015, 023
Ferguson	.000, 001, 003, 004, 010
Finlux	.019, 020, 024
Fisher	.008
Formenti	.019
Goldstar	.020
Grundig	.016, 023, 024
Hitachi	.007
Imperial	.016
JVC	.013
Kneissel	.020, 025
Loewe	.020
Loewe opta	.019, 020
Luxor	.005
Metz	.013, 019, 023
Mitsubishi	.017, 018, 020
Mivar	.016
Nokia	.005
Nordmende	.000, 001, 010, 020
Orion	.005, 020
Panasonic/National	.005, 012, 026
Philips	.019-021
Phonola	.019-021
Pioneer	.001, 005
Polytron	.020, 027, 029
Radiola	.019-021
Radiomarelli	.019
Rex	.005
Saba	.000, 001, 005, 010, 019, 020
Salora	.005
Samsung	.020, 030
Sanyo	.008, 018
Schaub-Lorenz	.005, 016, 020
Schneider	.019-021
Seleco	.005
Sharp	.018, 022
Siemens	.023
Singer	.001, 002, 019
Sinudyne	.019
Sonitron	.008
Sony	.014, 018

Teleavia	.001, 010, 020
Telefunken	.000, 001, 002, 010, 020
Thomson	.000, 001, 002, 010, 020
Toshiba	.006, 016, 018, 024
Wega	.019
Yokan	.020, 025
Yoko	.020

List of Video Recorder brands

	Code
Aiwa	167, 168
Akai	103-107
Blaupunkt	108, 109, 162
Brandt	101, 102, 112, 156
Daewoo	140-147
Ferguson	101, 102, 112, 153, 155-157, 160
Fisher	135-137
Funai	130
Goldstar	123, 134
Grundig	161, 169, 170
Hitachi	110, 112, 122, 123
JVC	106, 110-113
Mitsubishi	148, 149
NEC	139
Nokia	103, 110, 135, 138
Nordmende	101, 102, 112, 154-158
Orion	124-129
Panasonic	108, 109, 162
Philips	161-166
Radiola	161-166
Saba	101, 102, 112, 153, 155-158
Samsung	133
Sanyo	119-121
Schneider	161-166
Sharp	131, 132
Sony	115-118
Teleavia	101, 112, 155, 156, 102
Telefunken	101, 102, 112, 155, 156-159
Thomson	101, 102, 112, 154, 156-158
Toshiba	110, 111, 114

If you do not find the brand of your video recorder or TV, you may succeed with codes from other brands.

All rights reserved with respect to code list modification.

Troubleshooting guide



Before requesting service (troubleshooting)

Symptom	Remedy	Page
No power?	Power <ul style="list-style-type: none"> • Correctly connect the AC Power Cord to an AC Outlet. • With the UK plug, check the fuse 	4-36
	Video and Audio <ul style="list-style-type: none"> • Turn on the TV set and your DVD player. • Check connections. • Make the correct input selection on the TV set. • Check the video connection settings. 	
There is no picture?	<ul style="list-style-type: none"> • Turn on the TV set and your DVD player. • Check connections. • Make the correct input selection on the TV set. • Check the video connection settings. 	5-10-11
There is no sound or it can hardly be heard?	<ul style="list-style-type: none"> • Make the correct audio input selection and volume adjustment on the TV set or hifi system (amplifier or AV selector). 	17-25-27
The remote control does not work?	Remote Control <ul style="list-style-type: none"> • Load the batteries and check that their polarities (+ and -) are correctly aligned. • Batteries are low. Replace with new ones. • Remove batteries and hold down one or more keys for several minutes to drain the microprocessor inside the remote to reset it. Reinstall batteries and try remote again. 	4
	<ul style="list-style-type: none"> • Point the remote control to the front of the player. • Operate the remote control within an 8 m range from the player. • Remove any obstacles between the remote control and the red LED on the player. 	7
	Playback <ul style="list-style-type: none"> • Check that the subtitle is recorded on the disc. • Subtitles disappear from the TV screen. See how to display subtitles. 	18
You have forgotten your password to change the rating limit?	<ul style="list-style-type: none"> • While in stop mode hold down STOP and PLAY keys of the player, in that order and simultaneously, for more than 3 seconds. The password lock will be released and all initial settings will return to the default values. Please note, that in this case you should switch the player OFF and then back ON again. You will see a choice of menu language to be re-set. After pressing the corresponding number key on the remote control, you will need to proceed with the other initial settings, as you did when you first installed the player. (set-up menu). 	28-29
The menu language is not the one you want?	<ul style="list-style-type: none"> • The menu language for your player has not been set during set-up. • Your preferred menu language on a DVD disc (if available) has not been set during set up. • The menu is not available in your language on the DVD disc. 	4-12
Audio (spoken) and / or subtitle language is not the one selected during the initial player set-up?	<ul style="list-style-type: none"> • If the audio or subtitle language is not available on the DVD disc, the language selected during initial player set-up will not be heard or seen. The disc's priority language (default language) is selected automatically. If you want another language, press audio "Ⓜ" key and subtitle "Ⓜ" key to select it temporarily for this disc (Or press menu during playback, if the disc has its own language selection menu). 	17-18





