

SHARP®

DVD Video Player

MODEL

DV-SL20U

OPERATION MANUAL



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







For future reference, record the serial number (located on the rear of the Unit) in the space provided.

Model No.: DV-SL20U

Serial No.: _____

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

| | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------------------------|
|  | CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN |  |
| CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. | | |

| | |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
|  | This symbol warns the user of uninsulated voltage within the unit that can cause dangerous electric shocks. |
|  | This symbol alerts the user that there are important operating and maintenance instructions in the literature accompanying this unit. |

“WARNING—FCC Regulations state that any unauthorized changes or modifications to this equipment not expressly approved by the manufacturer could void the user’s authority to operate this equipment.”

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

INFORMATION

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION:


THIS UNIT IS A CLASS 1 LASER PRODUCT.
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 UNIT IS HARMFUL TO THE EYES, DO NOT ATTEMPT TO DISASSEMBLE THE CABINET.
REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

As an Energy Star® Partner, SHARP has determined that this product meets the Energy Star® guidelines for energy efficiency. Energy Star is a U.S. registered mark.

IMPORTANT SAFEGUARDS

- 1) Read Instructions - All the safety and operating instructions should be read before the product is operated.
- 2) Retain Instructions - The safety and operating instructions should be retained for future reference.
- 3) Heed Warnings - All warnings on the product and in the operating instructions should be adhered to.
- 4) Follow Instructions - All operating and use instructions should be followed.
- 5) Cleaning - Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- 6) Attachments - Do not use attachments not recommended by the product manufacturer as they may cause hazards.
- 7) Water and Moisture - Do not use this product near water - for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.
- 8) Accessories - Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

PORTABLE CART WARNING
(Symbol provided by RETAC)



S3125A
- 9) A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.
- 10) Ventilation - Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
- 11) Power Sources - This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.
- 12) Grounding or Polarization - This product may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
- 13) Power-Cord Protection - Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.
- 14) Lightning - For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.
- 15) Power lines - An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
- 16) Overloading - Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
- 17) Object and Liquid Entry - Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
- 18) Servicing - Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
- 19) Damage Requiring Service - Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - a) When the power-supply cord or plug is damaged,
 - b) If liquid has been spilled, or objects have fallen into the product,
 - c) If the product has been exposed to rain or water,
 - d) If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation,
 - e) If the product has been dropped or damaged in any way, and
 - f) When the product exhibits a distinct change in performance - this indicates a need for service.
- 20) Replacement Parts - When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- 21) Safety Check - Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
- 22) Heat - The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

Service

1. Do not attempt to service this Unit yourself. Instead, unplug it and contact a qualified service technician. (See **CONSUMER LIMITED WARRANTY** at the end of this manual.)
2. Be sure the service technician uses authorized replacement parts or their equivalents. Unauthorized parts may cause fire, electrical shock, or other hazards.
3. Following any service or repair, be sure the service technician performs safety checks to certify that this Unit is in safe operating order.

Copy Protection

This Unit supports Macrovision copy protection. On DVD discs that include a copy protection code, if the contents of the DVD disc 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

This Unit is a precision device constructed using extremely accurate technology.

- The disc cannot be played if the disc drive component is worn out or if the internal pick up lens is dirty.
- To obtain optimum picture quality, the Unit should be checked (cleaning 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 Unit is used. Contact your authorized Sharp supplier for details.

Warning of Dew Formation

Dew 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 unit is suddenly moved from a cold environment to a warm one.

If dew forms inside this unit, it may not operate properly.

In this case, turn on the power and wait about one hour for the dew to evaporate.

Others

It is the intent of Sharp that this product be used in full compliance with the copyright laws of the United States and that prior permission be obtained from copyright owners whenever necessary.

“Licensed under one or more of U.S. Pat. 4,972,484, 5,214,678, 5,323,396, 5,530,655, 5,539,829, 5,544,247, 5,606,618, 5,610,985, 5,740,317, 5,777,992, 5,878,080, or 5,960,037.”

FEATURES

● Progressive Scan system

● 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

● Random playback for audio CD and MP3

● Program playback for audio CD and MP3

● DVD menus in a desired language

● Screen saver/Auto power-off functions

The screen saver program starts when there is no input from the player for five minutes in the stop mode. When the screen saver program 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 or MP3 on disc.

● Playing an MP3 disc

● Direct Search

● DTS (Digital theater System)

Sound system different from Dolby Digital sound system.

● 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 program 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 & Black Level Setting

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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-RW/R discs)

CD

: Description refers to playback of audio 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 program or "manual mode" for recording in desired resolution and time.

☰ (QUICK)

: You can select the setting item by pressing ☰ (QUICK setup menu) as more quick way than selecting from ⏏. (Refer to pages 14 and 15.)

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

Supplied Accessories

- Remote control (9HSNA520UD)
- Two AA batteries
- Operation Manual
- VIDEO/AUDIO cables

ABOUT THE DISCS

Playable Discs

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

- DVD video
- DVD-R/RW*
- Audio CD
- CD-R/RW*
- MP3*

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

- Some 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 be played back properly due to the different environment or the settings of the application you use. We recommend always to use the standardized, rightly formatted discs. (Please contact the sales agency for more detail).

