

SHARP®

DVD Video Player

MODEL

DV-SL80X

OPERATION MANUAL



RW
COMPATIBLE



The region number for this DVD player is 4.

Please read this Operation Manual carefully before using your DVD Video Player.



NTSC/PAL



DD DOLBY DIGITAL



MP3

Kodak
Picture CD
COMPATIBLE

SAFETY INFORMATION

NOTE:

This Player can be used only where the power supply is AC 220V-240V, 50/60Hz. It cannot be used elsewhere.

CAUTION:

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

AS THE LASER BEAM USED IN THIS PLAYER IS HARMFUL TO THE EYES, DO NOT ATTEMPT TO DISASSEMBLE THE CABINET. REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPARATUS TO DRIPPING OR SPLASHING, NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHOULD BE PLACED ON THE APPARATUS.

Laser Diode Properties

Material: GaAs

Wave length: DVD: 655 nm
CD: 790 nm

Emission Duration: Continuous
Laser output: Max. 0.8 mW

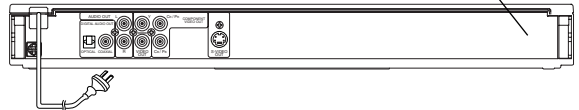
Power Cord Protection

To avoid any malfunctions of the Player, and to protect against electric shock, fire or personal injury, please observe the following.

- Hold the plug firmly when connecting or disconnecting the AC power cord.
- Keep the AC power cord away from heating appliances.
- Never put any heavy object on the AC power cord.
- Do not attempt to repair or reconstruct the AC power cord in any way.

- This Player is classified as a CLASS 1 LASER product.
- The CLASS 1 LASER PRODUCT label is located on the rear cover.
- This product contains a low power laser device. To ensure continued safety do not remove any cover or attempt to gain access to the inside of the product. Refer all servicing to qualified personnel.

**CLASS 1
LASER PRODUCT**



Location and Handling

- Do not cover or place the Player in enclosed spaces to prevent excessive temperature build up.
- Do not place the Player in direct sunlight, or near heat sources.
- Keep the Player away from strong magnetic objects.
- Do not place any object containing water or other liquids on the Player. In the event that liquid should enter the cabinet, unplug the Player immediately and contact the retailer or service centre approved by SHARP immediately.
- Do not remove the Player cabinet. Touching parts inside the cabinet could result in electric shock and/ or damage to the Player. For service and adjustment inside the cabinet, call a qualified dealer or service centre approved by SHARP.

Nonuse Periods

When the Player is not being used, switch the Player to the Standby mode.

When left unused for a long period of time, the Player should be unplugged from the household AC outlet.

No Fingers or Other Objects Inside

Do not put any foreign object on the disc tray.

Stacking

Place the Player in a horizontal position, and do not place anything heavy on it.

Condensation

Moisture may form on the pickup lens in the following conditions:

- immediately after a heater has been turned on.
- in a steamy or very humid room.
- when the Player is suddenly moved from a cold environment to a warm one.

If moisture forms inside this Player, it may not operate properly. In this case, turn on the power and wait about one hour for the moisture to evaporate.

Cleaning

Unplug your Player before cleaning. Use a damp cloth for cleaning. Do not use cleaning fluids or aerosols which could enter the Player and cause damage, fire, or electrical shock. These substances may also deteriorate the finish of your Player.

If there is Noise Interference on the TV While a Broadcast is being Received

Depending on the reception condition of the TV, interference may appear on the TV monitor while you watch a TV broadcast and the Player is left on. This is not a malfunction of the Player or the TV. To watch a TV broadcast, turn off the Player.

Service

Do not attempt to service this Player yourself. Please refer any service to the nearest service centre approved by SHARP.

Copyright

Copyright may exist in material you wish to record. Copying such material without permission of the relevant licence(s) or owner(s) of the copy right is prohibited by law. SHARP is not in a position to authorize the recording of copyright works and nothing in this manual should be read or implied as giving that authority.

Copy Protection

This Player supports Macrovision copy protection. On DVDs that include a copy protection code, if the contents of the DVD are copied using a VCR, the copy protection code prevents the videotape copy from playing normally.

Apparatus Claims of U.S. Patent Nos. 4,631,603, 4,577,216, 4,819,098 and 4,907,093 licensed for limited viewing uses only.

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.

Recommended Measures for Optimum Picture Excellence

The Player is a precision device that is constructed using extremely accurate technology. Soiling or friction affecting the pickup lens or disc drive can impair the image quality. At the worst, neither video nor audio will be played back. To maintain optimum picture quality, the Player should be serviced (cleaned and replacement of some parts) every 1,000 hours. Note that this period varies depending on the environment (temperature, humidity, dust, etc.) in which the Player is used. Contact your authorized Sharp supplier for details.

Do not attempt to clean the pickup lens yourself.

- **Dolby Digital sound**

This player can handle Dolby Digital surround sound having 5.1 channels when connected to a Dolby Digital decoder.

- **Still/fast/slow/step playback**

- **Rapid Play**

Playback in slightly faster/ slower speed while keeping the sound quality as in the normal playback. Rapid Play is available only on discs recorded in the Dolby Digital format.

- **Random playback for audio CD, MP3, JPEG and Kodak Picture CD**

- **Programme playback for audio CD, MP3, JPEG and Kodak Picture CD**

- **DVD menus in a desired language**

- **Screen saver/Auto power-off functions**

The screen saver programme starts when there is no input from the player for five minutes in the stop mode. When the screen saver programme is activated for 30 minutes, the power is automatically turned off.

- **Subtitles in a desired language**

- **Selecting a camera angle**

- **Choices for audio language and sound mode**

- **Parental lock**

- **Automatic detection of discs**

This player automatically detects if a loaded disc is DVD, audio CD, video CD, MP3 and JPEG on disc, or Kodak Picture CD.

- **Playing an MP3 disc**

- **Displaying a JPEG picture**

Kodak Picture CDs can be played. Still images stored in JPEG format on CD-R/RW can also be played.

- **Direct Search**

- **DTS (Digital Theater System)**

You can enjoy 5.1 channel surround sound system developed by Digital Theater System, Inc. which reproduces the original sound as truthfully as possible. External decoder is required.

- **MPEG audio**

This player can handle a disc that supports MPEG audio when it is connected to a MPEG decoder.

- **On-screen display**

Information about the current operation can be displayed on a TV screen, allowing you to confirm the currently active functions (such as programme playback), on the TV screen using the remote control.

- **Search**

Chapter search / Title search / Track search / Time search

- **Repeat**

Chapter / Title / Track / Group / All / A-B

- **Zoom**

- **Marker**

The part designated by user can be called back.

- **Resume Play**

- **Virtual Surround**

- **Component Video Out Jacks**

Jacks located on the back of the DVD Player which are used to send high-quality video to a TV via Component Video In Jacks.

- **Dimmer**

- **Bit rate indication**

- **DRC (Dynamic range control)**

You can control the range of sound volume.

- **Digital Gamma Setting**

- **Video Out**

When playing an NTSC disc, select either PAL or AUTO(NTSC) correspondingly to your TV system.

TABLE OF CONTENTS

■ SAFETY INFORMATION	2	Slow Forward / Reverse	14
■ FEATURES	4	Zoom	14
■ INTRODUCTION	5	Track Search	14
Symbols Used in this Manual	5	Title / Chapter Search	14
Supplied Accessories	5	Time Search	14
■ ABOUT THE DISCS	6	Repeat	15
Playable Discs	6	REPEAT TITLE / CHAPTER	15
Disc Types	6	REPEAT TRACK	15
■ FUNCTIONAL OVERVIEW	7	A-B REPEAT	15
FRONT PANEL	7	Programme (CD)	15
REAR VIEW	7	Random Playback (CD)	15
REMOTE CONTROL	7	MP3 / JPEG Playback	16
Display	8	Kodak Picture CD	16
Displays During Operation	8	Slide Show Mode	17
Loading the Batteries	8	Programme (MP3/JPEG)	17
■ SETTING UP YOUR DVD PLAYER	9	Random Playback (MP3/JPEG)	17
Connecting a TV or a stereo TV that has COMPONENT VIDEO IN jacks	9	Stereo Sound Mode	17
Connecting a TV Equipped with S-VIDEO Input or VIDEO/AUDIO Input Jacks	10	Audio Language	17
Connecting to Audio Equipment	10	Subtitle Language	17
Playing 2 channel audio	10	Camera Angle	18
Playing Dolby Digital (5.1 channel), DTS or MPEG audio	11	Changing the On-Screen Display	18
■ PLAYING A DISC	12	Marker Setup Screen	18
Basic Playback	12	Digital Gamma Setting	18
General Features	12	Virtual Surround	18
Pause	12	■ DVD SETUP	19
Disc Menus	12	Audio Setting	19
Title Menu	13	Parental Control	19
To call up a menu screen during playback	13	PARENTAL LEVEL	19
Step by Step Playback	13	IF YOU FORGET THE PASSWORD	19
Rapid Play	13	PARENTAL CONTROL LEVELS	19
Resume	13	Display Setting	20
Playing the disc recorded in VR mode (Video Recording format)	13	Language Setting	20
Fast Forward / Reverse Search	14	Returning all selections of SETUP (except for PARENTAL) to their default settings	20
		■ TROUBLESHOOTING GUIDE	22
		■ SPECIFICATIONS	23
		■ MAINTENANCE	23

INTRODUCTION

Symbols Used in this Manual

The following symbols appear below in some headings and notes in this manual, with the following meanings!

DVD

: Description refers to playback of DVD video discs. (including DVD-R/RW and DVD+R/RW discs (Video mode only))

CD

: Description refers to playback of audio CDs.

VCD / VCD

without PBC function

: Description refers to playback of video CDs.

MP3

: Description refers to playback of MP3 discs.

Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

DVD-RW

VR mode

: Description refers to playback of the VR mode (Video Recording format).

*The VR mode (Video Recording format) is a recording mode to enjoy editing the programme or "manual mode" for recording in desired resolution and time.

JPEG

: Description refers to viewing of JPEG discs.

☰ (QUICK)

: Basic setup can be performed more quickly by selecting.

