



The Faroudja DV1000 High Resolution DVD/CD Player

Installation & Operation Instructions


FAROUDJA
PICTURE PLUS™



DVD Operations Manual Features

Thank you for purchasing the Faroudja DV1000 High Resolution DVD player. The DV1000 represents the realization of performance goals set by Yves Faroudja to design a DVD player offering state-of-the-art video and audio processing that takes full advantage of the phenomenal performance available on Digital Video Discs and audio CDs.

Advanced Video Features

- High performance component (Y, Cr, Cb) video outputs with BNC type connectors.
- Professional quality components for increased video bandwidth; greatly improving image detail.
- A patented Faroudja custom ASIC (Application Specific Integrated Circuit) Detail Enhancement is added to increase the apparent bandwidth of the picture providing a greater level of detail. Four levels are available.
- Precise time alignment of both the component and S-Video signals.
- Dual optical laser pickup for optimum digital tracking of either DVDs or CDs.
- Increased flexibility with selectable sync-on-green plus TTL or Video sync selection.

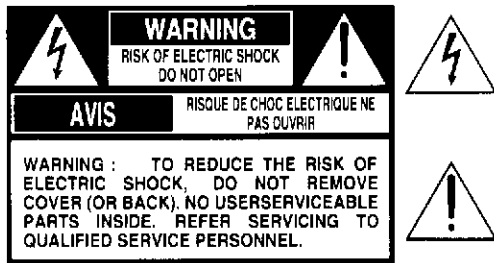
Advanced Audio Features

- Advanced digital audio reclocking technologies are applied to significantly reduce clock jitter. This results in superior audio resolution for audiophile performance from both CDs and DVDs. A sophisticated optically decoupled phase-lock-loop 48KHz Voltage-Control Crystal Oscillator is used to time-filter the digital audio stream .
- Audiophile grade digital outputs: ST-Glass optical, calibrated AES/EBU balanced XLR and 75-ohm coaxial.
- Direct PC-board mounting of coaxial and ST-glass outputs eliminates internal cable reflections after reclocking circuitry
- Full AC-3 and DTS compatibility.
- Linear PCM two-channel Dolby Surround-compatible mixdown (DVD).

Additional Features

- Deluxe heavy-gauge vibration resistant chassis
- Rack mount kit included
- Two-way RS232 remote control.
Full-function infrared remote control.

SAFETY PRECAUTIONS



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. DANGEROUS HIGH VOLTAGES ARE PRESENT INSIDE THE ENCLOSURE. DO NOT OPEN THE CABINET. REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

ATTENTION: POUR EVITER LES CHOCS ELECTRIQUE, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU' AU FOND.

CAUTION: This Digital Video Disc Player employs a Laser System.

To ensure proper use of this product, please read this owner's manual carefully and retain for future reference, should the unit require maintenance, contact an authorized service location - see service procedure.

Use of controls, adjustments or the performance of procedures other than those specified may result herein hazardous radiation exposure.

To prevent direct exposure to laser beam, do not try to open the enclosure. Visible laser radiation when open the enclosure and interlock defeated.
DO NOT STARE INTO BEAM.

In the spaces provided below, record the Model and Serial No. located on the rear panel of your DVD video player.

Model No. _____

Serial No. _____

Retain this information for future reference.

IMPORTANT SAFETY INSTRUCTIONS

CAUTION: PLEASE READ AND OBSERVE ALL WARNINGS AND INSTRUCTIONS GIVEN IN THIS OWNER'S MANUAL AND THOSE MARKED ON THE UNIT. RETAIN THIS BOOKLET FOR FUTURE REFERENCE.

This set has been designed and manufactured to assure personal safety. Improper use can result in electric shock or fire hazard. The safeguards incorporated in this unit will protect you if you observe the following procedures for installation, use and servicing. This unit is fully transistorized and does not contain any parts that can be repaired by the user.