This player conforms to the NTSC color system. You cannot play discs recorded in other color systems such as PAL or SECAM.

- 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).

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

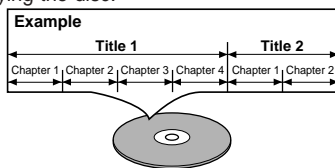
- DVD with region codes other than 1 or ALL.
- DVD-ROM
- DVD-RAM (Never play back, otherwise malfunction may result.)
- CD-ROM
- VSD
- CDV (Only plays back the audio part.)
- CD-G (Only plays back the sound.)
- CD-I (Never play back, otherwise malfunction may result.)
- Super Audio CD
- Photo CD (Never play back, otherwise malfunction may result.)
- Video CD (Never play back, otherwise malfunction may result.)

Any other discs without compatibility indications.

Disc Types

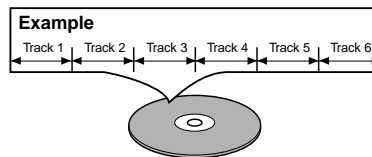
[DVD]

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.



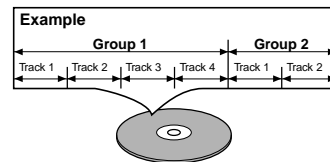
[Audio CD]

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



[MP3]

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



Selecting Progressive Scan (480p or Interlaced 480i) Playback

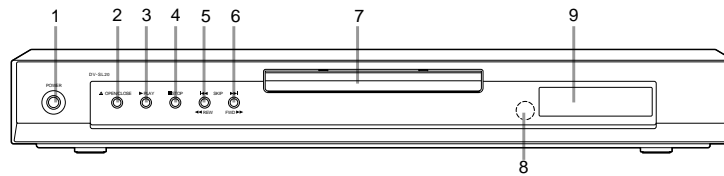
- If your TV is compatible with progressive scanning (480p), connect the TV to the Component Video Output jacks of the DVD player and set the INTERLACE/PROGRESSIVE SCAN SELECTOR on the back of the DVD player to PROGRESSIVE. Next, set your TV to the progressive scan mode.
- If your TV is not compatible with progressive scan, set the INTERLACE/PROGRESSIVE SCAN SELECTOR to INTERLACE.
- Use a commercially available adaptor if the video input jacks of your TVs or monitors are the BNC type.

What is Progressive Scanning?

- Unlike conventional interlace scanning, the progressive scan system provides less flickering and images in higher resolution than that of traditional (480i) television signals.
- When PROGRESSIVE is selected, no video signal will be output from the VIDEO OUT, or S-VIDEO OUT jack.

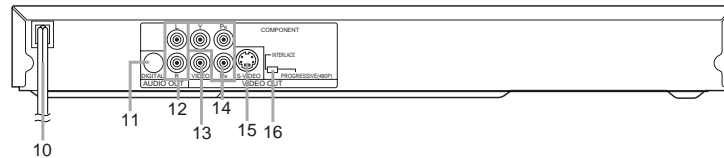
FUNCTIONAL OVERVIEW

FRONT PANEL



[Fig. 1]

REAR VIEW

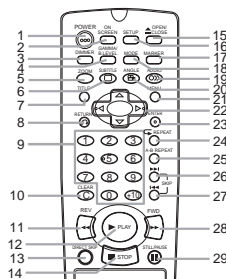


[Fig. 2]

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

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

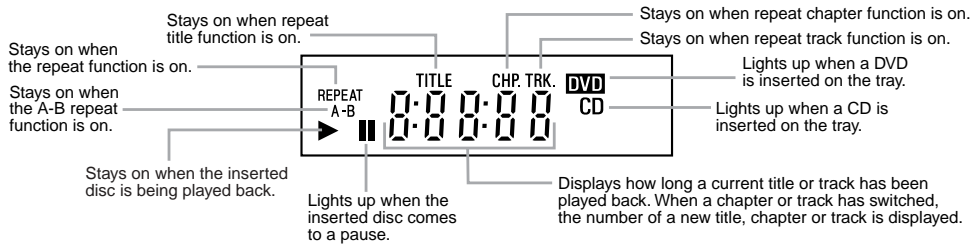


[Fig. 3]

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

FUNCTIONAL OVERVIEW

Display



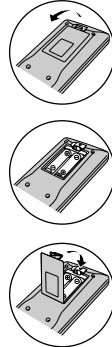
[Fig. 4]

Displays During Operation

| | |
|--|--------------------------------------|
| | Power on |
| | No disc inserted or playing DVD Menu |
| | Tray open |
| | Tray closed |
| | Loading the Disc |
| | 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.

