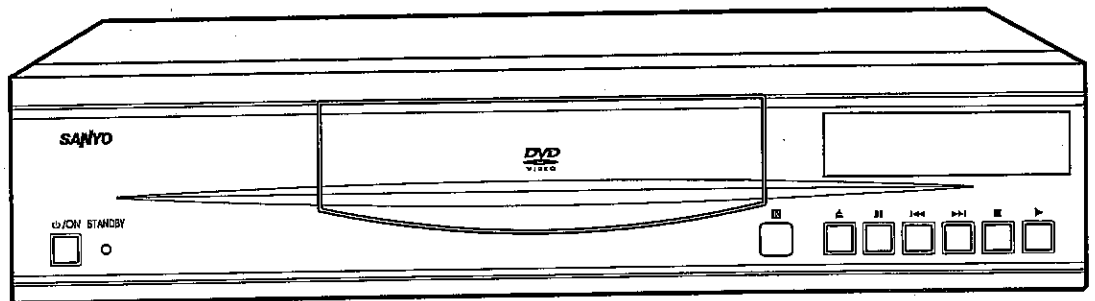
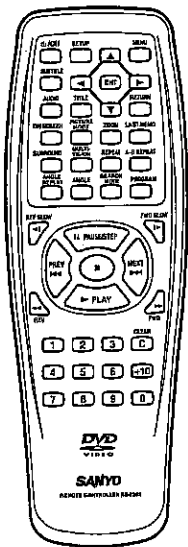


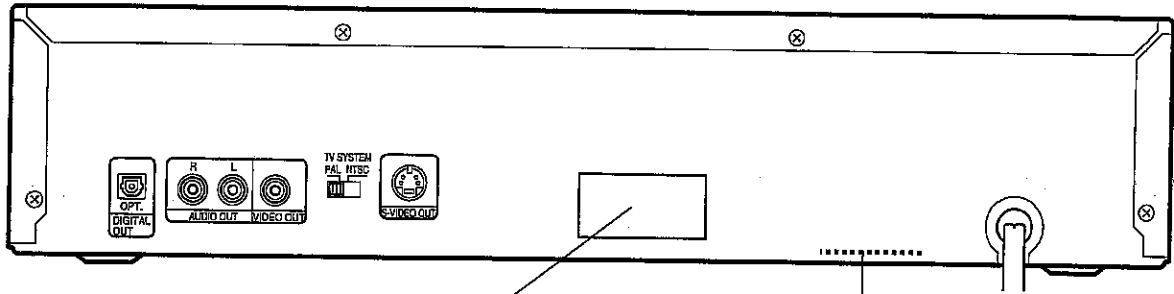
INSTRUCTION MANUAL

DVD-7201

DVD Player



PRECAUTIONS



CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT

CAUTION – USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED IN THE OPERATING INSTRUCTIONS MAY RESULT IN HAZARDOUS RADIATION EXPOSURE. THE DVD PLAYER SHOULD NOT BE ADJUSTED OR REPAIRED BY ANYONE EXCEPT PROPERLY QUALIFIED PERSONNEL.

<p>CAUTION – INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.</p> <p>ADVARSEL – USYNLIG LASER STRÅLING VED ÅBNING, NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION, UNDGÅ UDSÆTTELSE FOR STRÅLING.</p> <p>VARNING – OSYNLIG LASER STRÅLNING NÅR DENNA DEL ÄR ÖPPNAD OCH SPÄRR ÄR URKOPPLAD. STRÅLEN ÄR FARLIG.</p> <p>VORSICHT – UNSICHTBARE LASERSTRAHLUNG TRITT AUS, WENN DECKEL GEÖFFNET UND WENN SICHERHEITSPERRUNG ÜBERBRÜCKT IST. NICHT, DEM STRAHL AUSSETZEN.</p> <p>VARO – AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALLTIINA NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.</p>
--



- The apparatus shall not be exposed to dripping or splashing.
- Do not use where there are extremes of temperature (below 5°C or exceeding 35°C) or where direct sunlight may strike it.
- Because of the DVD player's extremely low noise and wide dynamic range, there might be a tendency to set the volume on the amplifier unnecessarily high. Doing so may produce an excessively large output from the amplifier which could damage your speakers.
- Sudden changes in the ambient temperature may cause condensation to form on the optical lens inside the unit. If this happens, take out the disc, leave the unit for about 1 hour, and then proceed to operate.
- When carrying the unit, be sure to remove a disc which may be inside and turn the power off. Wait at least 10 seconds, then unplug the mains lead from the AC outlet. Carrying the unit with a disc inside may damage the disc and/or the unit.
- Do not install this equipment in a confined space, such as a book case or built in cabinet.
- The DVD player is not completely disconnected from the mains when the ϕ /ON button is set to the ϕ position.
- The player is set to the standby mode automatically after approximately 30 minutes have elapsed under the complete stop mode.

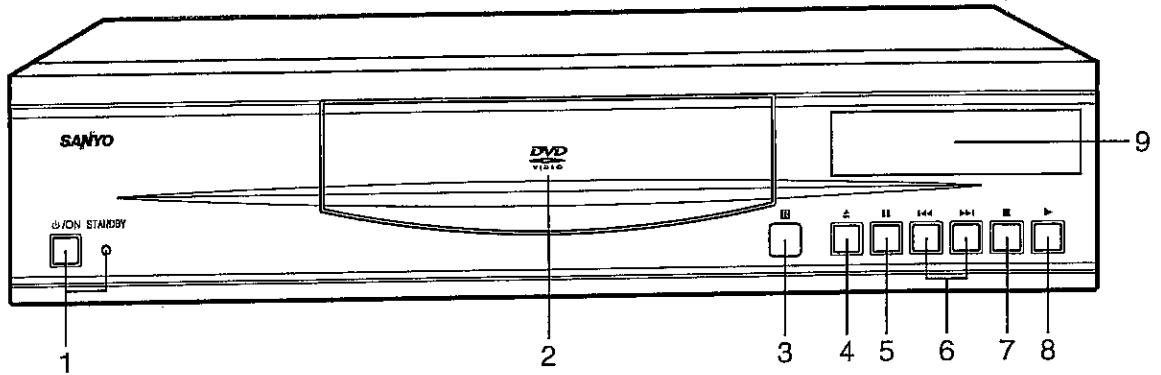
Important Information:

To connect this DVD player to a TV, TV must have a set of Audio/Video composite input sockets. You cannot use an RF input socket or aerial terminal to connect this DVD player.