DO NOT REMOVE THE CABINET COVER, OR YOU MAY BE EXPOSED TO DANGEROUS VOLTAGE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL ONLY.

1. Read owner's manual

After unpacking this product, read the owner's manual carefully, and follow all the operating and other instructions.



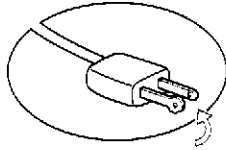
2. Power Sources

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.



3. 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.



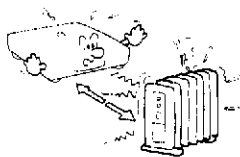
4. Ventilation

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.



5. Heat

The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.



6. 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.



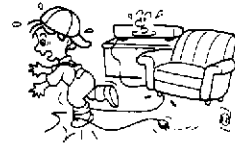
7. Cleaning

Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.



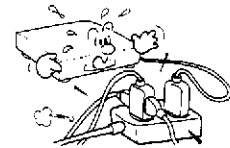
8. Power-Cord Protection

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.



9. Overloading

Do not overload wall outlets; extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.



10. Lightning

For added protection for this product during storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet. This will prevent damage to the product due to lightning and power-line surges.



IMPORTANT SAFETY INSTRUCTIONS

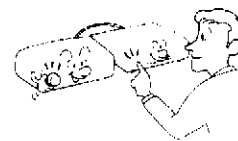
11. Object and Liquid Entry

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.



17. Sound Volume

Reduce the volume to the minimum level before you turn on the product. Otherwise, sudden high volume sound may be output and cause hearing or speaker damage.

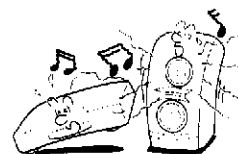


12. Attachments

Do not use attachments not recommended by the product manufacturer as they may cause hazards.

18. Sound Distortion

Do not allow the product to output distorted sound for a long time. It may cause speaker overheating and fire.



13. 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. 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.



19. Headphones

When you use the headphones, keep the volume at a moderate level. If you use the headphones continuously with high volume sound, it may cause hearing damage.



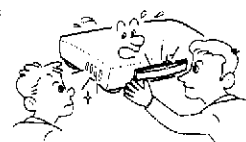
14. Disc Tray

Keep your fingers well clear of the disc tray as it is closing. It may cause serious personal injury.



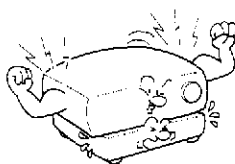
20. Laser Beam

Do not look into the opening of the disc tray or ventilation openings of the product to see the source of the laser beam. It may cause sight damage.



15. Burden

Do not place a heavy object on or step on the product. The object may fall, causing serious personal injury and serious damage to the product.



21. Disc

Do not use a cracked, deformed, or repaired disc. These discs are easily broken and may cause serious personal injury and product malfunction.



16. Connecting

When you connect the product to other equipment, turn off the power and unplug all of the equipment from the wall outlet. Failure to do so may cause an electric shock and serious personal injury. Read the owner's manual of the other equipment carefully and follow the instructions when making any connections.



22. Damage Requiring Service

Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- When the power-supply cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into the product.
- If the product has been exposed to rain or water.
- 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.
- If the product has been dropped or damaged in any way.
- If the product exhibits a distinct change in performance - this indicates a need for service.

23. 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.

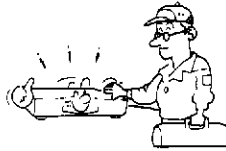


24. Replacement Parts

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.

25. 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.



Precautions

Notes on Handling

- When shipping the DVD video player, the original shipping carton and packing materials come in handy. For maximum protection, repack the unit as it was originally packed at the factory.
- Do not use volatile liquids, such as insect spray, near the DVD video player. Do not leave rubber or plastic products in contact with the DVD video player for a long time. They will leave marks on the finish.
- The top and rear panels of the DVD video player may become warm after a long period of use. This is not a malfunction.
- When the DVD video player is not in use, be sure to remove the disc and turn off the power.
- If you do not use the DVD video player for a long period, the unit may not function properly in the future. Turn on and use the DVD video player occasionally.