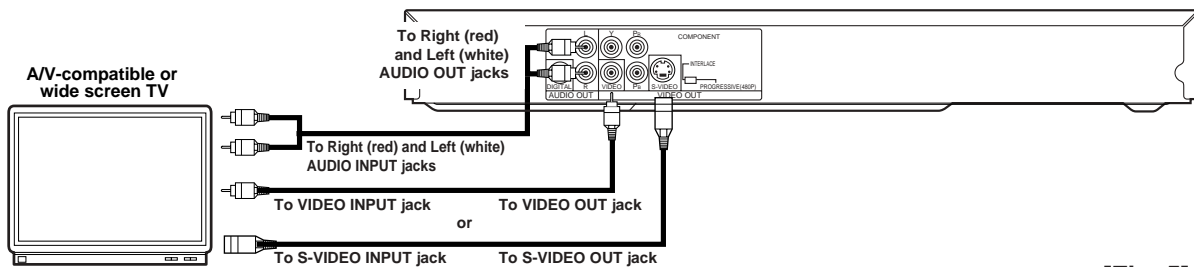
HOOK UPS

CAUTION:

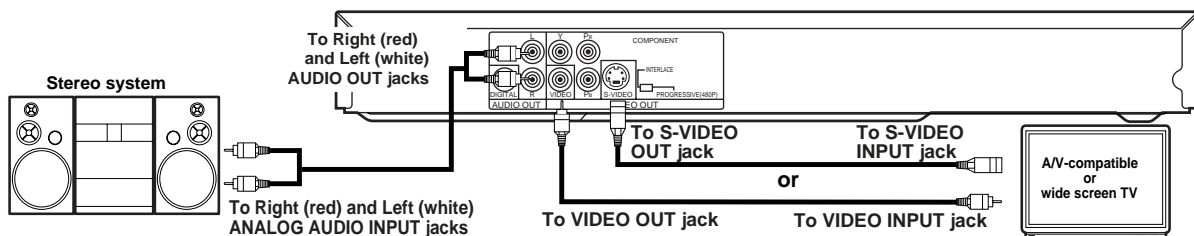
- Be sure to turn off the Player and equipment to be connected before connecting.
- Read through the operation manual for the equipment to be connected.
- Be sure that the colors of the jacks and plugs match up when using VIDEO/AUDIO cables.
- Be sure to keep the Player connection cables separate from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

Connecting to a TV using a VIDEO OUT Jack or a S-VIDEO OUT Jack

Use an S-Video cable (commercially available) in place of the yellow video cable to enjoy pictures at higher quality.



[Fig. 5]



[Fig. 6]

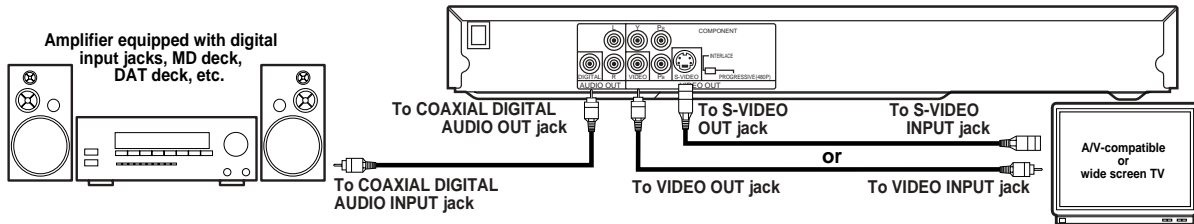
HOOK UPS

NOTES:

- Connect the DVD player directly to a TV. If the A/V cables are connected to a VCR, pictures may be distorted due to the copy protection system.
- Be sure to turn off the power to all components in the system before connecting another component.
- Refer to the Operation Manuals for your TV, stereo system and any other components to be connected to the DVD player.

Connecting to an Amplifier Equipped with Digital Input Jacks such as MD deck or DAT deck

Use an audio coaxial digital cables (not included) for the audio connections. Connecting to an amplifier equipped with digital input jacks such as MD Deck or Dat Deck.



[Fig. 7]

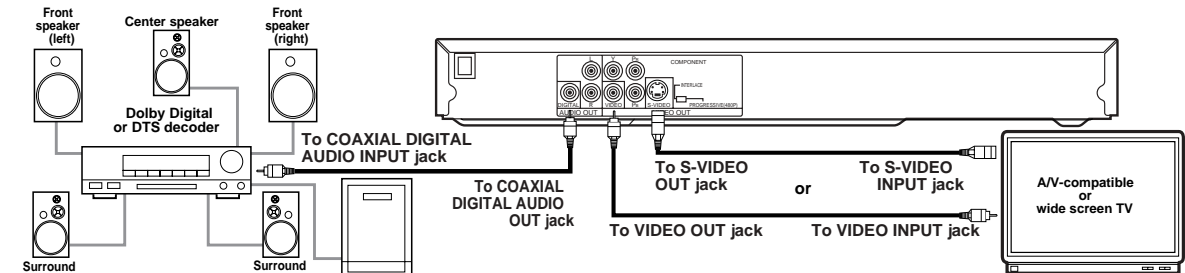
NOTES:

- The audio source on a disc in a 5.1 channel Dolby Digital surround format cannot be recorded as digital sound by an MD or DAT deck.
- Set Dolby Digital to DPCM and DTS to OFF for audio output in the setup mode. Playing a DVD using incorrect settings may generate noise distortion, and may also damage the speakers. (See page 14 to set ON for Dolby Digital)

Connecting to a Dolby Digital decoder or DTS decoder

If using this DVD player to play back a DVD in a 5.1 channel Dolby Digital surround or DTS surround format, the DVD player outputs a Dolby Digital or DTS data stream from its COAXIAL DIGITAL AUDIO OUT jack. By hooking the player up to a Dolby Digital or DTS decoder, you can enjoy a more convincing, realistic ambience with powerful and high-quality surround sound of a professional standard such as can be heard in movie theaters.