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 and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

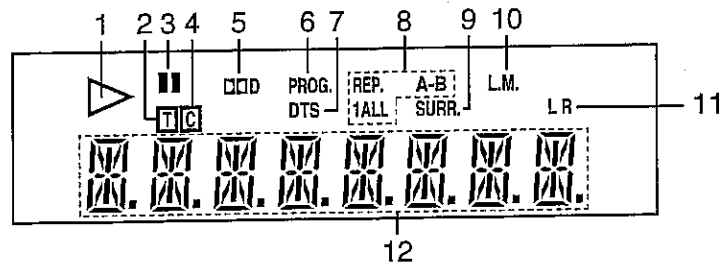
CONTROLS

Front panel



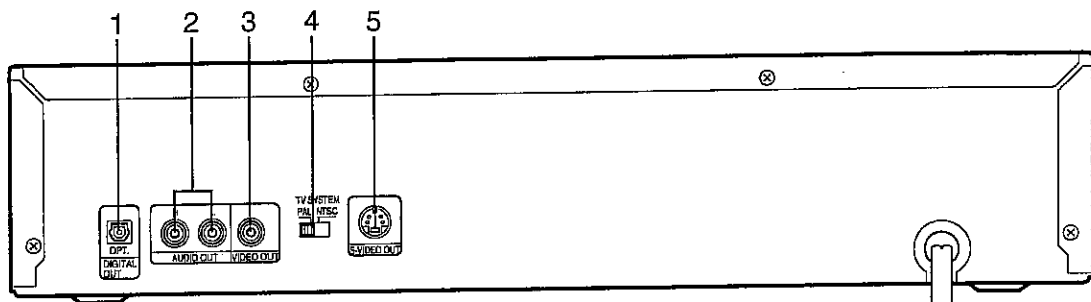
- | | |
|---|--|
| 1. Power button/Standby indicator (⏻/ON, STANDBY) | 6. Skip/Next/Previous buttons (⏮, ⏪, ⏩, ⏭) |
| 2. Disc tray | 7. Stop button (■) |
| 3. Remote sensor (IR) | 8. Play button (▶) |
| 4. Open/Close button (⏏) | 9. Display |
| 5. Pause/Step button (⏸) | |

Display



- | | |
|---|--|
| 1. Play indicator (▶) | 8. Repeat mode indicators (REP., 1, ALL, A-B) |
| 2. Title and Track indicator (T) | 9. Surround mode indicator (SURR.) |
| 3. Pause indicator (⏸) | 10. Last memory indicator (L.M.) |
| 4. Chapter indicator (C) | 11. Audio channel indicator (L, R) |
| 5. Dolby Digital indicator (Dolby Digital logo) | 12. Message or number indicators
(Title, chapter, track, playing time or other information) |
| 6. Programme indicator (PROG.) | |
| 7. DTS indicator (DTS) | |

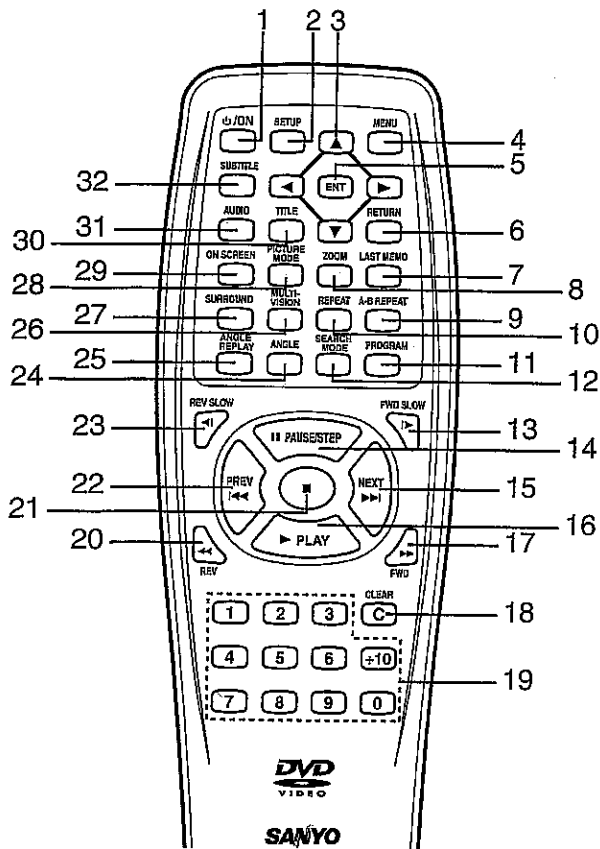
Rear panel



- | | |
|--|--|
| 1. Optical digital output socket (DIGITAL OUT) | 4. TV system select switch (TV SYSTEM) |
| 2. Audio output sockets (AUDIO OUT) | 5. S-Video output socket (S-VIDEO OUT) |
| 3. Video output socket (VIDEO OUT) | |

REMOTE CONTROL

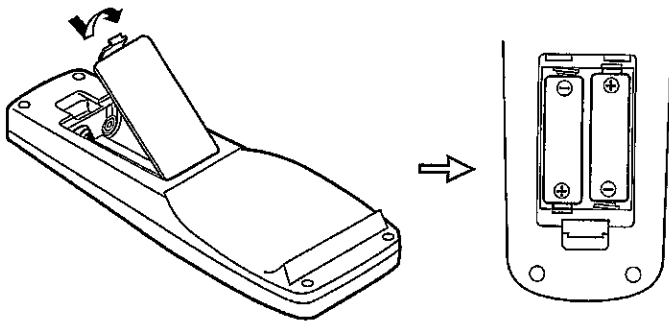
Controls



1. Power button (ON/OFF)
2. Setup button (SETUP)
3. Directional arrow buttons (▲, ►, ▼, ◀)
4. Menu button (MENU)
5. Enter button (ENT)
6. Return button (RETURN)
7. Last memory button (LAST MEMO)
8. Zoom button (ZOOM)
9. A-B repeat button (A-B REPEAT)
10. Repeat button (REPEAT)
11. Programme button (PROGRAM)
12. Search mode button (SEARCH MODE)
13. Forward slow button (FWD SLOW ►)
14. Pause/Step button (|| PAUSE/STEP)
15. Skip/Next button (NEXT ►►)
16. Play button (► PLAY)
17. Forward button (►► FWD)
18. Clear button (CLEAR)
19. Number buttons (1 - 9, 0, +10)
20. Reverse button (◀◀ REV)
21. Stop button (■)
22. Skip/Previous button (PREV ◀◀)
23. Reverse slow button (REV SLOW ◀)
24. Angle button (ANGLE)
25. Angle replay button (ANGLE REPLAY)
26. Multi-vision button (MULTI-VISION)
27. Surround sound button (SURROUND)
28. Picture mode button (PICTURE MODE)
29. On screen display button (ON SCREEN)
30. Title button (TITLE)
31. Audio button (AUDIO)
32. Subtitle button (SUBTITLE)

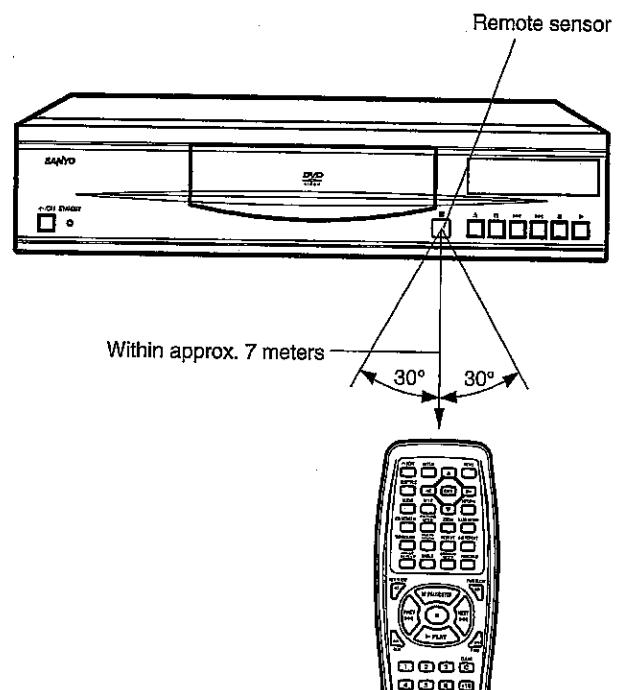
Inserting batteries

Install two "AA/R6/SUM-3" batteries (not supplied).