Notes on Locating

- When you place this DVD video player near a TV, radio, or VCR, the playback picture may become poor and the sound may be distorted. In this case, place the DVD video player away from the TV, radio, or VCR.

Notes on Cleaning

Use a soft, dry cloth for cleaning.

- For stubborn dirt, soak the cloth in a weak detergent solution, wring well and wipe. Use a dry cloth to wipe it dry. Do not use any type of solvent, such as thinner and benzine, as they may damage the surface of the DVD video player.
- If you use a chemical saturated cloth to clean the unit, follow that product's instructions.

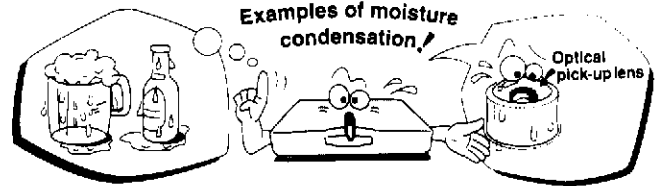
To Obtain a Clear Picture

The DVD video player is a high technology, precision device. If the optical pick-up lens and disc drive parts are dirty or worn down, the picture quality becomes poor. To obtain a clear picture, we recommend regular inspection and maintenance (cleaning or parts replacement) every 1,000 hours of use depending on the operating environment. For details, contact your nearest dealer.

Notes on Moisture Condensation

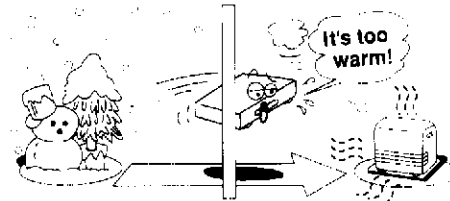
Moisture condensation damages the DVD video player. Please read the following carefully.

Moisture condensation occurs, for example, when you pour a cold drink into a glass on a warm day. Drops of water form on the outside of the glass. In the same way, moisture may condense on the optical pick-up lens inside this unit, one of the most crucial internal parts of the DVD video player.



■ **Moisture condensation occurs during the following cases.**

- When you bring the DVD video player directly from a cold place to a warm place.
- When you use the DVD video player in a room where you just turned on the heater, or a place where the cold wind from the air conditioner directly hits the unit.
- In summer, when you use the DVD video player in a hot and humid place just after you move the unit from an air conditioned room.
- When you use the DVD video player in a humid place.



■ **Do not use the DVD video player when moisture condensation may occur.**

If you use the DVD video player in such a situation, it may damage discs and internal parts. Remove the disc, connect the power cord of the DVD video player to the wall outlet, turn on the DVD video player, and leave it for two or three hours. After two or three hours, the DVD video player will have warmed up and evaporated any moisture. Keep the DVD video player connected to the wall outlet and moisture condensation will seldom occur.

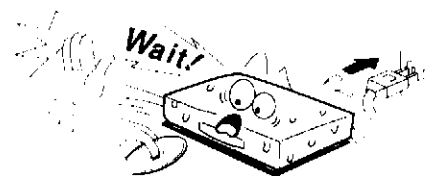


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Unpacking

The DV1000 package should include the following items:

- DV1000 Transport
- Registration Card
- Composite Video Cable
- BNC to RCA Adapter
- Owner's Manual
- Infrared Remote Control
- S-Video Cable

Save all original packaging material. After unpacking the DVD1000, check to see that the AC voltage marked on the unit (120 VAC or 240 VAC) conforms to your national standard.

Warning: Failure to confirm the appropriate voltage setting can result in damage to the unit.