Use audio coaxial digital cables (commercially available) for the audio connections.

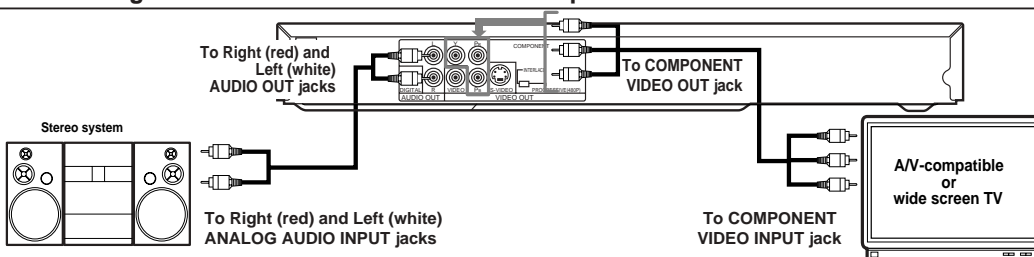


[Fig. 8]

NOTES:

- If output Dolby Digital or DTS audio, connect to a Dolby Digital or DTS decoder, and set Dolby Digital or DTS to BITSTREAM for audio output in the setup mode.
- Unless connected to a Dolby Digital or DTS decoder, set Dolby Digital to DPCM or DTS to OFF for audio output in the setup mode. Playing a DVD using incorrect settings may generate noise distortion, and may also damage the speakers.

Connecting to a TV or a Stereo TV that has Component VIDEO In Jacks



[Fig. 9]

NOTE:

- If your TV is compatible with progressive scanning (480p), connect the TV to the Component Video Output jacks of the DVD player, and make sure INTERLACE/PROGRESSIVE SCAN SELECTOR is set to PROGRESSIVE.

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 DVD discs will not be as good if the DVD player is connected to the TV's antenna terminal through an RF Modulator.

PLAYING A DISC

Basic Playback

DVD CD DVD-RW
VR mode

Getting started

- Turn on the power of the TV, amplifier and any other components which are connected to the DVD.
- Make sure the TV and audio receiver (commercially available) are set to the correct channel.

1 Press POWER.

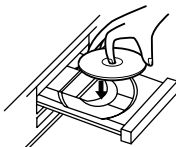
- "P-ON" will appear briefly on the display panel.

2 Press OPEN/CLOSE to open disc loading tray.

3 Place the chosen disc in 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 program 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

DVD may contain menus to navigate the disc and access special features. Press the appropriate numerical key 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. Some operations can be carried out using the menu bar on the TV screen.

Pause

DVD CD MP3 DVD-RW
VR mode

1 During playback, press STILL/PAUSE.

- Playback will pause and sound will be muted.

2 To continue playback, press PLAY.

Disc Menus

DVD

1 Press MENU.

- The DVD main menu will appear.

2 If the feature is not available, a prohibited icon 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.

Title Menu

DVD

1 Press TITLE.

- The title menu will appear.

2 If the feature is not available, a prohibited icon 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.

CALLING UP A MENU SCREEN DURING PLAYBACK

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

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

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.

Resume / Stop

DVD CD

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.

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

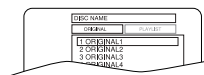
DVD-RW
VR mode

You can choose ORIGINAL or PLAYLIST when you play the disc which had set the PLAYLIST.

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 list for editing.

- 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 is not affect the sound when using a digital connection.

PLAYING A DISC

Fast Forward / Reverse Search

DVD CD MP3 DVD-RW
VR mode

- During playback, press **FWD** or **REV** repeatedly to select the required forward or reverse speed: x2, x8, x50, x100.
 - If you are using **SKIP** / **SEARCH** on the front panel, press and hold it for more than 1.5 sec (the longer you hold it, the faster the speed will be). When you reach the desired speed, release the button.
 - For audio CDs, the speed is fixed at x16.
 - For MP3, the speed is fixed at x8.
- To return to normal playback, press **PLAY**.

Slow Forward / Slow Reverse

DVD DVD-RW
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: 1/16, 1/8, 1/2 of the normal playback.
 - If you are using **SKIP** / **SEARCH** on the front panel, press and hold it for more than 1.5 sec (the longer you hold it, the slower the speed will be). When you reach the desired speed, release the button.
- To return to normal playback, press **PLAY**.

Zoom

DVD DVD-RW
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.

Track

CD

There are three ways to begin playback on an Audio CD at a specific Track.

Using the Numerical buttons

- Press **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 button.