Disc playback recommendations

DVD discs.

When playing a Dual-layer DVD disc (DVD-9 or DVD-18 is indicated on the jacket of the disc), you may notice some disturbance or picture freezing for a few seconds during the layer change.

CD-R discs.

This unit can play most CD-R discs. However, depending on the condition of the CD-recorder, computer and the disc used, you may find that not all discs will play successfully.

When playing a CD-R disc, it is completely normal for the unit to take up to 30 seconds to recognize the disc before starting to play. If the disc is not recognized after a period of 30 seconds, remove the disc, and then insert it again. If after several trials, this disc cannot be recognized, make sure you have followed the recommendations below or try another type of disc.



Use CD-R data discs.

There are two main types of recordable CDs:

CD-R audio discs (for music only), which should be used when recording with Hifi CD-audio recorder, and CD-R data Discs, which should be used when recording with a personal computer.



Use no more than 630 Mb of recording, regardless of the actual capacity of the CD-R disc.



Use only 650 Mb (74 minutes) CD-R, and avoid the 700 Mb format (80 minutes recording time).

Some studies show that blue-color CD-Rs may sometimes give lower playback quality than other-color CD-Rs.



Never use CD-RW (recordable/rewritable) discs.

These CDs are designed for multiple use, and are oriented to computer use rather than music. Playback quality with these discs can vary with the equipment used and many other technical factors.



Use a completely brand new CD-R disc (which has not been recorded at all).



Close all other applications on the computer to ensure reliable CD-R disc recording.



Use a good quality CD-R recording program.



Make your recordings in a single, one shot recording session, using the option "write at once"

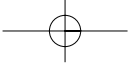
This session should be the first session recorded on a blank CD-R disc. (Your home computer allows CD-R recording in several "passes" or sessions, and the computer can play back these individual sessions without difficulty.

With a DVD player, however, there is just one play list, and the DVD player only plays what was recorded in that first play list. You should therefore make sure you can record all the tracks you intend recording in a single session.)



Do not under-record.

If you make just a few recordings on your disc the DVD player will take a long time searching for and locating these few tracks.



Disc playback recommendations



“Close the complete disc” at the end of recording.

This means that no more recording can be added, later on, on this disc. Your home computer will only do this if you have ticked the right option in your recording program, at the end of the recording session.

CD-R MP3 discs.

In the case of CD-R MP 3 discs, please follow all the recommendations for CD-R above, plus the comments below:



Your MP3 files should be ISO 9660 or JOLIET format.

ISO 9660 format and Joliet MP3 files are compatible with Microsoft’s DOS and Windows, and with Apple’s Mac. These two formats are the most widely used.



When naming your MP3 files do not exceed 8 characters, and place “.mp3” as the file extension.