Note:
Remove the batteries if the remote control is not to be used for a month or more. Batteries left in the unit may leak and cause damage.

Remote control range



CONNECTIONS

Selecting TV system

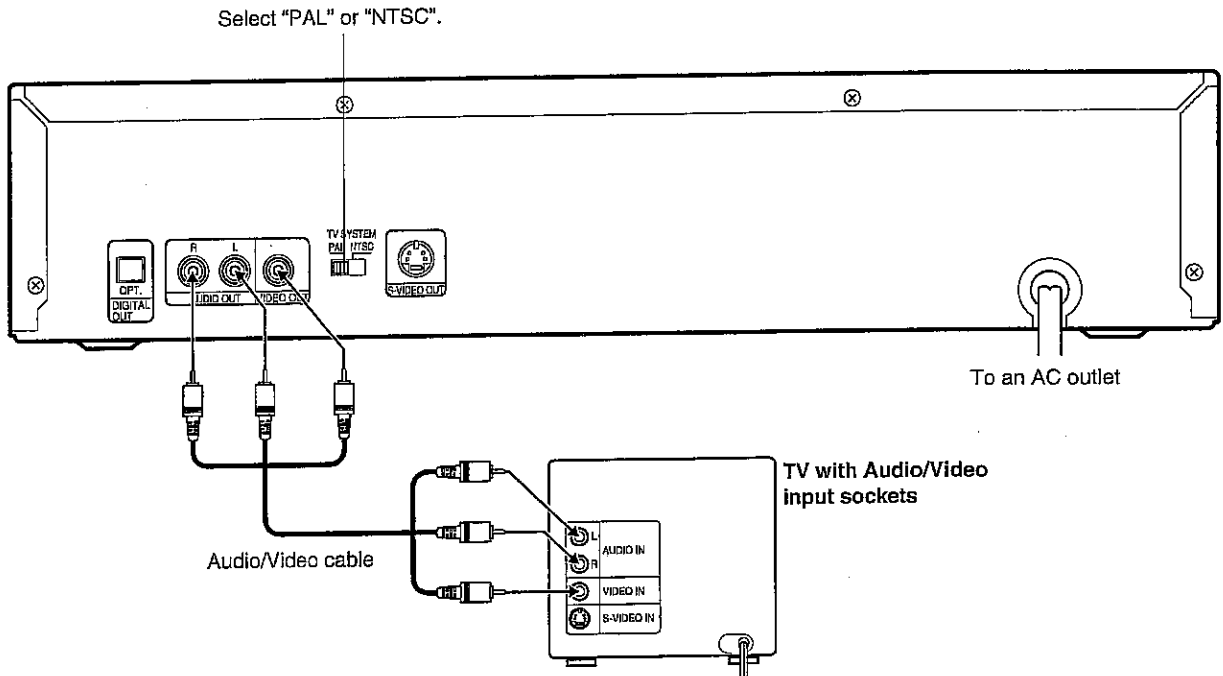
Before connecting, be sure the TV SYSTEM switch (rear of the unit) setting corresponds with your local TV system (PAL or NTSC).

Note:

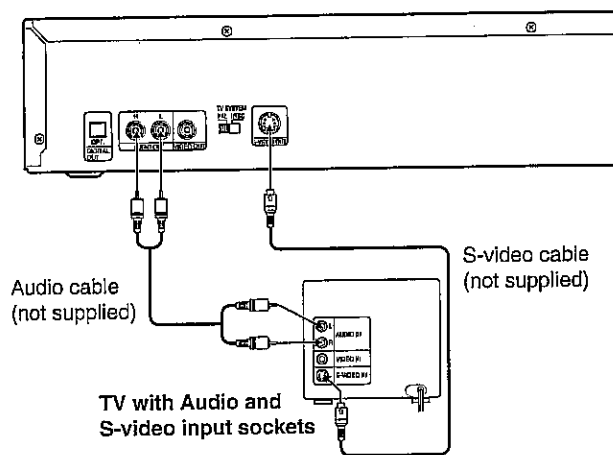
- Do not connect the DVD player to a VCR directly. The playback picture will be distorted because DVD discs are copy protected.
- When you connect the DVD player to your TV and other equipment, be sure to turn off the power and disconnect all of the equipments from the wall outlet until all the connections have been made.
- Please refer to the instruction manuals for the components that you are connecting (TV, AV amplifier, etc.).

Connecting to a TV with the Audio/Video cable

This is the easiest way to hook up the DVD player.



Connecting to a TV with an Audio and S-video cables



If your TV has a S-video input socket, connect the DVD player as shown in figure. (The VIDEO OUT socket connection is not necessary.) You can enjoy clearer picture playback.

As an alternative to using the TV's speakers, the sound can also be played back through a HiFi system or an amplifier.

Connecting to a HiFi system with analog two-channel stereo sound

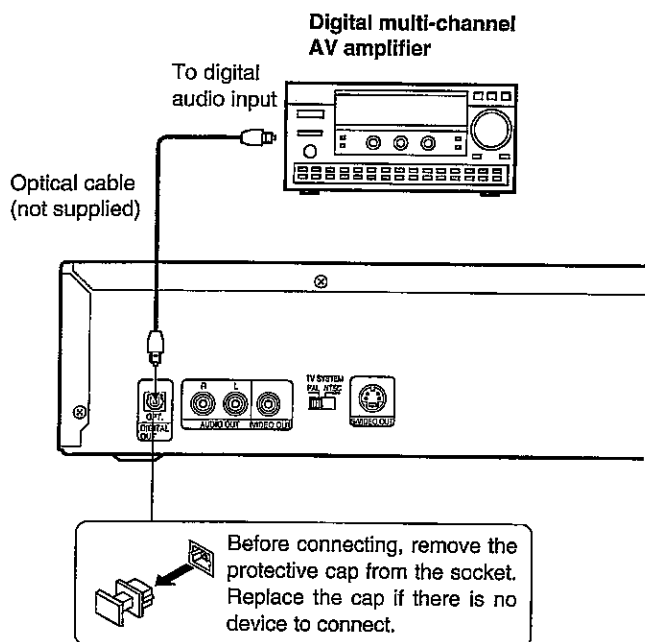
Connect an audio cable (not supplied) to the AUDIO OUT sockets of the DVD player and to the appropriate sockets of the HiFi system.

- The AUDIO OUT sockets can also be used for connection to an AV system with Dolby Pro Logic decoder.

Note:

To enjoy Dolby Pro Logic sound, select "DOLBY DIGITAL: LPCM" in "Digital out" under "INITIAL SETTINGS". (See Page 14.)

Connecting to a digital multi-channel AV amplifier



The digital multi-channel sound of a DVD can best be decoded and played with a multi-channel AV amplifier (Dolby Digital decoder or MPEG2 decoder).

The AV amplifier has to be able to process the DTS audio signal in order to play a DVD with DTS. If it cannot, then you will not be able to hear the DVD.

Note:

- To enjoy Dolby Digital sound, select "DOLBY DIGITAL: BITSTREAM" in "Digital out" under "INITIAL SETTINGS". (See Page 14.)
- To enjoy MPEG2 sound, select "MPEG: BITSTREAM" in "Digital out" under "INITIAL SETTINGS".
- To enjoy DTS sound, select "DTS: ON" in "Digital out" under "INITIAL SETTINGS".