Using the DIRECT SKIP.

- Press **DIRECT SKIP**.
 - The track search display appears.

- Within 30 seconds, select a desired track number using **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 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.

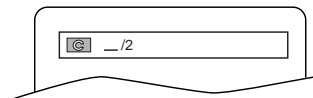
NOTE:

- SKIP are not available when playback is stopped.

Title / Chapter Search

DVD DVD-RW
VR mode

- Press **DIRECT SKIP** once for the Chapter search, twice for the Title search during playback.



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

Time Search

DVD CD DVD-RW
VR mode

- During playback, press **DIRECT SKIP** three times (CD: twice) to display the Time Search on the TV screen.
- Within 30 seconds, enter a desired disc time using **numerical buttons**.
 - Playback will start at the specified time.
- Press **CLEAR** to erase the incorrect input.

Repeat

- REPEAT are available only during playback.

REPEAT TITLE / CHAPTER

DVD DVD-RW
VR mode

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

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



NOTES:

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

PLAYING A DISC

REPEAT TRACK

CD

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.

A-B REPEAT

DVD

CD

DVD-RW
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.

Program

CD

You may determine the order in which tracks will play.

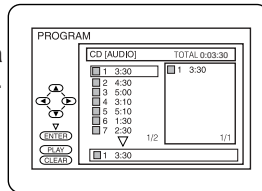
1 In stop mode press **MODE**.

- The PROGRAM screen will appear.

2 Press **▲** or **▼** to select a track, then press **ENTER**.

- Press **CLEAR** to erase the most recently entered program.

3 Press **PLAY** to play the programmed tracks.



NOTES:

- While the program 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. (Program continued)
- Press **STOP** twice and then **PLAY** again, playback will restart from the track in the usual way. (Program cleared)
- Up to 99 programs can be entered.
- If you like to repeat the current track in the program, press **REPEAT** repeatedly until **TRACK** appears during playback. If you like to repeat the entire program press **REPEAT** repeatedly until **ALL** appears during playback.

Random Playback

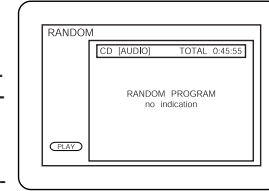
CD

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

1 In stop mode, press **MODE** twice.

- RANDOM screen appears.

2 Press **PLAY** to start random playback.



NOTES:

- If you like to repeat the current track in the random selection, press **REPEAT** repeatedly until **TRACK** appears during playback. If you like to repeat the entire random selection press **REPEAT** repeatedly until **ALL** appears during playback.

MP3 Playback

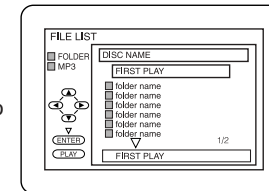
MP3

When a CD with MP3 files is inserted in the DVD player, the MP3 menu will appear on the TV screen, and number of tracks is displayed on the front panel.

1 In stop mode, press **▲** or **▼** to select the desired group or track.

- If a group 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 you've just chosen the subsequent tracks will be played.



- Choose **FIRST PLAY** to start playback from the beginning of the listed tracks.

- 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.
- MP3 files are accompanied by **MP3** icon.
- Maximum of 255 folders can be recognized.
- Maximum of 256 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.

On-Screen Information

MP3

You can check the MP3 files during playback.

1 Press **ONSCREEN**.

- The name of the file currently in play will be displayed.

2 Press **ONSCREEN** again to show the track number, the elapsed time, the repeat status, and the playback status at the top of the screen.

- T** will be displayed when the repeat play has been selected.

T - indicates Track repeat

G - indicates Group (folder) repeat

A - indicates Disc repeat

3 Press **ONSCREEN** again to exit.

PLAYING A DISC

Track Selection

MP3

- 1 Press **DIRECT SKIP** during playback.
 - The FILE LIST will appear.
- 2 Select a desired track using **Arrow** (▼/▲/▶/◀).
 - Press ▶ when you want to go to the next hierarchy.
 - Press ◀ when you want to go back to the previous hierarchy.
- 3 Press **PLAY** to start playing

NOTES:

- Press **DIRECT SKIP** to EXIT.
- Some selections may take a while to be recognized.

Random Playback

MP3

- 1 Press **MODE** twice while playback is stopped.
- 2 Press **PLAY** to play the tracks in random order.

Program

MP3

This feature allows you to program a mp3 disc to play in a desired sequence.

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

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:

- 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.
- The sound mode cannot be changed during playback of discs not recorded in double sound.

Stereo Sound Mode

CD

- 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.

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:

- Pressing **AUDIO** may not work on some DVDs with multiple audio languages (e.g. DVDs which allow audio language setting on the disc menu).
- 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 15.)

Camera Angle

DVD

Some DVD discs contain scenes which have been shot simultaneously from various angles. You can change the camera angle when the (CAM) icon appears on the screen.

- 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 **ONSCREEN** on the remote control.