☰ (QUICK setup menu).

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

Supplied Accessories

- Remote control
- Two AA batteries
- Operation Manual
- VIDEO/AUDIO cable

ABOUT THE DISCS

Playable Discs

The following discs can be played back on this DVD player.

- DVD video
- DVD-R/RW*
- DVD+R/RW*
- Audio CD
- CD-R/RW*
- MP3*
- Video CD
- JPEG*
- Kodak Picture CD

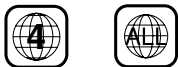
* Depending on the types or the writing method of the medium some discs can not be played.

For DVD+R/RW, only discs recorded in the Video mode can be played back.

- Some DVD-R/RW, DVD+R/RW or CD-R/RW discs made on personal computers, or on DVD recorders may not be played back properly due to the factors such as scratches, dirt or special properties of the disc.
- Discs made on personal computers may not playback properly due to compatibility or settings in the recording software. We recommend always to use the standard settings and correctly formatted discs. (Please contact the software supplier for more details.)
- You can play back discs which bear the marks on page 23. If you use nonstandardized discs, this unit may not play them back. Even if they are played back, the sound or video quality will be compromised.

This DVD player conforms to the PAL colour system. Also you can play discs recorded with the NTSC system via a PAL system TV set.

- Some discs include region codes as shown below.



- The number inside the symbol refers to a region of the world, and a disc encoded in a specific region format can only be played back on DVD player with the same region code.

RW COMPATIBLE: This label indicates playback compatibility with DVD-RW discs recorded in VR mode (Video Recording Format).

NOTE

- This player cannot play the DVD-RW that supports CPRM (Contents Protection for Recordable Media).

ABOUT THE PBC FUNCTION OF VIDEO CD

This unit conforms to ver.1.1 and ver.2.0 of VIDEO CD standard, with PBC function.

Ver.1.1 (without PBC function): You can enjoy playback picture as well as music CD.

Ver.2.0 (with PBC function): When using a VIDEO CD with PBC function, "PBC" appears on the display.

What is PBC? "PBC" stands for the PlayBack Control. You can play interactive software using a menu screens. Refer to instructions of VIDEO CD.

For Customer Use:

Read carefully the information located at the bottom of your DVD player and enter below the Serial No. Retain this information for future reference.

Model No. DVD player : DV-SL80X

Serial No. _____

The following discs cannot be played back on this DVD player.

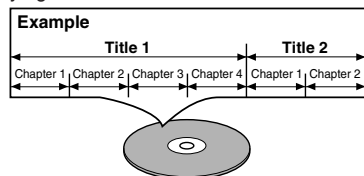
- DVD with region codes other than 4 or ALL.
- DVD-ROM
- DVD-RAM (Never play back, otherwise malfunction may result.)
- CD-ROM • CDV (Only plays back the audio part.)
- CD-G (Only plays back the sound.)
- CD-I (Never play back, otherwise malfunction may result.)
- Super Audio CD (Only the sound recorded on the normal CD layer can be delivered. The sound recorded on the high density Super Audio CD layer cannot be delivered.)
- Photo CD (Never play back, otherwise malfunction may result.)

Any other discs without compatibility indications.

Disc Types

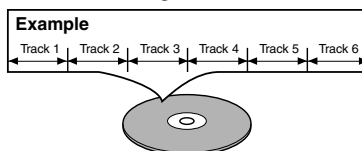
[DVD]

Data on a DVD is divided into sections called "titles", and then into subsections called "chapters", each of which is given a title or chapter number. Playback conditions are preset on some DVD video discs, and these playback conditions take priority over user operations on this player. If a function you selected do not run as desired, refer to the manual accompanying the disc.



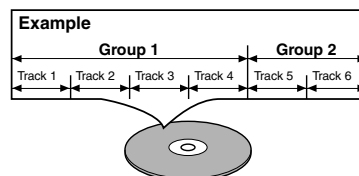
[Audio CD / Video CD]

Data on an audio CD or a video CD is divided into sections called "tracks", each of which is given a track number.



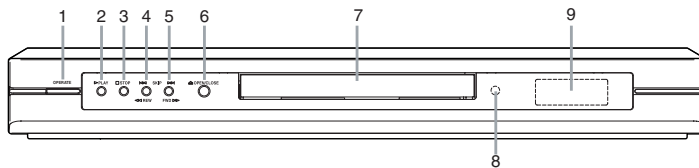
[MP3/JPEG]

Data on an MP3 and JPEG discs are divided into sections called "groups", and then into subsections called "tracks", each of which is given a group or track number.

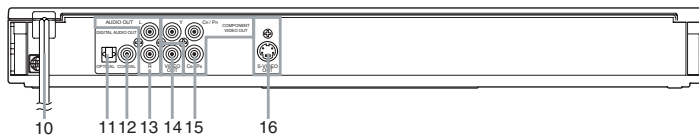


FUNCTIONAL OVERVIEW

FRONT PANEL



REAR VIEW

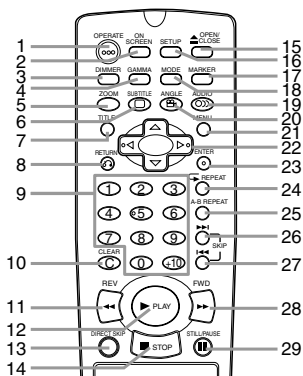


1. **OPERATE**
to switch the player to ON or OFF
2. **PLAY**
to start or resume disc playback
3. **STOP**
to stop playback
4. **SKIP <<< / REV <<<**
goes to previous chapter or track during playback; press and hold for 1.5 seconds for a reverse search
5. **SKIP >>> / FWD >>>**
goes to next chapter or track during playback; press and hold for 1.5 seconds for a forward search
6. **OPEN/CLOSE**
to open/close the disc tray
7. **Disc tray**
8. **Remote sensor window**
9. **Display**
10. **MAINS (AC Power Cord)**
connect to a standard AC outlet
11. **OPTICAL (Digital audio out)**
connect to digital (optical) audio equipment
12. **COAXIAL (Digital audio out)**
connect to AUDIO inputs of a digital (coaxial) audio equipment
13. **AUDIO OUT (Left/Right)**
connect to AUDIO inputs of an amplifier, receiver or stereo system
14. **VIDEO INPUT**
connect to the Video Input of a TV
15. **COMPONENT VIDEO OUT**
connect to a TV with Component video in jacks
16. **S-VIDEO OUT**
connect to a TV with S-Video inputs

CAUTION:

- Do not touch the inner pins of the jacks on the rear panel. Electrostatic discharge may cause permanent damage to the player.

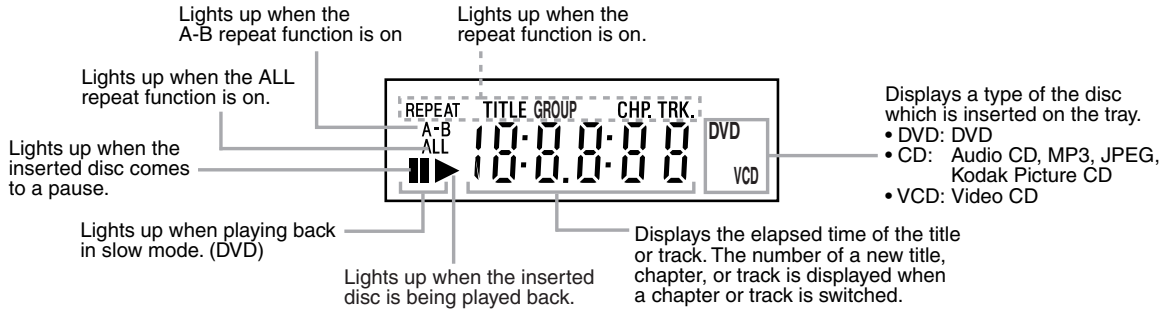
REMOTE CONTROL



1. **OPERATE Button [page 12]**
Press to turn the power on and off.
2. **ON SCREEN Button [page 18]**
Displays the current status on the TV screen for checking purposes.
3. **DIMMER Button [page 20]**
Press to change the Panel Display settings.
4. **GAMMA Button [page 18]**
Press to adjust the black parts of the picture brighter.
5. **ZOOM Button [page 14]**
Enlarges part of a DVD-reproduced image.
6. **SUBTITLE Button [page 17]**
Press to select a desired subtitle language.
7. **TITLE Button [page 13]**
Displays the title menu.
8. **RETURN Button [page 18]**
Returns to the previous operation.
9. **Numerical Buttons [page 14]**
10. **CLEAR Button [page 14]**
Resets a setting.
11. **REV Button [page 14]**
Fast reverse playback to a desired point.
12. **PLAY Button [page 12]**
Starts playback of the disc contents.
13. **DIRECT SKIP Button [page 14]**
Press to locate a desired point.
14. **STOP Button [page 12]**
Stops operation of the disc.
15. **OPEN/CLOSE Button [page 12]**
Press to insert discs into or remove them from the tray.
16. **SETUP Button [page 19]**
Press to enter the setup mode or to change setup items.
17. **MARKER Button [page 18]**
Press to call back the Marker display.
18. **MODE Button [page 13]**
Activates programme playback or random playback mode. (CD/MP3/JPEG) Activates the 3D sound or Rapid Play. (DVD)
19. **AUDIO Button [page 17]**
Press to select a desired audio language or sound mode.
20. **ANGLE Button [page 18]**
Press to change the camera angle to see the sequence being played back from a different angle.
21. **MENU Button [page 12]**
Displays the DVD menus and MP3 file lists.
22. **Arrow Buttons (◀ ▶ ▲ ▼) [page 12]**
(left/right/up/down) Select an item in the menu.
23. **ENTER Button [page 12]**
Press to accept a setting.
24. **REPEAT Button [page 15]**
Repeats playback of the current disc, title, chapter or track.
25. **A-B REPEAT Button [page 15]**
Repeats playback of a selected section.
26. **SKIP >>> Button [page 14]**
Plays back from the beginning of the next chapter or track.
27. **SKIP <<< Button [page 14]**
Plays back from the beginning of the current chapter or track.
28. **FWD Button [page 14]**
Fast forwards playback to a desired point.
29. **STILL/PAUSE Button [page 12]**
Pause playback temporarily/frame-by-frame playback.