Manufactured under license from Dolby Laboratories.

"Dolby", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories.

"DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.

PLAYABLE DISCS

The following types of discs can be played on this unit.

Disc type and logo mark		Recorded content	Disc size	Maximum playing time
DVD Video		Audio + Video	12 cm	Approx. 4 hours (Single sided disc) Approx. 8 hours (Double sided disc)
			8 cm	Approx. 80 minutes (Single sided disc) Approx. 160 minutes (Double sided disc)
Video CD	 	Audio + Video	12 cm	74 minutes
			8 cm	20 minutes
Music CD		Audio	12 cm	74 minutes
			8 cm	20 minutes

Region number

Region number (Regional restriction code) is built-in to the unit and DVD discs.

There is a region number on the rear of the unit.

The same region number or region number "ALL" of DVD discs can be used on this unit.

DVD disc

There are the marks on some DVD disc package.

Examples:

 Multiple Languages

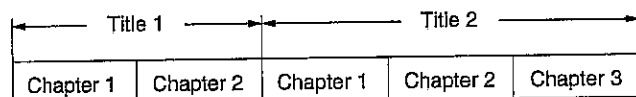
 Multi-language subtitles

 Multi-Angle

 Multi-Aspect

 Region number

DVD discs are divided into titles, and the titles are sub-divided into chapters.



Video CD/Music CD disc

Video CD and Music CD discs are divided into tracks.

Track 1	Track 2	Track 3	Track 4	Track 5
---------	---------	---------	---------	---------

Note:

- Only the above types of discs can be played on this unit. DVD-ROM, CD-ROM, SVCD, CVD, etc. cannot be played.
- This unit can play back the CD-R/RW that have recorded music data or MP3 files as well. However, some CD-R/RWs can not be played back depending on the recording conditions.
- The CD-R/RW that has no music data or non-MP3 files can not be played back.
- This unit is to be used exclusively with the PAL or NTSC colour system. SECAM system discs cannot be used with this unit.

Notes on handling discs

- Do not expose the disc to direct sunlight, high humidity or high temperatures for extended periods of time.
- Discs should be returned to their cases after use.
- Do not apply paper or write anything on the disc surface.
- Handle the disc by its edge. Do not touch the playing surface (glossy side).
- Fingerprints and dust should be carefully wiped off the playing surface of the disc with a soft cloth. Wipe in a straight motion from the centre to the outside of the disc.
- Never use chemicals such as record cleaning sprays, antistatic sprays or fluids, benzene or thinner to clean discs.

BASIC OPERATION

Important note:

- This instruction manual explains the basic instruction of this DVD player using the remote control unit.
- Some DVD or Video CD discs have different functions that may not be explained in this instruction manual. You may be needed extra instructions. In this case, please follow the instructions displayed on the TV screen or jacket or case of the disc.
- "⊘" may appear on the TV screen during operation. This icon means that the function is not available on the disc now.

Preparations

- Turn on the TV and select the channel for the DVD player. Select the playback picture size according to the aspect ratio of the TV. (See "Display" under "INITIAL SETTINGS" on Page 13.)
- Turn on the HiFi system, AV amplifier, etc. and select the audio input for the DVD player.

Note:

- Do not touch the disc tray while it is moving.
- Never place anything except a disc on the disc tray. Foreign objects can damage the unit.
- Do not apply excessive force to the disc tray.
- Discs must be placed on the disc tray one at a time.
- To open or close the disc tray, be sure to use the ▲ button (Main unit). Do not press the disc tray with your hand.

When operation buttons are pressed, that operation is displayed on the TV screen. The display turns off after several seconds.

1. Press the ⊘/ON button.
 - The STANDBY indicator turns off and the DVD player turns on.
 - "SANYO" logo appears on the TV screen.
 - "NO DISC" appears on the display.
2. Press the ▲ button.
 - "OPEN" appears on the display and the disc tray opens.
3. Place the disc with the label facing up on the disc tray.

12 cm CD



8 cm CD



4. Press the ▲ button again to close the disc tray.
 - "READING" appears on the display.

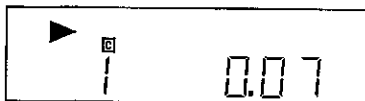
Note:

Some discs may start play automatically.

Starting play

Press the ► PLAY button.

Example:



Note:

If the disc is loaded with the label side downward (and it is a single sided disc), or if a badly scratched disc is loaded, "NO DISC" (or "NO PLAY") appears. If this occurs, load the disc correctly or replace the disc.

If a menu appears on the TV screen...

Press the ▲, ►, ▼ or ◀ button (or the number buttons), then press the ENT button to select the desired menu. Playback of the selected menu will start.

Note:

For more details, please refer to the jacket or case of the disc.

Stopping play

- Press the ■ button once. When you press the ► PLAY button, play starts automatically from the point where you stopped.

Note:

Some discs may not resume play.

- Press the ■ button twice. The player stops completely. When you press the ► PLAY button, play starts from the beginning of the disc.

To turn the power off, press the ⊘/ON button again. The STANDBY indicator lights.

Continuing play from where you stopped watching (LAST MEMORY PLAY) [DVD]

1. During play, press the LAST MEMO button at the point from which you want to resume play later. "L.M." appears on the display. Play stops automatically.
2. Remove the disc or turn off the power.
3. Load the disc (and press the ► PLAY button), or turn on the power. "Last Memory Play?" screen appears.

Last Memory Play?

Yes

No

Clear ... The memory is released.

4. Press the ▲ or ▼ button to select "Yes".
5. Press the ENT button. Play resumes from the point where you stopped. (If desired, press the LAST MEMO button again.)

Note:

- Points on up to 5 discs can be memorized.
- The Last Memory Play mode may not work correctly with some discs.

What is "PBC"?

"PBC" is an abbreviation for "Playback Control" that refers to control codes prerecorded on Video CDs.

During playback of Video CD with PBC, "PBC" appears on the display.

To lock the disc tray

You can lock the disc tray to prevent misuse of young children.

While the disc tray is opened, press the ▲ button until "LOCKED" appears on the display.

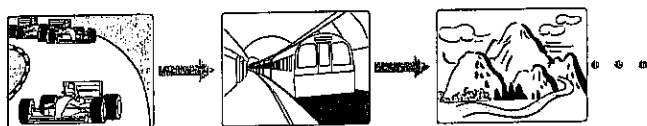
- The ▲ button will not function.

To release this mode, press the ▲ button until "UNLOCKED" appears.

VARIOUS PLAYING FUNCTIONS

"⊘" may appear on the TV screen during operation. This icon means that the function is not available on the disc now.

Chapter (Track) skip



Skipping forward

Press the NEXT ►► button during play to skip to the next chapter (or track). A chapter (or track) is skipped each time the button is pressed.

Skipping back

Press the PREV ◄◄ button during play to skip back to the beginning of the chapter (or track) currently play. Press the button again immediately to skip back to the beginning of the previous chapter (or track).

Note:

You can skip only through the chapters, not over the title on the DVD disc.

Title search [DVD]

1. Press the SEARCH MODE button once during play or in the stop mode. "TITLE SEARCH..." screen appears.
2. Press the number button(s) to enter the title number. The selected title playback starts.