- 1 Press **ONSCREEN** during playback to show current Chapter.
 - The elapsed and remaining playing time of the current chapter will be displayed.
- 2 Press **ONSCREEN** again to show current Title.
 - The elapsed and remaining playing time of the current title will be displayed.
- 3 Press **ONSCREEN** 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 **ONSCREEN** the fourth time to remove the display.

CD

- 1 Press **ONSCREEN** 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 **ONSCREEN** again to show current Total Track.
 - The elapsed and remaining playing time of the current total track will be displayed.
- 3 Press **ONSCREEN** again to remove the display.

DVD SETUP

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.

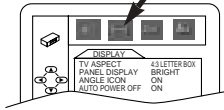
1 Press **SETUP** in STOP mode.

2 Press **▶** 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.
- 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.

PANEL DISPLAY :

- Press **▲** or **▼** for an item select BRIGHT, DIMMER and AUTO, then press **ENTER**.
- This adjust the brightness of the display panel with the factory default BRIGHT.
- When AUTO is selected, the display dims only during playback.

NOTE:

- You can change the PANEL DISPLAY setting (BRIGHT or DIMMER) by pressing **DIMMER** on the remote control.

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.

5 Press **SETUP** to exit.

NOTES:

- Be sure to press the **SETUP** button, or the setting will not work.
- You can also choose the item by pressing the numbers.

Language Setting

Language options are not available with some discs.

1 Press **SETUP** in STOP mode.

2 Press **▶** to select **Ⓜ**, then press **ENTER**.

- On screen menu will appear.

3 Press **◀** or **▶** to select **Ⓜ** (LANGUAGE), then **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 change the setting from **Ⓜ** (QUICK) setup menu.

5 Press **▲** or **▼** to select a setting, then press

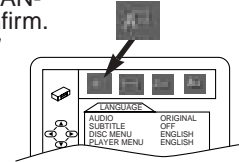
ENTER.

- 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 list below).
- 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**. Details are on page 13.



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

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 13. 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). –Check if the INTERLACE/PROGRESSIVE SCAN SELECTOR is set correctly according to your TV. |
| Picture freezes momentarily during playback | –Check the disc for fingerprints/scratches and clean with a soft cloth wiping from center 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 program playback.

SPECIFICATIONS

OUTPUT SIGNAL FORMAT

NTSC color

POWER SOURCE

120 V AC +/- 10%, 60 Hz +/- 0.5%

POWER CONSUMPTION

11 W (standby: 0.3W)

OPERATING TEMPERATURE

41F° to 104F° (5°C to 40°C)

DIMENSIONS

W: 17 9/64" (435mm)

H: 2 11/64" (55mm)

D: 8 5/16" (211mm)

WEIGHT

Approx 4.0lbs. (1.8kg)

- 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 center out. Do not wipe in a circular motion.
- Do not use solvents such as benzine, 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 Center 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.

SERVICE INFORMATION (For the U.S.)

For the location of the nearest Sharp Authorized Service Center, or to obtain product literature, accessories, supplies or customer assistance, please call **1-800-BE-SHARP** (1-800-237-4277) or visit SHARP's website (<http://www.sharpusa.com>).

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.



CONTROLES DE OPERACIÓN Y FUNCIONES

PANEL DELANTERO / VISTA TRASERA

Consulte la figura 1, 2 da la página 7.

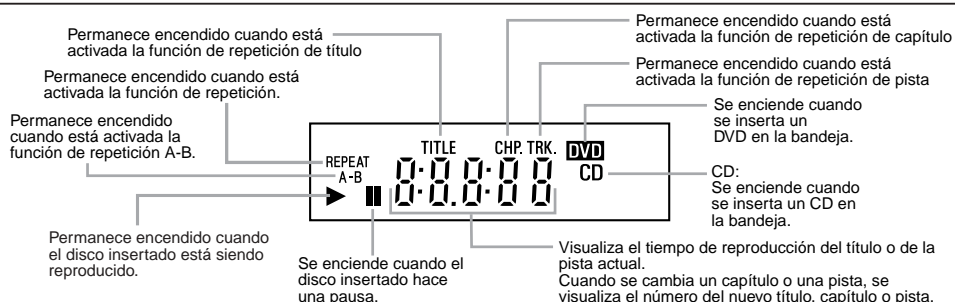
1. **Botón de la alimentación**
Púlselo para conectar y desconectar la alimentación.
2. **Botón de apertura/cierre (OPEN/CLOSE)**
Púlselo para introducir discos en la bandeja o sacarlos de ella.
3. **Botón de reproducción (PLAY)**
Inicie la reproducción del contenido del disco.
4. **Botón de parada (STOP)**
Detiene la operación del disco.
5. **Botón de salto descendente/retroceso rápido (SKIP ◀/SEARCH ◀◀)**
Inicia la reproducción desde el principio del capítulo o pista actual. Manténgalo pulsado para que la reproducción retroceda rápidamente.
6. **Botón de salto ascendente/avance rápido (SKIP ▶▶/SEARCH ▶▶)**
Inicia la reproducción desde el principio del capítulo o pista siguiente. Manténgalo pulsado para que la reproducción avance rápidamente.
7. **Bandeja de disco**
8. **Ventana del sensor del mando a distancia**
9. **Visualizador**
10. **Cable de alimentación (AC Power Cord)**
Conecte a una toma de alimentación.
11. **Toma de salida de audio digital coaxial (Digital audio out)**
12. **Toma de salida de audio (AUDIO OUT Left/Right)**
13. **Toma de salida de vídeo (VIDEO OUT)**
14. **Toma de salida de vídeo componente**
15. **Toma de salida de vídeo S (S-VIDEO OUT)**
16. **Selector de exploración entrelazada/progresiva (INTERLACE/PROGRESSIVE SCAN SELECTOR)**
Para seleccionar la exploración entrelazada o progresiva.