FUNCTIONAL OVERVIEW

Display

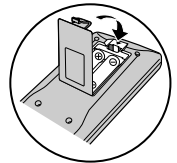
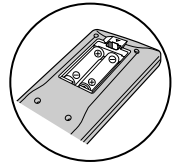
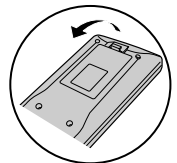


Displays During Operation

	Power on
	No disc inserted or cannot read
	Tray open
	Tray closed
	Loading the Disc
	Lights up when the playback control is activated.
	Power off

Loading the Batteries

1. Open the battery compartment cover.
2. Insert two AA batteries, with each one oriented correctly.
3. Close the cover.



NOTES:

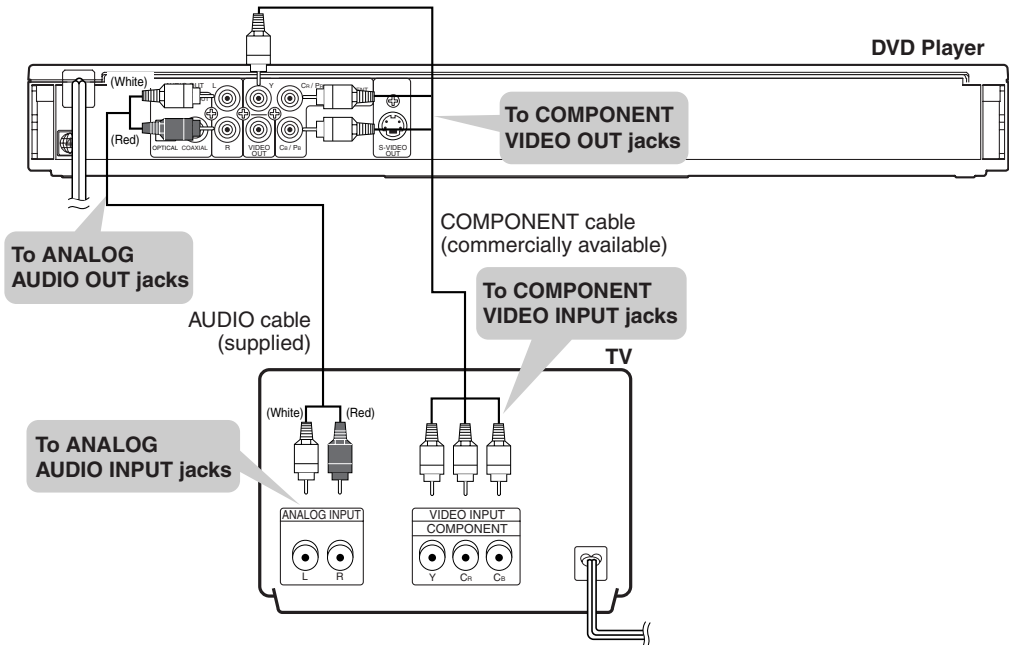
- Do not mix alkaline and manganese batteries.
- Do not mix old and new batteries.

SETTING UP YOUR DVD PLAYER

CAUTION:

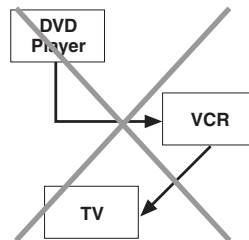
- Be sure to turn off the Player and equipment to be connected before connecting.
- Read through the operation manual for the equipment to be connected.
- Be sure that the colours of the jacks and plugs match up when using a VIDEO/AUDIO cable.
- Be sure to keep the Player connection cables separate from the TV antenna cable when you install the Player, because it may cause electrical interference when you are watching television programmes.
- DTS audio cannot be produced with an analogue connection.

Connecting to a TV or a stereo TV that has COMPONENT VIDEO In jacks



CAUTION:

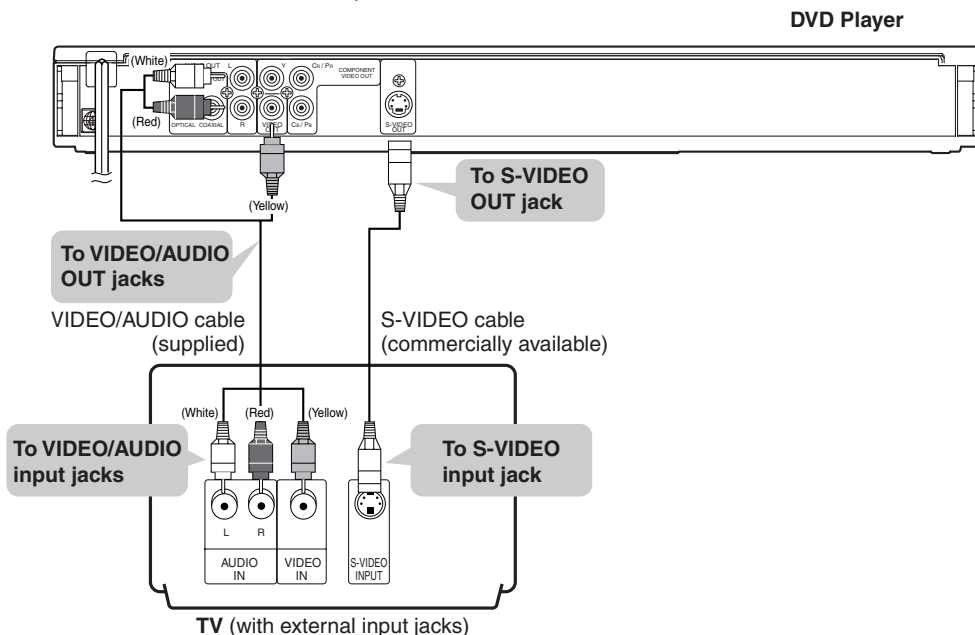
- Do not connect the Player to a VCR. If you view the Picture on your TV after making the connections shown on the right, a picture noise may appear. Connect the Player to your TV directly.



SETTING UP YOUR DVD PLAYER

Connecting a TV Equipped with S-VIDEO Input or VIDEO/AUDIO Input Jacks

The S-VIDEO connection provides a better quality video signal than the VIDEO (COMPOSITE) output. Use a commercially available S-VIDEO cable to connect from the Player to the TV.



- When the Player is connected to a TV using both a VIDEO cable and an S-VIDEO cable, only the S-VIDEO connection is enabled (the VIDEO connection is disabled).
- You will not be able to hear all of the sound being output by the Player if you use the VIDEO/AUDIO cable (supplied) to a monaural TV that has only one AUDIO input jack.

NOTES:

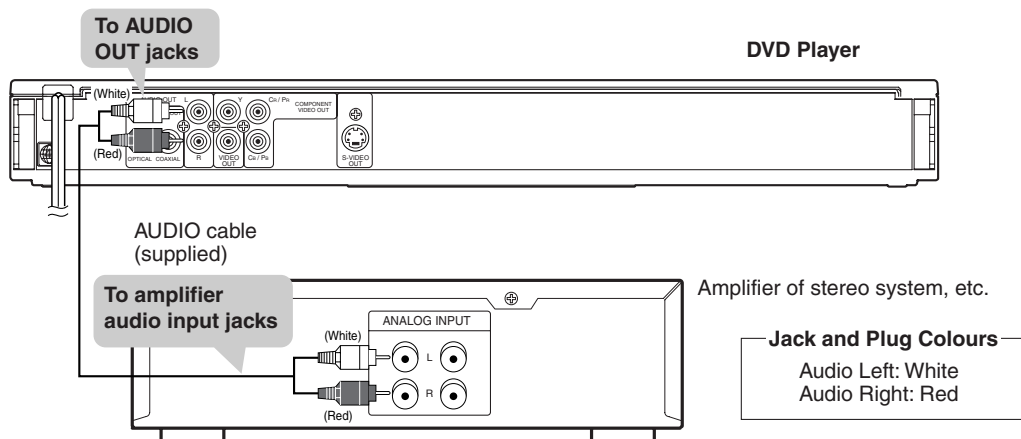
- Be sure that the colours of the jacks and plugs match up when connecting the cable.
- Connect the Player directly to the TV. If you attempt to view video on a TV connected via a VCR, the copy protection function will scramble the picture.
- If you want to listen to the audio through audio equipment, connect only the S-VIDEO or VIDEO cable to the TV.

Connecting to Audio Equipment

Connecting the Player to audio equipment provides normal stereo sound, plus powerful stereo sound enhanced by Dolby Digital 5.1 channel surround sound, DTS and MPEG Audio.

Playing 2 channel audio

■ Analogue audio connection



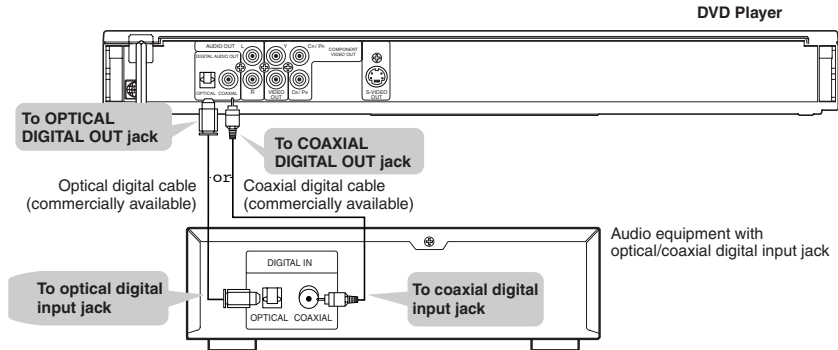
Jack and Plug Colours

Audio Left: White
Audio Right: Red

SETTING UP YOUR DVD PLAYER

Digital audio connection

You can make this connection using either a coaxial digital cable or an optical digital cable.



Digital Connection to an MD to Record a CD

Some Audio CDs have a short silent section between musical tracks. When sound from discs such as these is digitally recorded by connecting the Player directly to a digital recorder (such as an MD recorder), the music may be recorded continuously and track numbers may be lost.