Example:

To select No. 3, press 3.

To select No. 10, press +10, then 0.

To select No. 24, press +10, +10, then 4.

Chapter search [DVD]

1. Press the SEARCH MODE button twice during play. "CHAPTER SEARCH..." screen appears.
2. Press the number button(s) to enter the chapter number. The selected chapter playback starts.

Track search [Video CD] [CD]

Press the number button(s) during play or in the stop mode. Play starts from the selected track.

Time search

[DVD]

1. Press the SEARCH MODE button three times during play. "TIME SEARCH..." screen appears.
2. Press the number button(s) to enter the time.

Example:

20 minutes 5 seconds Press 2, 0, 0 then 5.

1 hour 4 minutes 35 seconds Press 1, 0, 4, 3 then 5.

Note:

- Do not use the +10 button.
- If you made a mistake, press the CLEAR button.

3. Press the ► PLAY button. Play starts from the searched time.

[Video CD] [CD]

1. Press the SEARCH MODE button once during play. "TIMESEARCH..." screen appears.
2. Press the number button(s) to enter the time.
3. Press the ► PLAY button. Play starts from the searched time in the selected track.

Note:

By repeating steps 1 - 3 in the stop mode, play starts at the searched time in the disc.

Fast play

Press the ►► FWD or ◄◄ REV button repeatedly to select the fast speed forward or reverse play.

[DVD] [Video CD]

"FF1 ►►", "FF2 ►►", "FF3 ►►" or "FR1 ◄◄", "FR2 ◄◄", "FR3 ◄◄"

[CD]

"FF1 ►►", "FF2 ►►" or "FR1 ◄◄", "FR2 ◄◄"

Press the ► PLAY button to return to normal play.

Slow-motion play

[DVD] [Video CD]: Forward slow play, [DVD]: Reverse slow play

Press the FWD SLOW ► or REV SLOW ◄ button repeatedly to select the forward or reverse slow speed play.

"SF1 ►", "SF2 ►", "SF3 ►" or "SR1 ◄", "SR2 ◄", "SR3 ◄"

Press the ► PLAY button to return to normal play.

Note:

The sound is muted during fast play or slow-motion play in DVD and Video CD.

Still picture (Pause)

[DVD] [Video CD]: Still picture mode, [CD]: Pause mode

Press the || PAUSE/STEP button during play. "||" appears on the display.

Press the ► PLAY button to resume normal play.

Note: The sound is muted.

Frame by frame advance play [DVD] [Video CD]

Press the || PAUSE/STEP button during still play. Each time the button is pressed, the picture advances one frame.

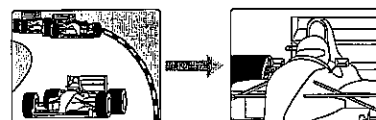
Press the ► PLAY button to resume normal play.

Note:

- The sound is muted.
- Frame play is operated forward only.

Zoom feature [DVD] [Video CD]

1. Press the ZOOM button during normal, slow or still play. The central part of the picture is magnified.



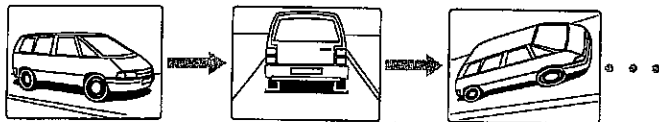
- Each time you press the ZOOM or RETURN button, the picture zooms in or out ("Zoom +15" ~ "Zoom -15").
- Each time you press the ▲, ►, ▼ or ◄ button, the picture moves from side to side, up and down.

2. To return to normal, slow or still play, press the CLEAR button.

Note:

Some discs may not work Zoom feature.

Viewing from a desired camera angle (Multi-Angle) [DVD]



Some DVD discs may contain scenes which have been shot simultaneously from a number of different camera angles. The jacket or case of discs that are recorded with angles will be marked.

Example:



Note: The recorded angles differ depending on the disc used.

1. Play the disc that is recorded with angles.
2. Press the ANGLE button repeatedly until the desired angle appears.

Example:



Angle replay [DVD]

During Multi-angle play screen, press the ANGLE REPLAY button. The player skips back to last approximately 10 seconds, changes it to the next camera angle and plays it, and continues play. (If desired, press the button again.)

Normal repeat play

Press the REPEAT button during play (or programmed play) of the title (or track) you want to repeat.

Each time the button is pressed, the repeat mode changes as follows.

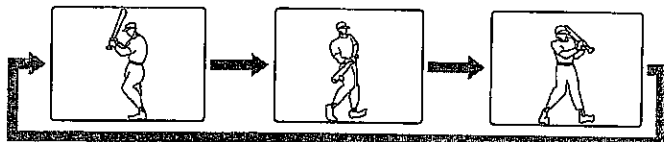
[DVD]

- ↶ Title (REP. 1): Repeat of title being played
- ↶ Off: Normal play mode

[Video CD] [CD]

- ↶ 1 (REP. 1): Repeat of track being played
- ↶ All (REP. ALL): Repeat all tracks
- ↶ Off: Normal play mode

Designated range repeat play (A-B Repeat)



1. Press the A-B REPEAT button during play at the beginning of the section you want to repeat (Point A). "↶ A-" appears on the screen. "REP. A-B" blinks on the display.
2. Press the A-B REPEAT button again at the end of the section (Point B). "REP. A-B" remains lit on the display. The section between points A and B is played repeatedly.

Note:
For Video CD, wait 2 seconds at least before pressing the button.
3. To return to normal play, press the A-B REPEAT button again.

Note:

Normal repeat play or A-B repeat play mode may not work correctly with some discs.

Return button (RETURN) for Video CD

Normally, it returns to the previous menu during play when the RETURN button is pressed.

Note:

The operation differs according to the content of the Video CD.

Programmed play [Video CD] [CD]

Up to 32 selections can be programmed.

Programming procedure

1. Press the PROGRAM button in the stop mode. "PROGRAM" screen appears. "PROG." blinks and "Pr. 1" appears on the display.

2. Press the number button(s) to select the track number.

Example:

To select track No.3, press 3.

To select track No.10, press 1, then 0.

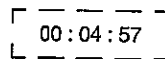
To select track No.24, press 2, then 4.

Note:

- If you made a mistake, press the CLEAR button.
 - Do not use the +10 button.
 - Press the PROGRAM button to quit this menu.
3. Press the ENT button. The highlighted box automatically moves to the next programme number.

Example:

PROGRAM		Track Time
#	Track	
1	02	00 : 04 : 57
	--	
	--	
	--	
	--	
	--	
	--	



Total programmed time

4. Repeat step 2 - 3 above to select another track.
5. Press the ► PLAY button to start play. "PROG." remains lit. When all programmed selections have played, the player stops automatically.
 - The programme contents are retained in memory.

To clear the programme one by one

In the programming mode, press the ▲ or ▼ button to select the programme number. Then press the CLEAR button.

To clear all the programmes

In the programming mode, press the ■ button.

To change the programme

1. In the programming mode, press the ▲ or ▼ button to select the programme number.
2. Press the number button(s) to select the track number to be replaced.
3. Press the ENT button.

To use the programme again with the same contents

Press the PROGRAM button. The previous programme contents appears on the screen. Then press the ► PLAY button.

Selecting a title menu [DVD]

1. Press the TITLE button. The title menu appears.

Note:

Press the TITLE button again to resume play from the scene when the TITLE button was first pressed.