MANDO A DISTANCIA

Consulte la figura 3 da la página 7.

1. **Botón de la alimentación (POWER)**
Púlselo para conectar y desconectar la alimentación.
2. **Botón de visualización (ON SCREEN)**
Muestra el estado actual en la pantalla del televisor con fines de comprobación.
3. **Botón de palidez (DIMMER)**
Púlselo para cambiar el ajuste de visualización en la pantalla.
4. **Botón de gamma/nivel del negro (GAMMA/B.LEVEL)**
Púlselo para cambiar el ajuste de niveles de control.
5. **Botón del ZOOM**
Amplia parte de una imagen de DVD reproducida.
6. **Botón de subtítulos (SUBTITLE)**
Púlselo para seleccionar el idioma de subtítulos deseado.
7. **Botón de titulación (TITLE)**
Visualiza el menú de títulos.
8. **Botón de retorno (RETURN)**
Púlselo para volver a la operación anterior.
9. **Botones numéricos**
10. **Botón de cancelación (CLEAR)**
Repone un ajuste.
11. **Botón de retroceso rápido (REV)**
Manténgalo pulsado para que la reproducción retroceda rápidamente.
12. **Botón de reproducción (PLAY)**
Inicie la reproducción del contenido del disco.
13. **Botón del modo de búsqueda (DIRECT SKIP)**
Púlselo para localizar un punto deseado.
14. **Botón de parada (STOP)**
Detiene la operación del disco.
15. **Botón de apertura/cierre (OPEN/CLOSE)**
Púlselo para introducir discos en la bandeja o sacarlos de ella.
16. **Botón de preparación (SETUP)**
Púlselo para entrar en el modo de preparación o para cambiar elementos de preparación.
17. **Botón del marcador (MARKER)**
Púlselo para volver a llamar la visualización de marcador.
18. **Botón de modo (MODE)**
Activa el modo de reproducción programada o el modo de reproducción aleatoria. (CD/MP3)
Para activar el sonido 3D. (DVD)
19. **Botón de AUDIO**
Púlselo para seleccionar el modo de sonido o el idioma de audio deseado.
20. **Botón de ángulos (ANGLE)**
Púlselo para cambiar el ángulo de la cámara y ver desde un ángulo diferente la secuencia que está siendo reproducida.
21. **Botón de MENU** Visualiza los menús DVD.
22. **Botones numéricos**
23. **Botón de introducción (ENTER)**
Púlselo para aceptar un ajuste.
24. **Botón de repetición (REPEAT)**
Repite la reproducción del disco, título, capítulo o pista actual.
25. **Botón de repetición A-B (A-B REPEAT)**
Repite la reproducción de una sección seleccionada.
26. **Botón de salto ascendente (SKIP UP)**
Inicia la reproducción desde el principio del capítulo o pista siguiente.
27. **Botón de salto descendente (SKIP DOWN)**
Inicia la reproducción desde el principio del capítulo o pista siguiente.
28. **Botón de avance rápido (FWD)**
Manténgalo pulsado para que la reproducción avance rápidamente.
29. **Botón del pausa / imagen fija (STILL/PAUSE)**
Permite hacer una pausa temporal en la reproducción / reproducción cuadro a cuadro.

Visualización



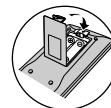
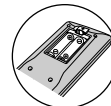
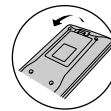
CONTROLES DE OPERACIÓN Y FUNCIONES

Visualizaciones Durante la Operación

| | |
|--|------------------------------------------------------|
| | Conexión de alimentación |
| | No hay disco insertado o reproducción de un DVD menú |
| | Bandeja abierta |
| | Bandeja cerrada |
| | Carga del disco |
| | Desconexión de alimentación |

Instalación de las Pilas

1. Abra la tapa del compartimento de las pilas.
2. Introduzca dos pilas AA con las polaridades colocadas correctamente.
3. Cierre la tapa.



NOTAS

- No mezcle pilas alcalinas y de manganeso.
- No mezcle pilas viejas y nuevas.

CONEXIONES

Conexión a un Televisor

Utilice un cable de vídeo S (de venta en el comercio) en lugar del cable de vídeo amarillo para disfrutar de imágenes de más alta calidad.

Consulte la figura 5 de la página 8

Consulte la figura 6 de la página 8

Conexión a un Amplificador Equipado con tomas de Entrada Digital, Platina MD o Platina DAT

Para hacer las conexiones de audio utilice cables digitales coaxiales de audio (de venta en el comercio).