Digital Connection to Audio Equipment or MD Recorder without a Dolby Digital Decoder

• Audio CD

Audio CDs can be transferred digitally to other equipment such as an MD recorder, play the disc as you would normally with the audio mode set to "L+R" and use the connection shown above. Audio CDs recorded in the DTS format cannot be transferred digitally or via analogue.

• DVD

DVDs recorded in Dolby Digital 5.1 channel surround sound, DTS or MPEG Audio cannot be connected digitally to external recording equipment such as an MD recorder.

The audio source on a disc in a Dolby Digital 5.1 channel surround format cannot be recorded as digital sound by an MD recorder.

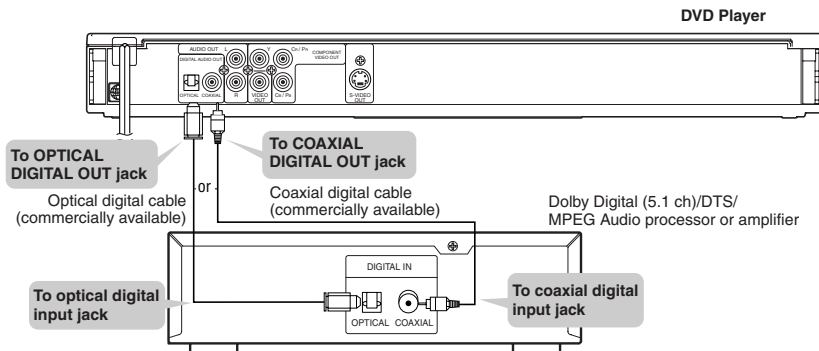
It may be possible to record "DOLBY DIGITAL" or MPEG Audio via a digital connection if the DVD player output is set to "DPCM" (see page 19 "Audio Settings"). Analogue recording is possible but not for DTS recorded audio.

Playing Dolby Digital (5.1 channel), DTS or MPEG audio

Connecting an amplifier with a Dolby Digital/ DTS/ MPEG Audio digital surround processor to your player's coaxial digital jack provides richer and more powerful audio play.

Digital connection to a processor or amplifier with an optical/ coaxial digital input jack

You can make this connection using either a coaxial digital cable or an optical digital cable.



NOTES:

- This connection is not possible if the processor or amplifier to which you want to connect does not have an optical/coaxial digital input jack.
- ANALOG AUDIO OUT and AV (TV) of the DVD player are not available on the DTS audio.

HOW TO CONNECT TO A TV WITHOUT AUDIO/VIDEO INPUT JACKS

If your TV does not have RCA type audio and video input jacks it is still possible to connect this DVD player to your TV's 75-ohm coaxial antenna terminal using a commercially available Stereo Audio/Video RF Modulator. Connect the audio and video outputs of the DVD player to the audio and video inputs on the RF Modulator, and then connect the coaxial output of the RF Modulator (usually marked "TO TV") to the 75 ohm coaxial antenna terminal on your TV. Follow the instruction supplied with the RF Modulator for more details.

If your TV's 75 ohm coaxial antenna terminal is already occupied by an antenna or cable box connection, remove that cable from your TV's antenna terminal and reconnect it to the coaxial antenna input terminal of the RF Modulator (usually marked "ANT IN"), then connect the RF modulator to your TV's antenna terminal as described above.

NOTE:

- The picture quality from DVDs will not be as good if the DVD player is connected to the TV's antenna terminal through an RF Modulator.

Basic Playback

DVD

CD

MP3

DVD-RW

VR mode

VCD

JPEG

Getting started

- Turn on the power of the TV, amplifier and any other components which are connected to the DVD player.
- Make sure the TV and audio receiver (commercially available) are set to the correct channel.
- When you play NTSC recorded discs, the default setting converts this to a modified PAL (see page 20 "Display Settings").

1 Press **OPERATE**.

- "P-ON" will appear briefly on the display panel.

2 Press **OPEN/CLOSE** to open disc loading tray.

3 Place the chosen disc on the tray, with the label facing up.

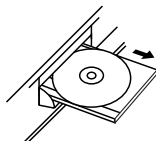
4 Press **PLAY**.

- The tray will close automatically, and playback will then start from the first chapter or track of the disc. If the playback does not start automatically, press **PLAY**.
- When you playback the DVD which a title menu is recorded, it may appear on the screen. In this case, refer to "TITLE MENU".

5 Press **STOP** to stop playback.

NOTES:

- A "prohibited icon" may appear at the top-right on the TV screen during operation, warning that a prohibited operation has been encountered by the DVD player or the disc.
- With DVDs that use some titles for playback programme signals, playback may start from the second title, or it may skip these titles.
- During the playback of two layered disc, pictures may stop for a moment. This happens when the 1st layer switches to the 2nd layer. This is not a malfunction.
- A DVD-RW disc recorded in the VR mode may freeze momentarily during playback depending on how the playlist was made and edited (deleted titles, repeated recording).



General Features

DVDs or Video CDs may contain menus to navigate the disc and access special features. Enter an appropriate number or use **Arrow** (▼/▲/▶/◀) to highlight your selection in the DVD main menu and press **ENTER** to confirm.

NOTE:

- Unless stated, all operations described are based on remote control use.

Cancelling PBC* (for playback of a Video CD)

1 Insert a Video CD. (Playback will start automatically.)

2 Press **STOP**.3 Enter track number of your choice with the **numerical buttons**.

4 PBC is now cancelled and the playback of the Video CD will start.

*What is PBC?

"PBC" stands for the PlayBack Control. You can play interactive software using a menu screens. Refer to instructions of Video CD.

Pause

DVD

CD

MP3

DVD-RW

VR mode

VCD

1 During playback, press **STILL/PAUSE**.

- Playback will pause and sound will be muted.

2 To continue playback, press **PLAY**.

NOTE:


- Set STILL MODE to FIELD on the Display menu if pictures in the pause mode are blurred. (Refer to page 20.)

Disc Menus

DVD

1 Press **MENU**.

- The DVD main menu will appear.

2 If the feature is not available,  symbol may appear on the TV screen.






3 If disc menu is available on the disc, audio language, subtitle options, chapters for the title and other options will appear for selection.

4 Press **Arrow** (▼/▲/▶/◀) to select an item, and **ENTER** to confirm selection.

PLAYING A DISC

Title Menu

DVD

- 1 Press **TITLE**.
 - The title menu will appear.
- 2 If the feature is not available,  symbol may appear on the TV screen.
- 3 Press **Arrow** ( /  /  / ) to select an item, and **ENTER** to confirm selection.
 - Playback will begin at the selected Title.

To call up a menu screen during playback

- Press **MENU** to call up the DVD main menu.
- Press **TITLE** to call up the title menu.

VCD

- 1 Insert a Video CD.
 - The title menu will appear.
- 2 Press the **numerical buttons** to select the menu. Playback will start.

NOTE:

- Contents of menus and corresponding menu operations may vary between discs. Refer to the manual accompanying the disc for details.

Step by Step Playback

DVD

DVD-RW
VR mode

VCD

- 1 During playback, press **STILL/PAUSE**.
 - Playback will pause and sound will be muted.
- 2 The disc goes forward by one frame each time **STILL/PAUSE** is pressed.
- 3 To exit step by step playback, press **PLAY**.





NOTE:

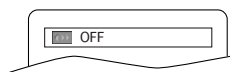
- Set STILL MODE to FIELD on the Display menu if pictures during step by step playback are blurred. (Refer to page 20.)

Rapid Play

DVD

Available only on discs recorded in the Dolby Digital format, Rapid Play plays back in slightly faster/ slower speed while keeping the sound quality as in the normal playback.

- 1 Press **MODE** during playback.
 - The current setting appears.
- 2 Press **ENTER** to switch among  (x1.3),  (x0.8), and OFF.
 -  : Plays back approximately at 0.8 times of normal playback.
 -  : Plays back approximately at 1.3 times of normal playback.
- 3 To return to normal playback, press **PLAY**.



NOTES:

- Audio (language) setting cannot be changed while using this mode.
- Virtual Surround and Digital Gamma settings cannot be changed while using this mode.
- Virtual Surround does not function while using this mode.
- This feature may not work at some point in a disc.
- When using digital audio connection (COAXIAL/ OPTICAL), the PCM sound will be output.

Resume

DVD

CD

VCD
without PBC function

DVD-RW
VR mode

- 1 During playback, press **STOP**.
 - Resume message will appear on the TV screen.
- 2 Press **PLAY**, playback will resume from the point at which playback was stopped.
 - To cancel resume, press **STOP** again.
 - To stop playback, press **STOP** twice from playback mode.

NOTE:

- For MP3, playback will resume from the beginning of the current track.





Playing the disc recorded in VR mode (Video Recording format)

DVD-RW
VR mode

DVDs recorded in VR mode can have a PLAYLIST assigned to alter the order or content to be played. If a PLAYLIST has been created, you can choose the ORIGINAL or PLAYLIST option.

- 1 Press **MENU** in stop mode.
 - The current setting screen will appear.
 - Pressing **MENU** during playback is not valid.



- 2 Press  or  to select ORIGINAL or PLAYLIST.
 - PLAYLIST will not be displayed when it has not been made.
 - Resume playback will not be possible if you change the setting.
- 3 Press  or  to select a title, then press **ENTER**.
 - Playback will start.

NOTES:

- [ORIGINAL]: A list of titles which are recorded with a DVD recorder.
- [PLAYLIST]: A list of titles which is made based on the ORIGINAL edited list.
- With discs recorded in VR mode, changing the audio (MAIN, SUB or MAIN+SUB) is effective only when using an analogue connection. Although you may be able to change the settings of the on-screen display, it will not affect the sound when using a digital connection.

Fast Forward / Reverse Search

DVD CD MP3 DVD-RW VCD

VR mode

- During playback, press **FWD▶▶** or **REV◀◀** repeatedly to select the required forward or reverse speed.
 - For DVDs, fast forward or reverse search speed is different depending on the disc. Approximate speed is 1 (x2), 2(x8), 3 (x50), and 4 (x100).
 - For Video CDs, fast forward or reverse search speed is different depending on the disc. Approximate speed is 1(x2), 2(x8), 3(x30).
 - For audio CDs, the approximate speed is x16.
 - For MP3, the approximate speed is x8.
 - If you are using **FWD▶▶** or **REV◀◀** on the front panel, press and hold it for more than 1.5 seconds. When you reach the desired speed, release the button.
- To return to normal playback, press **PLAY**.