2. Press the ▲, ►, ▼ or ◀ button (or the number buttons) to select the desired title then press the ENT button. The selected title play starts.

Selecting a DVD menu [DVD]

1. Press the MENU button. The main menu screen appears.

Note:

Press the MENU button again to resume play.

2. Press the ▲, ►, ▼ or ◀ button (or the number buttons) to select the desired menu then press the ENT button. The selected menu play starts.

Note:

- The selecting a title menu or a DVD menu operation may differ depending on the disc used.
- Selecting a title menu or a DVD menu may not be possible on some discs.

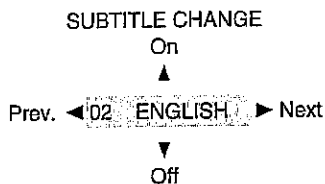
Selecting subtitle language [DVD]

This operation works only with discs on which multiple subtitle languages are recorded.

1. Press the SUBTITLE button during play. "SUBTITLE CHANGE" screen appears.

2. Press the ▲ button to select "On". The language is highlighted.

Example:



3. Press the ► or ◀ button to select the desired subtitle language then press the SUBTITLE button.

Note:

- In some cases, the subtitle language is not changed to the selected one.
- When a disc supporting the closed caption is played, the subtitle and the closed caption may overlap each other on the TV screen. In this case, turn the subtitle off.
- When the desired language is not selected even if the button is pressed, the language is not available on the disc.
- When the power is turned on or the disc is replaced, select the subtitle language again.
- If the subtitle language is not necessary, select "Off".

Selecting audio soundtrack language (Multi-Language) [DVD]

This operation works only with discs on which multiple audio soundtrack languages are recorded.



1. Press the AUDIO button during play.
2. Press the AUDIO button repeatedly until the desired language appears on the screen.

Example:

AUDIO CHANGE 04 FRENCH

Note:

- When the desired language is not selected even if the button is pressed, the language is not available on the disc.
- When the power is turned on or the disc is replaced, select the language again.
- If the language is not recorded on the disc, only the available language on the disc will be heard.

Changing the audio channel output [Video CD]

During Video CD play, press the AUDIO button to select an audio channel. LEFT MONO (L) → RIGHT MONO (R) → STEREO → LEFT MONO (L) ...

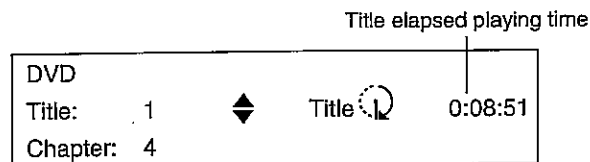
Note: You cannot change an audio channel from the optical DIGITAL OUT socket.

Selecting on-screen information

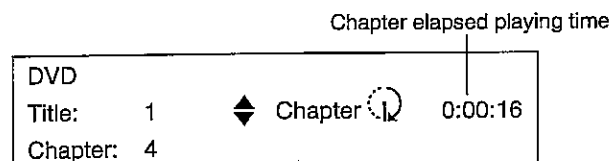
Press the ON SCREEN button repeatedly to show the disc information (Title, Chapter, Title elapsed playing time, Language, etc.).

Example for DVD:

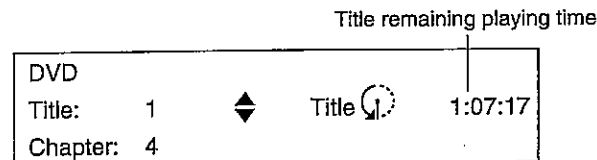
1. Press the ON SCREEN button.



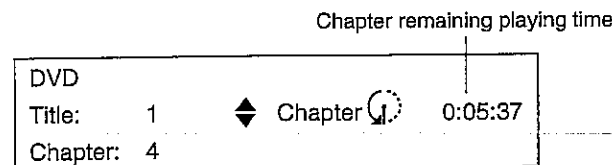
By pressing the ▲ or ▼ button, the title or chapter information changes.



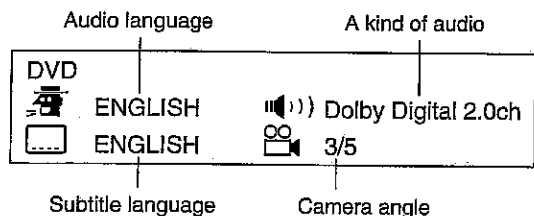
2. Press the ON SCREEN button.



By pressing the ▲ or ▼ button, the title or chapter information changes.



3. Press the ON SCREEN button.

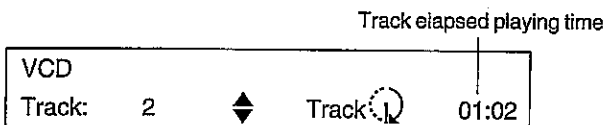


Note:

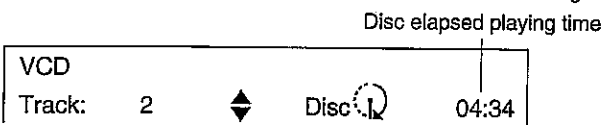
The ▲ or ▼ button can be used only on the active screen while "ON SCREEN" is working.

Example for VCD:

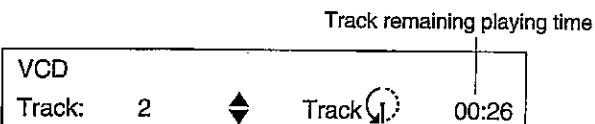
1. Press the ON SCREEN button.



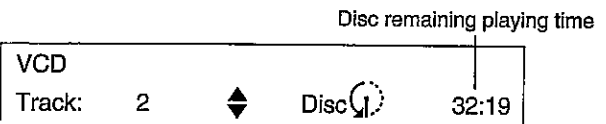
By pressing the ▲ or ▼ button, the track or disc information changes.



2. Press the ON SCREEN button.



By pressing the ▲ or ▼ button, the track or disc information changes.



Note:

For Music CD, please refer to "Example for VCD" as above.

Selecting picture mode [DVD] [Video CD]

Press the PICTURE MODE button. Each time the button is pressed, the picture mode changes as follows:

PICTURE MODE

Standard → Bright → Mild → Black and White → Standard ...

Multi-vision screen [DVD]

- Press the MULTI-VISION button during play, pause or search mode.
 - The normal screen changes to 9-picture screen.
 - The sound is muted.
- Press the MULTI-VISION button again to return normal screen.

Selecting surround sound mode [DVD]

Press the SURROUND button repeatedly to show your desired surround mode. "SURR." appears on the display. Each time the button is pressed, the surround mode changes as follows.

VIRTUAL SURROUND

Action → Drama → Theater → Off → Action ...

Note:

It works with Dolby Digital or Dolby Surround of DVD discs.

MP3 CD OPERATION

This player can play back the CD-R/RW that have recorded music data or MP3 files. Before playing back MP3 CD, please read the following.

MP3 CD information.

Limitations on MP3 CD play

- This player can recognize up to 255 files or folders per disc. The CD with 256 files or folders and over is not available to this player.
- This player can recognize up to 8 directory trees per disc.
- MP3 CD may not be played in the recorded order.
- As for multi-session disc, only the first session can be played.
- If the CD has both audio tracks and MP3 files, only audio tracks are played.
- It would take 30 seconds or more for this player to read MP3 files depending on its structure.