Consulte la figura 7 de la página 9

Conexión a un Descodificador Dolby Digital o Descodificador DTS

Si utiliza este reproductor DVD para reproducir un DVD en un formato de sonido ambiental Dolby Digital de 5,1 canales o sonido ambiental DTS, el reproductor DVD dará salida a un flujo de datos Dolby Digital o DTS desde su toma COAXIAL DIGITAL AUDIO OUT. Conectando el reproductor a un decodificador Dolby Digital o DTS, usted podrá disfrutar de un ambiente más convincente y real, con un sonido ambiental potente y de alta calidad de estándar profesional como el que puede oírse en los cines.

Para hacer las conexiones de audio utilice cables digitales coaxiales de audio (de venta en el comercio).

Consulte la figura 8 de la página 9

Conexión a un Televisor o a un Televisor Estéreo Que tenga tomas Component Video in

Consulte la figura 9 de la página 9

REPRODUCCIÓN DE UN DISCO

Reproducción de un DVD de Vídeo o un CD de Audio

DVD

CD

DVD-RW

VR mode

Para empezar

Conecte la alimentación del televisor, amplificador y cualquier otro componente que esté conectado al reproductor DVD. (Cambie el sistema de entrada para adaptarlo al reproductor DVD, y compruebe que el volumen del sonido sea correcto.)

1 Pulse el botón **POWER**.

- La alimentación se conectará.

2 Pulse el botón **OPEN/CLOSE**.

- La bandeja de carga del disco se abrirá.

3 Ponga un disco en la bandeja.

- Asegúrese de que el disco esté correctamente asentado en el hueco correcto, con el lado de la etiqueta hacia arriba.

4 Pulse el botón **PLAY**.

- La bandeja se cerrará automáticamente y la reproducción empezará desde el primer capítulo o pista del disco. Necesitará pulsar el botón **PLAY** sólo cuando la bandeja haya sido cerrada pulsando el botón **OPEN/CLOSE**.
- Cuando reproduzca un DVD que tenga grabado un menú de títulos, el menú tal vez aparezca en la pantalla.

5 Pulse el botón **STOP** para detener la reproducción.

CONSUMER LIMITED WARRANTY

(Valid for warranty service in the U.S. only)

CONSUMER LIMITED WARRANTY

SHARP ELECTRONICS CORPORATION warrants to the first consumer purchaser that this Sharp brand product (the "Product"), when shipped in its original container, will be free from defective workmanship and materials, and agrees that it will, at its option, either repair the defect or replace the defective Product or part thereof with a new or remanufactured equivalent at no charge to the purchaser for parts or labor for the period(s) set forth below.

This warranty does not apply to any appearance items of the Product nor to the additional excluded item(s) set forth below nor to any Product the exterior of which has been damaged or defaced, which has been subjected to improper voltage or other misuse, abnormal service or handling, or which has been altered or modified in design or construction.

In order to enforce the rights under this limited warranty, the purchaser should follow the steps set forth below and provide proof of purchase to the servicer.

The limited warranty described herein is in addition to whatever implied warranties may be granted to purchasers by law. ALL IMPLIED WARRANTIES INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR USE ARE LIMITED TO THE PERIOD(S) FROM THE DATE OF PURCHASE SET FORTH BELOW. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

Neither the sales personnel of the seller nor any other person is authorized to make any warranties other than those described herein, or to extend the duration of any warranties beyond the time period described herein on behalf of Sharp.

The warranties described herein shall be the sole and exclusive warranties granted by Sharp and shall be the sole and exclusive remedy available to the purchaser. Correction of defects, in the manner and for the period of time described herein, shall constitute complete fulfillment of all liabilities and responsibilities of Sharp to the purchaser with respect to the Product, and shall constitute full satisfaction of all claims, whether based on contract, negligence, strict liability or otherwise. In no event shall Sharp be liable, or in any way responsible, for any damages or defects in the Product which were caused by repairs or attempted repairs performed by anyone other than an authorized servicer. Nor shall Sharp be liable or in any way responsible for any incidental or consequential economic or property damage. Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

Model Specific Section

Your Product Model Number & Description: DV-SL20U DVD Video Player
(Be sure to have this information available when you need service for your Product.)

Warranty Period for this Product: One (1) year parts and ninety (90) days labor from date of purchase.

Additional Item(s) Excluded from Warranty Coverage (if any): Non-rechargeable batteries.

Where to Obtain Service: Call Sharp Electronics corporation toll free at 1-800-BE-SHARP for instructions on how to obtain service on your DVD player.

What to do to Obtain Service: Ship your product, prepaid, as per the instruction given by the Sharp representative at the toll free number (1-800-BE-SHARP). BE sure to have your proof of purchase available. Be sure to ship the product securely packaged and insured against shipping damage.

TO OBTAIN SUPPLY, ACCESSORY OR PRODUCT INFORMATION, GO TO OUR WEBSITE AT www.sharpusa.com OR CALL **1-800-BE-SHARP**.

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