General name format of: Title.mp3. When composing your title ensure that you use 8 characters or less, have no spaces in the name, and avoid the use of special characters including: (, / , \ , = , +) .



Use a decompression transfer rate of at least 128 kb/sec (kilobytes/second) when recording MP3 files.

Sound quality with MP3 files basically depends on the rate of compression/decompression you choose. Getting audio CD quality sound requires an analog/digital sampling rate, that is conversion to MP3 format, of at least 128 kb/sec and up to 160 kb/sec. However, choosing higher rates, like 192 kb/sec or more, only rarely give even better sound quality. Conversely, files with sampling rates below 128 kb/sec will not be played properly.



Do not try recording copyright protected MP3 files.

Certain “secured” files are encrypted and code protected to prevent illegal copying. These files are of the following types: Windows Media™ (registered trade mark of Microsoft Inc) and SDMI™ (registered trade mark of The SDMI Foundation). You must not copy such files.



Your DVD player only accepts one level of file directory.

Consequently you must choose:

- either to save all your MP3 recording files at the root of the disc;
- and/or create folders in the directory for each artist or music type (e.g. classical, rock, jazz, etc)

This should be organized as suggested below:



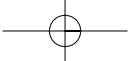
And so on.



Important: The above recommendations cannot be taken as a guarantee that the DVD player will play MP3 recordings, or as an assurance of sound quality. You should note that certain technologies and methods for MP3 file recording on CD-Rs prevent optimal playback of these files on your DVD player (that is degraded sound quality and even, in some cases, inability of the player to read the file or files).

Note: The above recommendations were updated in April 2001.





Technical data



Power requirements: Power consumption:	AC 230 V, 50 Hz 15W (approx. 3,1 W when power is OFF)
Weight: Dimensions: Operating temperature range: Operating humidity range: Disc formats:	2,8 kg 430 x 79 x 240 mm (excluding protrusions) + 5 to + 35° C 10 to 75% (no condensation) (1) DVD-Video disc: PAL and NTSC 12/8 cm single-sided, single-layer 12/8 cm single-sided, double-layer 12/8 cm double-sided, single-layer 12/8 cm double-sided, double-layer (2) Compact disc Audio 12/8 cm disc (3) Video CD: PAL and NTSC 12/8 cm disc (4) S-Video CD (5) most CD-Rs
TV set system:	PAL 50 - 60 Hz (PAL 625/50, PAL 525/60), NTSC or PAL 60 Hz capable TV set is required to play back NTSC discs.
Audio signal output characteristics:	1) Frequency response: DVD linear audio 48 kHz sampling: 4 Hz to 22 kHz DVD linear audio 96 kHz sampling: 4 Hz to 44 kHz CD Audio: 4 Hz to 20 kHz * (2) S/N ratio: 110dB (A wtd) * (3) Dynamic range: DVD linear audio: 100dB CD audio: 100dB * (4) Wow and flutter: below measurable limits * (5) Total harmonic distortion: less than 0.004%
Pickup:	Wave length: 655 nm, Laser power: CLASS 2 2 Laser diodes

* Nominal Specification.

- THOMSON Multimedia reserves the right to change the specifications without notice.
- Weight and dimensions are approximate.

Dear customer,

Please note that when this product will reaches the end of its service life, you will need to take responsibility for any special handling needed in its disposal.

HELPLINE THOMSON

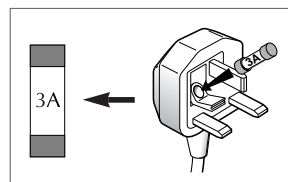
You can contact THOMSON by dialling: **0845 601 3093**
(For Great-Britain, all calls will be charged at local rate)
www.thomson-europe.com

The fused plug (for UK USERS only)

A fused plug must be fitted with a 3A fuse approved by ASTA or BSI to BS 1362 and fuse covers must always be securely remounted.

If your set does not work, the fuse may be blown.

The key (power stand-by) on the remote control does not completely disconnect the player from the mains supply, but switches operating power on and off.



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