Limitations on display

- The maximum number for display is 33 letters. Available letters for display are the following: capital or small alphabets of A through Z, numbers of 0 through 9, and _ (underline).
- Other letters than those above are replaced in blank.

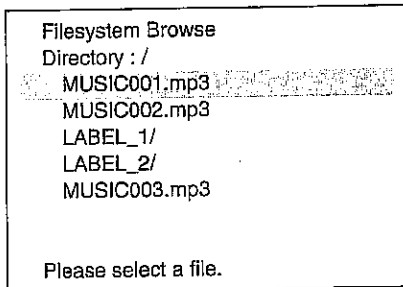
Notes on MP3 files

- The recommend recording setting for a high-quality sound is 44.1 kHz of sampling frequency and 128kbps of fixing bit rate.
- To play MP3 CD in the recorded order,
 1. Please use the MP3 software with the function that can record data alphabetically or numerically.
 2. Put the name including two-digit or three-digit number like "01" "02" or "001" "002" on each file.
 3. Please refrain from making many sub-folders by preference.
- Some MP3 CDs can not be played back depending on the recording conditions.

MP3 CD Play

1. Load the MP3 CD.
A table of contents in the root directory appears on the TV screen.

Example: (the root directory)



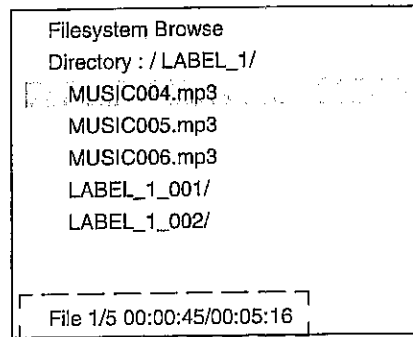
Note:

If nothing appears on the TV screen, press the MENU button.

2. Select the desired file by pressing the ▲ or ▼ button. The selected file is highlighted.
 - To go on to the next directory, select the appropriate folder and press the ► button. A table of contents in the selected directory appears on the TV screen.
 - To go back to the previous directory, press the ◀ button.
 - You can go on up to the eighth directory.

3. Press the ENT (or ► PLAY) button to start playback.
Elapsed playing time and total playing time in current file are displayed on the TV screen.

Example: (the second directory)



File information

Notes on file skip

Skipping forward

Press the NEXT ►► button during play to skip to the next file. Each time the button is pressed, a file is skipped within the same directory.

Skipping back

Press the PREV ◀◀ button during play to skip back to the beginning of the file currently play. Press the button again immediately to skip back to the beginning of the previous file.

Note:

- The files with no-MP3 extension and the folders are automatically skipped.
- To roll up and down the display, press the ▲ and ▼ buttons respectively.

INITIAL SETTINGS

Once the initial settings have been completed, the player can always be operated under the same conditions. The settings will be retained in the memory until they are changed, even if the power is turned off.

Common procedures of initial settings

1. Press the SET UP button in the stop mode. "SET UP MENU" appears on the TV screen.



2. Press the ▲, ►, ▼ or ◀ button, then press the ENT button to select the menu. Please refer to the on-screen instructions.
3. Press the SET UP button to quit this menu.

Example:



OSD: ENGLISH
AUDIO: DISC, ENGLISH, SPANISH, FRENCH, OTHERS
SUBTITLE: DISC, ENGLISH, SPANISH, FRENCH, OTHERS
DVD MENU: DISC, ENGLISH, SPANISH, FRENCH, OTHERS
(DISC: It will use its first priority language setting.)

Note:

- You cannot switch audio sound track languages if there is only one language recorded on the disc.
- When you play a DVD disc, the player automatically displays the pre-selected subtitle language if it is included on the disc.
- If "OTHERS" is selected, enter the language code. (See "LANGUAGE CODE LIST" on Page 15.)



TV TYPE: 4:3 LB, 4:3 PS, 16:9

Select the appropriate your TV screen size.

4:3 LB (Letterbox):

Select when a conventional TV set is connected.

When the wide screen disc is played back, the black bands appear at the top and bottom of screen.



4:3 PS (Panscan):

Select when a conventional TV set is connected.

When the wide screen disc is played back, it displays pictures cropped to fill to your TV screen. The left and right edges are cut off.



16:9 :

Select when a wide screen TV set is connected. Played in "FULL" size. (Setting the wide screen TV to "FULL" mode is also necessary.)



Note:

- The screen size may differ depending on the DVD discs.
- If you select 16:9 to get rid of the black bands on screen when wide screen disc is played back, picture may be slightly distorted.
- In some discs, even if 4:3 PS is selected, the black bands will remain on the screen.



96kHz LPCM: 96kHz LPCM, 48kHz LPCM
 DOLBY DIGITAL: LPCM, BITSTREAM
 DTS: OFF, ON
 MPEG: LPCM, BITSTREAM

If the optical DIGITAL OUT socket is connected to the amplifier, you must set as follows:

96kHz LPCM (96kHz Liner Pulse Code Modulation):
 If your amplifier is available for 96kHz sampling, select "96kHz LPCM". If not, select "48kHz LPCM".

Note:
 When "48kHz LPCM" is set, there are 48kHz LPCM audio signals from the AUDIO OUT sockets, not 96kHz LPCM audio signals.

- When playing back the DVD disc which recorded with 96kHz LPCM, there is no digital output.
- But playing back the DVD disc with no copyright protection, the sound is original recorded sound.

DOLBY DIGITAL:

If the amplifier has Dolby Digital decoder, select "BITSTREAM". If not, select "LPCM".

DTS:

Select DTS signal "ON" or "OFF".

Note:

When using a Digital Amplifier without a DTS decoder, set DTS to "OFF".

MPEG (Moving Picture Expert Group):

If the amplifier has MPEG decoder, select "BITSTREAM". If not, select "LPCM".



ENTER PASSWORD

Enter a number in 4 digits, then press "ENTER".



To confirm, enter password again, then press "ENTER".

Invalid password
 Enter a number in 4 digits, then press "ENTER".

PARENTAL LEVEL: OFF, 1, 2, 3, 4, 5, 6, 7, 8

CHANGE PASSWORD:

CHANGE PASSWORD

Enter a number in 4 digits, then press "ENTER".



To confirm, enter password again, then press "ENTER".

Parental control

MPAA (Motion Picture Association of America) Guideline is rating system that provide advance cautionary information to parent about the content of movie programmes.

The parental lock level is equivalent to the following MPAA Rating System.

Level 7: NC-17 (No one 17 and under admitted)

Level 6: R (Restricted)

Level 4: PG13 (Parental guidance cautioned)

Level 3: PG (Parental guidance suggested)

Level 1: G (General audiences)

Some DVD discs contain a restriction level which enables parents to prevent playback of discs by children. This DVD player is equipped with a password designed to prevent children changing the level.

You cannot play DVD discs rated higher than the level you selected unless you cancel the parental lock function.

For example, when you select level "5", the DVD player will not play discs with ratings of "6", "7" or "8". The information will appear on the TV screen.

If you forget the password...

Enter "788444" to clear the current password.

Enter a new password and set the parental lock level again.

Note:

DVD discs may or may not respond to the parental lock settings. Make sure this function works with your DVD discs.

For improvement, on screen displays subject to change without notice.

CLEANING THE UNIT

Clean the outside of the unit with a clean soft cloth moistened with lukewarm water. Do not use benzene, thinner or alcohol since they will mar the finish of the surfaces.