Slow Forward / Reverse

DVD DVD-RW VCD

VR mode

- During playback, press **STILL/PAUSE**.
- Press **FWD▶▶** or **REV◀◀**.
 - Slow motion playback will begin and sound will be muted.
- Press **FWD▶▶** or **REV◀◀** repeatedly to select the required speed.
 - Slow forward or reverse speed is different depending on the disc. Approximate speed is 1 (1/16), 2 (1/8), and 3 (1/2).
 - If you are using **FWD▶▶** or **REV◀◀** on the front panel, press and hold it for more than 1.5 seconds. When you reach the desired speed, release the button.
- To return to normal playback, press **PLAY**.

NOTES:

- Set STILL MODE to FIELD on the Display menu if pictures in the slow playback mode are blurred. (Refer to page 20.)
- You cannot play VCDs in reverse slow motion.

Zoom

DVD DVD-RW VCD JPEG

VR mode

The Zoom function allows you to enlarge the video image and to pan through the enlarged image.

- Press **ZOOM** during playback.
 - Playback will continue.
- Press **ZOOM** repeatedly to select the required zoom factor: x2, x4 or OFF.
- Use **Arrow** (▼/▲/▶/◀) to move the zoomed picture across the screen.
- To exit zoom mode, press **ZOOM** to OFF.

NOTES:

- Zooming function does not work while disc menu is shown.
- x4 zoom is not available on some discs.
- Only x2 zoom is available on VCDs and JPEG.

Track Search

CD MP3 VCD JPEG

without PBC function

There are three ways to begin playback on an Audio CD, VCD, MP3 or JPEG disc at a specific Track.

Using the Numerical buttons

- Press the **numerical buttons** to enter the desired Track number.
 - Playback will start at the selected track.
 - For single digit tracks (1-9), press a single number (eg. track 3, press 3).
 - To play track 26, press +10, 2, 6 on the **numerical buttons**.

Using the DIRECT SKIP.

- Press **DIRECT SKIP**.
 - The track search display appears.
- Within 30 seconds, select a desired track number using the **numerical buttons**. For single digits press "0" first.
 - Playback will start at the selected track.

Using the SKIP ◀◀▶▶

During playback, press **SKIP ▶▶** to move to the next track. Press it quickly and repeatedly to skip subsequent tracks. Press **SKIP ◀◀** to go back to the beginning of the current track. Press it repeatedly to go to the previous tracks.

- Track number will appear briefly on the DVD display panel.
- If SKIP is pressed while the playback is paused, the playback will be paused again after skipping to the next track.

NOTE:

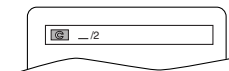
- SKIP ◀◀▶▶** are not available when playback is stopped.

Title / Chapter Search

DVD DVD-RW

VR mode

- During playback, press **DIRECT SKIP** repeatedly until the Chapter Search or the Title Search screen appears.



- Enter the desired chapter/title number using the **numerical buttons**.

NOTE:

- Depending on the disc being played, this function can also be performed by directly entering the desired chapter number using **numerical buttons**. Refer to the manual accompanying the disc.

Time Search

DVD CD DVD-RW VCD

VR mode

without PBC function

- During playback, press **DIRECT SKIP** repeatedly until the Time Search screen appears.

- Within 30 seconds, enter a desired disc time using the **numerical buttons**.
 - Playback will start at the specified time.
 - When there is no need to enter a number, "0" appears automatically. For example, "0:0:_ _" appears in the Time Search display if the total time of the disc is less than 10 minutes.

NOTE:

- Press **CLEAR** to erase the incorrect input.

PLAYING A DISC

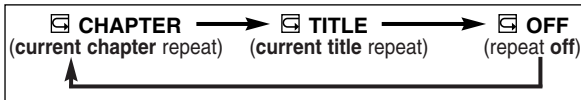
Repeat

- **REPEAT** are available only during playback.

DVD

To activate the repeat function, press **REPEAT** during playback.

- The repeat mode changes as described below every time you press the button.



DVD-RW VR mode



NOTES:

- Repeat Title/Chapter is not available with some scenes.
- The REPEAT setting will be cleared when moving to other title or chapter.

CD VCD

without PBC function

To activate the repeat function, press **REPEAT** during playback.

- The repeat mode changes as described below every time you press the button.



NOTES:

- The REPEAT setting will be cleared when moving to other track.
- Repeat playback does not function during A-B REPEAT playback.

MP3 JPEG



A-B REPEAT

DVD CD DVD-RW VCD

VR mode

- 1 Press **A-B REPEAT** at your chosen starting point.
 - A- appears briefly on the TV screen.
- 2 Press **A-B REPEAT** again at your chosen end point.
 - A-B appears briefly on the TV screen, and the repeat sequence begins.
- 3 To exit the sequence, press **A-B REPEAT**.

NOTES:

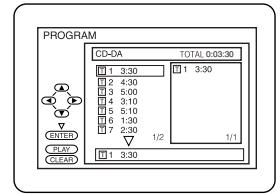
- The A-B REPEAT section can only be set within the current title (for DVDs), or current track (for audio CDs).
- A-B REPEAT is not available with some scenes in DVD.
- To cancel the A point which was set, press **CLEAR**.
- A-B REPEAT playback does not function during title, chapter, track or all repeat playback.

Programme (CD)

CD

You may determine the order in which tracks will play.

- 1 Press **MODE** (playback must first be stopped).
 - The PROGRAM screen will appear.
- 2 Press **▲** or **▼** to select a track, then press **ENTER**.
 - Press **CLEAR** to erase the most recently entered programme.
- 3 Press **PLAY** to play the programmed tracks.



NOTES:

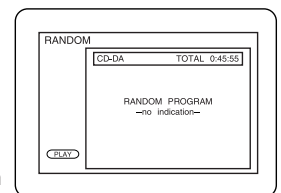
- While the programme is being played back, the **STOP** works as follows.
- Press **STOP** once and then **PLAY** again, playback will restart from the point where **STOP** was pressed. (Programme continued)
- Press **STOP** twice and then **PLAY**. Playback starts from the track in the original order. However, the programme can be called back when you follow the above steps. Your programmes will be stored unless either the disc tray is opened or power is turned off.
- Up to 99 programmes can be entered.
- To erase all programmes at once, select **ALL CLEAR** at the bottom of the list at Step 2.
- To repeat the current track in the programme, press **REPEAT** repeatedly until **TRACK** appears during playback. If you like to repeat the entire programme press **REPEAT** repeatedly until **ALL** appears during playback.
- Refer to page 17 for programme playback of MP3 and JPEG.

Random Playback (CD)

CD

This shuffles the playing order of tracks instead of playback in the sequence.

- 1 In stop mode, press **MODE** repeatedly until the **RANDOM** screen appears.
- 2 Press **PLAY** to start random playback.



NOTES:

- To repeat the current track in the random selection, press **REPEAT** repeatedly until **TRACK** appears during playback. To repeat the entire random selection press **REPEAT** repeatedly until **ALL** appears during playback.
- Refer to page 17 for programme playback of MP3 and JPEG.

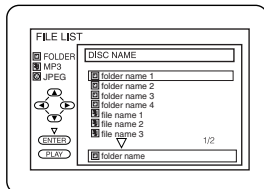
MP3/JPEG Playback

MP3 JPEG

When a CD with MP3 or JPEG files is inserted in the DVD player and **MENU** is pressed, the FILE LIST will appear on display. The number of tracks is also displayed on the front panel.

1 Press **▲** or **▼** to select the desired group (folder) or track.




- If a group (folder) is selected, press **▶** or **ENTER** to go on to the track selection screen. Press **▲** or **▼** to choose a track, then press **PLAY** or **ENTER**.



- If a track is selected, press **PLAY** or **ENTER** to start playing tracks. Starting from the one that has been chosen and the subsequent tracks will be played.
- Press **TITLE** to return to the first item.

2 Press **STOP** to stop playback.

NOTES:

- Folders are known as Groups; files are known as Tracks.
- Folders are accompanied by  icon.
- MP3 files are accompanied by  icon.
- JPEG files are accompanied by  icon.
- Maximum of 255 folders can be recognized.
- Maximum of 512 files can be recognized.
- Up to 8 hierarchies can be created.

This player recommends the use of files recorded at the below specifications:

- Sampling frequency: 44.1kHz or 48kHz
- Constant bit rate: 112kbps ~ 320kbps.

Applicable JPEG file	Remarks
Size of image	Upper limit: 6300x5100 dots Lower limit: 32x32 dots A JPEG image that extends beyond the screen is reduced so that it will be displayed within the screen.

Information on MP3 and JPEG files

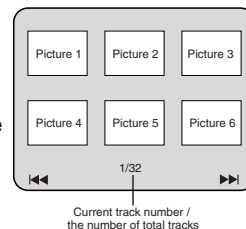
- This DVD player can play back images and sounds from data recorded in MP3 and JPEG formats on CD-R and CD-RW discs.
- A file with an extension of “.mp3 (MP3)” is called an “MP3 file”.
- A file with an extension of “.jpg (JPG)” or “.jpeg (JPEG)” is called a “JPEG file”.
The DVD player can run an image file conforming to the Exif specification. Exif is a file format, Exchangeable Image File format established by Japanese Electronic Industry Development Association (JEIDA).
- Files whose extension is other than “.mp3 (MP3)”, “.jpg (JPG)” and “.jpeg (JPEG)” will not be listed in the MP3 or JPEG menu.
- If the file is not recorded in MP3 or JPEG format, noise may be produced even if the file extension is either “.mp3 (MP3)”, “.jpg (JPG)” or “.jpeg (JPEG)”.
- The name of group and track can be displayed in up to 25 characters. Unrecognizable characters will be replaced with asterisks. The ninth and deeper hierarchies cannot be displayed.
- Unplayable groups or tracks may be displayed depending on the recording conditions.
- If **TITLE** is pressed when a file list is displayed, the first item will be highlighted.

Kodak Picture CD

The DVD player can also run JPEG files stored on Kodak Picture CDs. The Picture CD is a service to convert photo-graphs taken by a conventional film camera into digital data and write the data on a CD. The user can enjoy picture images on the television set by playing back the Picture CDs. For details of Kodak Picture CD, contact a shop that deals with developing service of Kodak Inc.

1 Press **MENU**. Kodak Picture CD menu appears.

- If all menu items cannot be displayed in the screen scope, “▶▶” appears at the right bottom of the screen, indicating that the user can view remaining items on the next page. “◀◀” appears, it indicates that the user can view other items on the previous page. The track number of the currently highlighted item and the total tracks are shown at the centre bottom of the screen.



- If “▶▶” is shown at the right bottom, use **SKIP ▶▶** to view the next page. If “◀◀” is shown at the left bottom, use **SKIP ◀◀** to view the previous page.
- It may take some time until all menu items are displayed on the menu screen.

2 Press **Arrow** (◀/▶/▲/▼), select a desired track to be played, then press **PLAY** or **ENTER**.

- If a Kodak Picture CD file is selected, an image will be played back from the selected track and go to the next one in turn.

3 Press **STOP** to stop playback.

NOTES on JPEG and Kodak Picture CD playback

- A track is displayed for five seconds and then the next track is displayed.
- Every press on **▶** will turn the image clockwise by 90 degrees when an image is displayed. A press on **◀** will turn the image counterclockwise by 90 degrees.
- If a group is selected, press **▲** or **▼** to select a desired group, then press **▶**, **PLAY** or **ENTER** to select a track.

Slide Show Mode

JPEG

You can switch to the slide show mode during playback.

- 1** Press **MODE** during playback.
 - The slide show mode screen will appear.
 - The slide show mode cannot be switched when it is stopped, or from the file list screen or the Picture CD menu screen.
- 2** Press **ENTER**.
 - The slide show mode will change.
 - CUT IN/OUT: The entire image appears in one time.
 - FADE IN/OUT: The image appears gradually and then disappears.
- 3** Press **MODE** to exit.

Programme (MP3/JPEG)

MP3 **JPEG**

This feature allows you to programme an MP3 or JPEG disc to play in a desired sequence.

- 1** Press **MODE** (playback must first be stopped).
 - The PROGRAM screen will appear.
- 2** Press **▲** or **▼** to select a track, then press **ENTER**, to save it in a programme.
 - Press **CLEAR** to erase the incorrect input.
- 3** Press **PLAY** to start programmed playback.

NOTES:

- To erase all programmes at once, select ALL CLEAR at the bottom of the list at Step2.
- Press **STOP** once and then **PLAY** again, playback will restart from the beginning of the track at which **STOP** was pressed.
- Press **STOP** twice and then **PLAY**. Playback starts from the track in the original order. However, the programme can be called back when you follow the above steps. Your programmes will be stored unless either the disc tray is opened or power is turned off.

Random Playback (MP3/JPEG)

MP3 **JPEG**

- 1** In stop mode, press **MODE** repeatedly until the RAN-
DOM screen appears.
- 2** Press **PLAY** to play the tracks in random order.

Stereo Sound Mode

CD **VCD**

- 1** Press **AUDIO** repeatedly during playback to select between STEREO, L-CH or R-CH.
 - STEREO - both right and left channels are active (stereo)
 - L-CH - only left channel is active
 - R-CH - only right channel is active

NOTES:

- If the Virtual Surround setting is ON, the sound mode will be fixed to STEREO, and can not be changed.
- Stereo sound mode will not be changed when playing DTS CD.

Audio Language

DVD **DVD-RW**
VR mode

The DVD player allows you to select a language during DVD disc (if multi language available) playback.

- 1** Press **AUDIO** during playback.
- 2** Press **AUDIO** repeatedly to select your desired language.

NOTES:

- The sound mode cannot be changed during playback of discs not recorded in double sound.
- Audio language selection cannot be made during Rapid Play. (Refer to page 13.)
- Pressing **AUDIO** may not work on some DVDs with multiple audio languages (e.g. DVDs which allow audio language setting on the disc menu).

NOTES (for VR mode only) :

- Pressing **AUDIO** cycles the sound mode through MAIN, SUB, MAIN + SUB.
- DVD-RW discs recorded in double sound (two languages) can be played back in either sound mode of MAIN, SUB or MAIN + SUB.

Mode	AUDIO OUTPUT		Display on the TV screen
MAIN	L	Main Audio	MAIN
	R	Main Audio	
SUB	L	Sub Audio	SUB
	R	Sub Audio	
MAIN SUB	L R	Main Audio Sub Audio	MAIN+ SUB

Subtitle Language

DVD **DVD-RW**
VR mode

The DVD player allows you to select a language for subtitle during DVD disc (if available) playback.

- 1** Press **SUBTITLE** during playback.
- 2** Press **SUBTITLE** repeatedly to select your desired subtitle language.
 - The selected language will be displayed on the display bar at the top of the screen.
- 3** To turn off subtitles, press **SUBTITLE** repeatedly until OFF appears.

NOTES:

- Some discs allow audio language setting/subtitle language setting on the disc menu. (Operation varies between discs, so refer to the manual accompanying the disc.)
- If the desired language is not shown after pressing **SUBTITLE** several times, the disc does not have subtitles in that language.
- If you choose a Language that has a 3 letter language code, the code will be displayed every time you change the Subtitle language setting. If you choose any other languages, '---' will be displayed instead. (Refer to page 21.)
- Pressing **SUBTITLE** may not work on some DVDs with multiple subtitle languages (e.g. DVDs which allow subtitle language setting on the disc menu).

Camera Angle

DVD

Some DVDs contain scenes which have been shot simultaneously from various angles. You can change the camera angle when the (CAM) icon appears on the screen. If the ANGLE ICON setting is OFF in the Display setting, the (CAM) icon will not appear. (Refer to page 20.)

- 1 Press **ANGLE** during playback.
 - The selected angle will be displayed on the display bar at the top of the screen.
- 2 Press **ANGLE** repeatedly to select your desired angle.

Changing the On-Screen Display

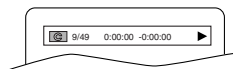
DVD DVD-RW

VR mode

You can check information about the current disc by pressing **ON SCREEN** on the remote control.

- 1 Press **ON SCREEN** during playback to show current Chapter.
 - The elapsed and remaining playing time of the current chapter will be displayed.
- 2 Press **ON SCREEN** again to show current Title.
 - The elapsed and remaining playing time of the current title will be displayed.
- 3 Press **ON SCREEN** again.
 - The BIT RATE and the current repeat setting will be displayed.
 - If you are playing a dual layered disc, the layer number will also be displayed (L0: Layer 0 is playing. L1: Layer 1 is playing).

If you are playing a DVD-RW with setting the PLAYLIST, the following will also be displayed.
 ORG: Playing the ORIGINAL.
 PL: Playing the PLAYLIST.
- 4 Press **ON SCREEN** the fourth time to remove the display.



CD VCD

without PBC function

- 1 Press **ON SCREEN** during playback, the current Track will be displayed on the TV screen.
 - The elapsed and remaining playing time of the current track will be displayed.
- 2 Press **ON SCREEN** again to show current Total Track.
 - The elapsed and remaining playing time of the current total track will be displayed.
- 3 Press **ON SCREEN** again to remove the display.

MP3 JPEG

- 1 Press **ON SCREEN** during playback of an MP3 or JPEG disc.
 - The name of the file currently in play will be displayed.
- 2 Press **ON SCREEN** again to show the track number, the elapsed time (for MP3 only), the repeat status, and the playback status at the top of the screen.
 - [REPEAT] will be displayed when the repeat play has been selected.
 - [T] indicates Track repeat
 - [G] indicates Group (folder) repeat
 - [A] indicates All (disc) repeat
- 3 Press **ON SCREEN** again to exit.

Marker Setup Screen

DVD

CD

DVD-RW

VCD

VR mode

without PBC function

Use markers to memorise your favourite places on a disc.

- 1 Press **MARKER** during playback.
 - The display screen and Markers will appear on the TV screen.
- 2 Press ◀ or ▶ to select a Marker (1 ~ 10), and ensure that "- : - : - -" appears in the display.
- 3 When it reaches the desired point, press **ENTER**.
 - Selected number will turn to [✓] and the point will be marked.
 - The Title or Track and elapsed playing time will appear in the TV screen.
- 4 To return to the Marker later, press **MARKER** during playback and ◀ or ▶ to choose the desired marker (one of the [✓] mark), then press **ENTER**.

NOTES:

- Opening the disc tray or turning off the power or select AC (All Clear) at step 2 and press **ENTER** will erase all Markers.
 - To clear a marker, using ◀ or ▶, position the cursor on to the marker number to be cleared and press **CLEAR**.
 - You can mark up to 10 points.
- 5 Press **MARKER** or **RETURN** to exit.

Digital Gamma Setting

DVD

DVD-RW

VCD

VR mode

DIGITAL GAMMA is a digital image quality enhancement function that gives a richer image by brightening the darker and more obscure portions of the image without altering the brightness of the brighter portions thereby making the entire image easier to see. Three digital gamma settings are available to allow for differences in the images played and in brightness of the room.

- 1 Press **GAMMA** during playback.
 - The current setting appears.
- 2 Press **ENTER** to switch 1,2,3,OFF.
 - 1,2,3 : Makes the dark parts brighter.
 - OFF : Shows the original picture as recorded.
- 3 Press **GAMMA** or **RETURN** to exit.



NOTES:

- The setting will be saved even if the player is turned off.
- This function cannot be used during Rapid Play. (Refer to page13.)

Virtual Surround

DVD

CD

MP3

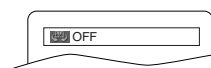
DVD-RW

VCD

VR mode

You can enjoy stereophonic visual space on your existing stereo system.