LANGUAGE CODE LIST

Enter the appropriate code number for the initial settings "AUDIO", "SUBTITLE" and "DVD MENU".

Code	Abbreviation of the language	Language	Code	Abbreviation of the language	Language	Code	Abbreviation of the language	Language
6565	aa	Afar	7369	ie	Interlingue	8278	rn	Kirundi
6566	ab	Abkhazian	7375	ik	Inupiak	8279	ro	Romanian
6570	af	Afrikaans	7378	in	Indonesian	8285	ru	Russian
6577	am	Amharic	7383	is	Icelandic	8287	rw	Kinyarwanda
6582	ar	Arabic	7384	it	Italian	8365	sa	Sanskrit
6583	as	Assamese	7387	iw	Hebrew	8368	sd	Sindhi
6589	ay	Aymara	7465	ja	Japanese	8371	sg	Sangro
6590	az	Azerbaijani	7473	ji	Yiddish	8372	sh	Serbo-Croatian
6665	ba	Bashkir	7487	jw	Javanese	8373	si	Singhalese
6669	be	Byelorussian	7565	ka	Georgian	8375	sk	Slovak
6671	bg	Bulgarian	7575	kk	Kazakh	8376	sl	Slovenian
6672	bh	Bihari	7576	kl	Greenlandic	8377	sm	Samoan
6673	bi	Bislama	7577	km	Cambodian	8378	sn	Shona
6678	bn	Bengali; Bangla	7578	kn	Kannada	8379	so	Somali
6679	bo	Tibetan	7579	ko	Korean	8381	sq	Albanian
6682	br	Breton	7583	ks	Kashmiri	8382	sr	Serbian
6765	ca	Catalan	7585	ku	Kurdish	8383	ss	Siswati
6779	co	Corsican	7589	ky	Kirghiz	8384	st	Sesotho
6783	cs	Czech	7665	la	Latin	8385	su	Sundanese
6789	cy	Welsh	7678	ln	Lingala	8386	sv	Swedish
6865	da	Danish	7679	lo	Laothian	8387	sw	Swahili
6869	de	German	7684	lt	Lithuanian	8465	ta	Tamil
6890	dz	Bhutani	7686	lv	Latvian, Lettish	8469	te	Tegulu
6976	el	Greek	7771	mg	Malagasy	8471	tg	Tajik
6978	en	English	7773	mi	Maori	8472	th	Thai
6979	eo	Esperanto	7775	mk	Macedonian	8473	ti	Tigrinya
6983	es	Spanish	7776	ml	Malayalam	8475	tk	Turkmen
6984	et	Estonian	7778	mn	Mongolian	8476	tl	Tagalog
6985	eu	Basque	7779	mo	Moldavian	8478	tn	Setswana
7065	fa	Persian	7782	mr	Marathi	8479	to	Tonga
7073	fi	Finnish	7783	ms	Malay	8482	tr	Turkish
7074	fj	Fiji	7784	mt	Maltese	8483	ts	Tsonga
7079	fo	Faeroese	7789	my	Burmese	8484	tt	Tatar
7082	fr	French	7865	na	Nauru	8487	tw	Twi
7089	fy	Frisian	7869	ne	Nepali	8575	uk	Ukrainian
7165	ga	Irish	7876	nl	Dutch	8582	ur	Urdu
7168	gd	Scots Gaelic	7879	no	Norwegian	8590	uz	Uzbek
7176	gl	Galician	7967	oc	Occitan	8673	vi	Vietnamese
7178	gn	Guarani	7977	om	(Afan) Oromo	8679	vo	Volapük
7185	gu	Gujarati	7982	or	Oriya	8779	wo	Wolof
7265	ha	Hausa	8065	pa	Punjabi	8872	xh	Xhosa
7273	hi	Hindi	8076	pl	Polish	8979	yo	Yoruba
7282	hr	Croatian	8083	ps	Pashto, Pushto	9072	zh	Chinese
7285	hu	Hungarian	8084	pt	Portuguese	9085	zu	Zulu
7289	hy	Armenian	8185	qu	Quechua			
7365	ia	Interlingua	8277	rm	Rhaeto-Romance			

TROUBLESHOOTING GUIDE

If you have followed the instructions and are having difficulty operation the unit, locate the SYMPTOM in the left column below. Check the corresponding POSSIBLE CAUSE and CORRECTIVE ACTION columns to locate and remedy the problem.

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
The power is on, but the player does not work.	No disc is loaded.	Load a disc.
No picture.	An unplayable disc is loaded.	Load a playable disc. (Check the disc logo, type, colour system and regional code.)
	The TV is not set to receive signal from the player.	Select the correct input function on the TV.
	No video connection.	Connect the video cable to the appropriate socket.
No sound.	No audio connections.	Connect the audio cables to the appropriate sockets.
The playback picture is poor.	An unplayable disc is loaded.	Load a playable disc. (Check the disc logo, type, colour system and regional code.)
"⊗" appears on the TV screen.	The selected function does not operate on the disc now.	The feature or action cannot be completed at this time because: <ul style="list-style-type: none"> - The feature is not available at the moment. - The DVD software restricts it. - The DVD software doesn't support the feature (e.g., angles).
The player does not start playback.	No disc is loaded.	Load a disc.
	An unplayable disc is loaded.	Load a playable disc. (Check the disc logo, type, colour system and regional code.)
	The disc is loaded with the label side down.	Load the disc on the disc tray correctly.
	The disc is dirty.	Clean the disc or replace it.
	"PARENTAL" is set.	Cancel the parental lock function or change the rating level. Reset it after play.
The operation or display is not normal.	The player must be reset.	<ol style="list-style-type: none"> 1. Disconnect the mains lead. 2. Reconnect the mains lead. 3. Resume operation.
The remote control does not work properly.	The batteries in the remote control are weak, or installed incorrectly.	Check the battery polarity (+ or -). Replace the batteries.
	The remote control is not aimed at the remote sensor window.	Aim the remote control at the remote sensor window.

SPECIFICATIONS

Playback system:

DVD-Video, Video CD, CD

Playback standard:

PAL or NTSC

Laser:

Semiconductor laser, wavelength: 650 nm

Laser output (Continuous wave max.):

1 mW (DVD)

0.5 mW (CD)

Frequency range (digital audio):

4 Hz to 44 kHz (DVD fs: 96 kHz)

Signal to noise ratio:

More than 105 dB

Harmonic distortion (digital audio):

0.003 %

Wow and flutter:

Below measurable level

Outputs:

DIGITAL OUT:

For optical cable

S-VIDEO OUT:

Y: 1.0 Vp-p (75 Ω) NTSC, 1.0 Vp-p (75 Ω) PAL

C: 0.286 Vp-p (75 Ω) NTSC, 0.3 Vp-p (75 Ω) PAL

VIDEO OUT:

1.0 Vp-p (75 Ω)

AUDIO OUT:

L: 2 V rms

R: 2 V rms

Power requirements:

AC 110 - 240 V, 50/60 Hz

Power consumption:

14.5 W

Dimensions:

360(W) x 79(H) x 281(D) mm

Weight:

2.7 kg

Specifications subject to change without notice.

IMPORTANT INFORMATION

Because its products are subject to continuous improvement, SANYO reserves the right to modify product designs and specifications without notice and without incurring any obligation.