- 1 Press **MODE** repeatedly until the Virtual Surround screen appears.
- 2 Press **ENTER** to set it to 1 (Natural effect), 2 (Emphasized effect) or OFF.
- 3 Press **MODE** or **RETURN** to exit.





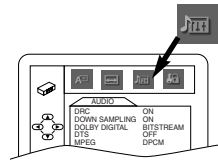
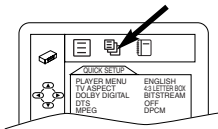
NOTES:

- The setting will be saved even if the player is turned off.
- The setting will not be effective unless the sound mode is set to STEREO. (for CDs or VCDs only)
- Turn down the level or turn it "OFF" if the sound is distorted.
- This function cannot be used during Rapid Play. (Refer to page 13.)

Audio Setting

Choose appropriate settings for best sound reproduction dependent on your externally connected equipment. These settings only affect DVD playback.

- 1** Press **SETUP** in STOP mode.
- 2** Press ◀ or ▶ to select  (CUSTOM), then press **ENTER**.
 - On screen menu will appear.
- 3** Press ◀ or ▶ to select  (AUDIO), then **ENTER** to confirm.
- 4** Press ▲ or ▼ to select the items below, then press **ENTER**.




DRC (Dynamic Range Control) :

- Choose ON to compress the range of sound volume.
- The default setting is ON.
- DRC function is available only on the discs recorded in the Dolby Digital format.


DOWN SAMPLING :

- Choose ON to set down sampling to 48kHz.
- Choose OFF when outputting in the original sound.
- The default setting is ON.
- When playing a disc with copyright protection, the sound will be down sampled at 48kHz even if you set it to OFF.
- DOWN SAMPLING function is available only on digital output of a disc recorded in 96kHz, and when the unit is connected to another source using the digital out jack.
- DOWN SAMPLING function is available only on the discs recorded in the Dolby Digital format.


DOLBY DIGITAL :

- Set to BITSTREAM when the player is connected to Dolby Digital Decoder.
 (BITSTREAM : Output by Dolby Digital)
 (DPCM : Convert the Dolby Digital to PCM)
- The default setting is BITSTREAM.
 - You can also adjust the setting from  (QUICK) setup menu.

DTS :

- Set to BITSTREAM when the player is connected to DTS Decoder.
 (BITSTREAM : Output by DTS)
 • The default setting is OFF.
- You can also adjust the setting from  (QUICK) setup menu).

MPEG :

- Set to BITSTREAM when the player is connected to MPEG Decoder.
 (BITSTREAM : Output by MPEG)
 (DPCM : Convert the MPEG to PCM)
- The default setting is DPCM.
 - You can also adjust the setting from  (QUICK) setup menu.



- 5** Press **SETUP** to exit.

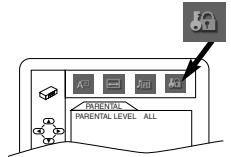
Parental Control

Parental Control prevents disc being viewed that exceed the set limit, unless a password is used. This feature allows you to prevent discs with unsuitable scenes from being played by your children.

PARENTAL LEVEL

Parental Level allows you to set the rating level of your DVDs. Playback will stop if the disc's ratings exceed the level you set.

- 1** Press **SETUP** in STOP mode.
- 2** Press ◀ or ▶ to select  (CUSTOM), then press **ENTER**.
- 3** Press ◀ or ▶ to select  (PARENTAL), then press **ENTER**.
- 4** Enter your four-digit password then press **ENTER**.
- 5** Press ▲ or ▼ to select PARENTAL LEVEL, then press **ENTER**.
- 6** Press ▲ or ▼ to select the desired level (ALL to LEVEL1), then press **ENTER**.
 - The rating levels continue on two menu screens. Press ▲ or ▼ to move to the next or previous screen to find the rating level.
- 7** Press **SETUP** to exit.



NOTES:

- When doing this for the first time, enter any 4 digits (except for 4737). This number will be used as the password from the second time onward.
- To change the password, press ▲ or ▼ to select CHANGE at step **5**, then press **ENTER**. Enter the four-digit password, then press **ENTER**.
- With some DVDs, it may be difficult to find if they are compatible with parental lock. Be sure to check if the parental lock function operates in the way that you have set.
- Record the password in case you forget it.

IF YOU FORGET THE PASSWORD



- 1** Press **4, 7, 3, 7** at step **4** in the PARENTAL LEVEL section.
 - Password will be cleared and parental level will be set to ALL.
- 2** Proceed the steps **4-7** again to set parental level.

PARENTAL CONTROL LEVELS


- **ALL**
 - All parental lock is cancelled.
- **Level 8**
 - DVD software of any grade (adult/general/children) can be played back.
- **Levels 7 to 2**
 - Only DVD software intended for general use and children can be played back.
- **Level 1**
 - Only DVD software intended for children can be played back, with those intended for adult and general use prohibited.

Display Setting

You can change certain aspects of the DVD display screens, on-screen messages and the display panel on the front of the DVD player.

- 1 Press **SETUP** in STOP mode.
- 2 Press ◀ or ▶ to select  (CUSTOM), then press **ENTER**.
 - On screen menu will appear.
- 3 Press ◀ or ▶ to select  (DISPLAY), then **ENTER** to confirm.
- 4 Press ▲ or ▼ to select the below items, then press **ENTER**.

TV ASPECT :

- Press ▲ or ▼ for an item selection, then press **ENTER**.
- Select 4:3 LETTER BOX for a black bars appears on top and bottom of the screen.
- Select 4:3 PAN & SCAN for a full height picture with both sides trimmed.
PAN & SCAN is only available on DVDs recorded with this option, if not LETTER BOX mode will be used.
- Select 16:9 WIDE if a wide-screen TV is connected to the DVD player.
- The default setting is 4:3 LETTER BOX.
- You can also adjust the setting from  (QUICK) setup menu.

STILL MODE :

- Press ▲ or ▼ for an item selection (AUTO, FIELD or FRAME), then press **ENTER**.
- This adjusts the resolution of pictures while in the still (PAUSE) mode.
- AUTO is normally selected (default).
- If you select FIELD, pictures in the still mode will be stabilized although they will be coarse due to little amount of data.
- If you select FRAME, pictures in the still mode will be highly defined although they will be blurred due to output of two fields at the same time.

ANGLE ICON :

- Press **ENTER** repeatedly to turn Angle icon ON or OFF.
- The default setting is ON.

AUTO POWER OFF :

- Press **ENTER** repeatedly to turn Auto Power off ON or OFF.
- The default setting is ON and it will turn the DVD player to off automatically after 35 minutes of no use.

PANEL DISPLAY :

- Press ▲ or ▼ for an item selection BRIGHT, DIMMER or AUTO, then press **ENTER**.
- This adjusts the brightness of the display panel with the factory default BRIGHT.
- When AUTO is selected, the display dims only during playback.
- You can change the PANEL DISPLAY setting (BRIGHT or DIMMER) by pressing **DIMMER** on the remote control.

VIDEO OUT:

- Press **ENTER** repeatedly to turn video out PAL or AUTO.
- The default setting is PAL.

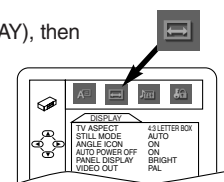
When playing an NTSC disc

- If you have a PAL TV, select PAL; the modified PAL signal will be output.
- If you have an NTSC TV or Multi system TV, select AUTO; the NTSC signal will be output.

- 5 Press **SETUP** to exit.



NOTE:

- Be sure to press **SETUP**, or the setting will not work.



Language Setting

Language options are not available with some discs.

- 1 Press **SETUP** in STOP mode.
- 2 Press ◀ or ▶ to select  (CUSTOM), then press **ENTER**.
 - On screen menu will appear.
- 3 Press ◀ or ▶ to select  (LANGUAGE), then press **ENTER** to confirm.
- 4 Press ▲ or ▼ to select the below items, then press **ENTER**.

AUDIO :

- Sets the audio language.


SUBTITLE :

- Sets the subtitle language.

DISC MENU :

- Sets the language for DVD Menu.

PLAYER MENU :

- Sets the language for the On-Screen display.
- You can also adjust the setting from  (QUICK) setup menu.

- 5 Press ▲ or ▼ to select a setting, then press **ENTER**.
 - If OTHER is selected in the AUDIO, SUBTITLE or DISC MENU screen, press four-digit number to enter the code for the desired language. (Refer to the language code on the next page.)
 - Only the languages supported by the disc can be selected.


- 6 Press **SETUP** to exit.

NOTE:

- Language Setting for Audio and Subtitle is not available with some discs. Then use **AUDIO** and **SUBTITLE**. (Refer to page 17.)

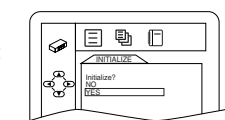
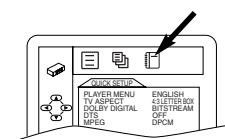
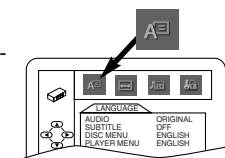
Returning all selections of SETUP (except for PARENTAL) to their default settings

This allows you to return all selections of SETUP (except for PARENTAL) to their default settings.

- 1 Press **SETUP** in STOP mode.
- 2 Press ◀ or ▶ to select  (INITIALIZE), then press **ENTER**.
- 3 Select YES.
- 4 Press **SETUP** to exit.

NOTE:

- When you cancel to initialize at step 3, select NO.



DVD SETUP

<u>Language</u>	<u>Code</u>	<u>Language</u>	<u>Code</u>	<u>Language</u>	<u>Code</u>	<u>Language</u>	<u>Code</u>
	A-B						
Abkhazian	4748	French [FRE]	5264	Macedonian	5957	Siswat	6565
Afar	4747	Frisian	5271	Malagasy	5953	Slovak	6557
Afrikaans	4752	Galician	5358	Malay	5965	Slovenian	6558
Albanian	6563	Georgian	5747	Malayalam	5958	Somali	6561
Amharic	4759	German [GER]	5051	Maltese	5966	Spanish [SPA]	5165
Arabic	4764	Greek [GRE]	5158	Maori	5955	Sundanese	6567
Armenian	5471	Greenlandic	5758	Marathi	5964	Swahili	6569
Assamese	4765	Guarani	5360	Moldavian	5961	Swedish [SWE]	6568
Aymara	4771	Gujarati	5367	Mongolian	5960	T	
Azerbaijani	4772	Hausa	5447	Nauru	6047	Tagalog	6658
Bashkir	4847	Hebrew	5569	Nepali	6051	Tajik	6653
Basque	5167	Hindi	5455	Norwegian [NOR]	6061	Tamil	6647
Bengali; Bangla	4860	Hungarian [HUN]	5467	O-R		Tatar	6666
Bhutani	5072	I-K		Occitan	6149	Telugu	6651
Bihari	4854	Icelandic [ICE]	5565	Oriya	6164	Thai	6654
Bislama	4855	Indonesian	5560	Oromo(Afan)	6159	Tibetan	4861
Breton	4864	Interlingua	5547	Panjabi	6247	Tigrinya	6655
Bulgarian	4853	Interlingue	5551	Pashto; Pushto	6265	Tonga	6661
Burmese	5971	Inupiak	5557	Persian	5247	Tsonga	6665
Byelorussian	4851	Irish [IRI]	5347	Polish	6258	Turkish [TUR]	6664
C-E		Italian [ITA]	5566	Portuguese [POR]	6266	Turkmen	6657
Cambodian	5759	Japanese [JPN]	5647	Quechua	6367	Twi	6669
Catalan	4947	Javanese	5669	Rhaeto-Romance	6459	U-Z	
Chinese [CHI]	7254	Kannada	5760	Romanian [RUM]	6461	Ukrainian	6757
Corsican	4961	Kashmiri	5765	Russian [RUS]	6467	Urdu	6764
Croatian	5464	Kazakh	5757	S		Uzbek	6772
Czech	4965	Kinyarwanda	6469	Samoa	6559	Vietnamese	6855
Danish [DAN]	5047	Kirghiz	5771	Sangho	6553	Volapuk	6861
Dutch [DUT]	6058	Kirundi	6460	Sanskrit	6547	Welsh	4971
English [ENG]	5160	Korean [KOR]	5761	Scots Gaelic	5350	Wolof	6961
Esperanto	5161	Kurdish	5767	Serbian	6564	Xhosa	7054
Estonian	5166	L-N		Serbo-Croatian	6554	Yiddish	5655
F-H		Laothian	5861	Sesotho	6566	Yoruba	7161
Faroese	5261	Latin	5847	Setswana	6660	Zulu	7267
Fiji	5256	Latvian; Lettish	5868	Shona	6560		
Finnish [FIN]	5255	Lingala	5860	Sindhi	6550		
		Lithuanian	5866	Singhalese	6555		

If you choose a Language that has a 3 letter language code, the code will be displayed every time you change the Audio or Subtitle language setting on page 17. If you choose any other languages, '---' will be displayed instead. (3 letter language code is written in bracket.)

TROUBLESHOOTING GUIDE

If the DVD player does not perform properly when operated as instructed in this Operation Manual, check the player, consulting the following checklist.

Problem	Solution
No power	-Check if the AC power cord is properly connected.
No picture	-Check if the TV is switched on. -Check the video connection.
Distorted picture	-Sometimes a small amount of picture distortion may appear. This is not a malfunction.
Completely distorted picture or black/white picture with DVD	-Connect DVD player directly to the TV. -Make sure the disc is compatible with the DVD player.
No sound or distorted sound	-Adjust the volume. -Check that the speakers are connected correctly.
No audio at digital output	-Check the digital connections. -Check if the audio format of the selected audio language matches your receiver capabilities.
No DTS audio at analogue output.	-Use a DIGITAL AUDIO OUT jack when outputting the DTS audio.
No sound and picture	-Check that the VIDEO/AUDIO cable is connected to the correct device (See Connecting to a TV).
Picture freezes momentarily during playback	-Check the disc for fingerprints/scratches and clean with a soft cloth wiping from centre to edge.
Disc can't be played	-Ensure the disc label is facing up. -Check if the disc is defective by trying another disc.
No return to start-up screen when disc is removed	-Reset the player by switching the player off, then on again.
The player does not respond to the remote control	-Aim the remote control directly at the sensor on the front of the player. -Reduce the distance to the player. -Replace the batteries in the remote control. -Re-insert the batteries with their polarities (+/- signs) as indicated.
Buttons do not work or player stops responding	-To completely reset the player, unplug the AC cord from the AC outlet for 5-10 seconds.
Player does not respond to some operating commands during playback.	-Operations may not be permitted by the disc. Refer to the instructions of the disc.
DVD player cannot read CDs/DVDs	-Use a commonly available cleaning CD/DVD to clean the lens before sending the DVD player for repair.

NOTES:

- Some functions are not available in specific modes, but this is not a malfunction. Read the description in this Operation Manual for details on correct operations.
- Playback from a desired track and random playback are not available during programme playback.
- Some functions are prohibited on some discs.

If you are unable to remedy a problem by following these hints, consult your dealer or service centre.

SPECIFICATIONS

PRODUCT TYPE

DVD Player

DISCS (PLAYBACK COMPATIBILITY)

DVD Video

Audio CD

Video CD

CD-R / RW

DVD-R / RW, DVD+R / RW

OUTPUT SIGNAL FORMAT

PAL colour

FREQUENCY RESPONSE

DVD (linear sound) : 20 Hz to 20 kHz (sample rate: 48 kHz)
20 Hz to 44 kHz (sample rate: 96 kHz)

CD : 20 Hz to 20 kHz

SIGNAL-TO-NOISE RATIO (S/N RATIO)

CD : 120 dB (JEITA)

DYNAMIC RANGE

DVD (linear sound) : 102 dB

CD : 99 dB (JEITA)

TOTAL DISTORTION FACTOR

DVD : 0.0025% (JEITA)

CD : 0.003% (JEITA)

WOW AND FLUTTER

Below the measurement limitation (+/-0.001% W PEAK)
(JEITA)

CONNECTIONS

Video output One RCA connector, 1 Vpp (75 ohm)

Component video output One pin jack (Y), 1 Vpp (75 ohm)
Two pin jacks (C_r)/(C_b), 700mVpp
(75 ohm)

S-Video output Mini DIN 4-pin jack (75 ohm)

Analog audio output Two RCA connectors (one left
channel, one right channel)
2 Vrms (47 kilo-ohm)

Coaxial digital audio output One pin jack, 500mVpp (75 ohm)

Optical digital audio output Optical connector

POWER SOURCE

220-240 V ~ +/- 10%, 50/60Hz +/- 0.5%

POWER CONSUMPTION

12W (standby: 1.5W)

OPERATING TEMPERATURE

41F° to 104F° (5°C to 40°C)

DIMENSIONS

W : 435mm

H : 51mm

D : 211mm

WEIGHT

Approx 1.3kg

- Designs and specifications are subject to change without notice.
- If there is a discrepancy between languages, the default language will be English.

MAINTENANCE

Cleaning the Cabinet

- Use a soft cloth slightly moistened with a mild detergent solution. Do not use a solution containing alcohol, spirits, ammonia or abrasives.

Cleaning Discs

- When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the centre out. Do not wipe in a circular motion.
- Do not use solvents such as benzene, thinner, commercially available cleaners, detergent, abrasive cleaning agents or antistatic spray intended for analogue records.

Cleaning the disc lens

- If the player still does not perform properly when it is operated while referring to the relevant sections and to "TROUBLESHOOTING GUIDE" in this Operation Manual, the laser optical pickup unit may be dirty. Consult your dealer or an Authorized Service Centre for inspection and cleaning of the laser optical pickup unit.

Disc Handling

- Use discs which have the following logos on them. (Optical audio digital discs.)



- Handle the discs so that fingerprints and dust do not adhere to the surfaces of the discs.
- Always store the disc in its protective case when it is not used.

Make your contribution to the environment!!!

- Used up batteries do not belong in the dust bin.
- You can dispose of them at a collection point for used up batteries or special waste. Contact your council for details.



SHARP

WARRANTY

Consumer Electronic Products

Congratulations on Your Purchase!

This Sharp product is warranted against faults in materials and manufacture for a period of twelve (12) months from the date of original purchase.

If service is required during the warranty period, please contact your nearest Sharp Approved Service Centre. These repairs would be carried out at no charge to the owner, subject to the conditions specified herein.

The owner is responsible for any transportation and insurance costs if the product has to be returned for repair.

This warranty does not extend to accessories, defects or injuries caused by or resulting from causes not attributable to faulty parts or the manufacture of the product, including but not limited to, defect or injury caused by or resulting from misuse, abuse, neglect, accidental damage, improper voltage, liquid spillage, vermin infestation, software, or any alterations made to the product which are not authorised by Sharp.

Please retain your sales documentation, as this should be produced to validate a warranty claim.

This warranty is in addition to and in no way limits, varies or excludes any express and implied rights and remedies under any relevant legislation in the country of sale.

IMPORTANT DO NOT RETURN THIS PAGE TO SHARP

For your reference, please enter the particulars of your purchase below and retain, with your purchase documentation.

Model No. _____

Serial No. _____

Date of Purchase _____

Retailer _____

FOR LOCATION ENQUIRIES WITHIN

AUSTRALIA

REGARDING YOUR
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SHARP APPROVED SERVICE CENTRE

VISIT OUR WEBSITE AT

www.sharp.net.au

OR CALL SHARP

LOCAL CALL 1 300 135 022

FOR PRODUCTS PURCHASED IN

NEW ZEALAND

CONTACT YOUR SELLING DEALER/RETAILER
OR CALL

SHARP CUSTOMER SERVICES

TELEPHONE: 09 - 573 0111

FACSIMILE: 09 - 573 0113

SHARP CORPORATION OF NEW ZEALAND LIMITED
59 Hugo Johnston Drive, Penrose Auckland

SHARP CORPORATION OF AUSTRALIA PTY. LIMITED
A.B.N. 40 003 039 405
1 Huntingwood Drive Blacktown NSW 2148

IMPORTANT NOTICE: This warranty applies only to products sold in Australia & New Zealand

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E5946AD ★★★★★
9HS0VMN04099