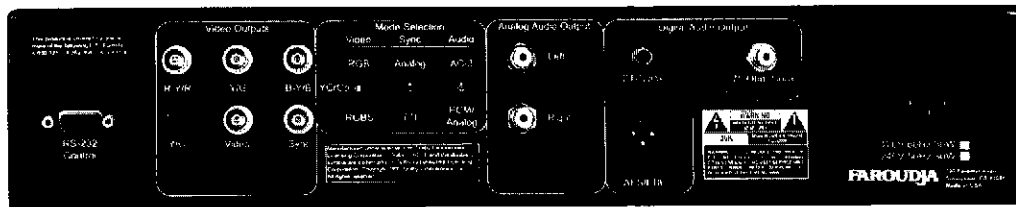
Please complete the registration card to ensure notification of future design upgrades and new products, as they become available.

If the unit needs to be shipped, be sure to remove the disc from the transport tray. Turn off unit with the front panel power switch. Wait 20 seconds before disconnecting power. This gives the disc transport time to move into a locked position.

Installation

The DV1000 can be mounted either in a rack type installation or set on a shelf. For rack mounting, first install the rack "ears" to the sides of the unit with the screws provided. Screws for attaching the DV1000 to the rack should be supplied by the rack manufacturer. The ears can support the weight of the DV1000. However, a rear support should be added if the rack is subject to movement or excessive vibration.

Video Connections



DV1000 Rear Panel

The DV1000 offers four types of video signal outputs: **component** (Y, R-Y, B-Y also called Y, Cr, Cb), **RGBS**, **S-video** and **composite**. To obtain the highest quality image, use of the component video output is recommended. The television must be capable of accepting this type of signal. RGB and RGBS will also yield superb results. For televisions or video processors that do not accept these formats S-Video and composite video outputs are offered.

1

COMPONENT CONNECTION: Switch the **Mode Selection** switch to the **Y, Cr, Cb** position. Using a high performance three wire 75ohm cable with BNC type connectors, connect each cable to the Y (for the black and white signal), R-Y (for the red signal) and the B-Y (for the blue signal). Connect the other end of the cable to the video monitor or Faroudja Line Processor. Be sure to connect the correct cable to the corresponding input connector or else the image will produce incorrect colors.

2

RGB OR RGBS: Switch the **Mode Selection Switch** to either the **RGBS** or **RGB** positions to match the system connection. RGBS (Red, Green, Blue, Sync) requires the use of four high quality 75ohm cables. RGB adds the synchronizing signals to the Green channel for use with three wire video distribution systems. The RGBS should be used for most installations.

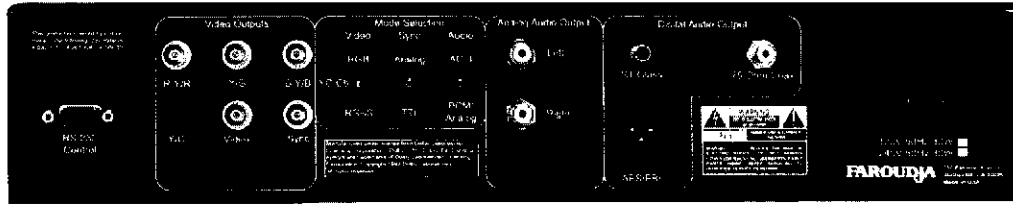
3

S-VIDEO OR COMPOSITE: The video signal on the DVD disc is recorded in the Y, Cr, Cb format. Using the S-Video or, especially, the composite signal requires additional processing in the DV1000 to recombine the Y, Cr, Cb signals resulting in some loss of signal bandwidth. The outputs are offered on the DV1000 for use with older televisions or for use with a second television.

4

ANALOG OR TTL SYNC SELECT: Some displays require the type of synchronizing signals used with computers (TTL +5 volt). In most cases the Analog (-4 volt) position should be used. This switch only affects the RGB output.

Audio Connections



DV1000 Rear Panel

The DV1000 offers audiophile performance and features for both DVD and audio CD playback. High performance Digital to Analog converters are used in the DV1000 for the analog outputs. However, to produce maximum fidelity the digital outputs should be used for connection to a high performance external processor.

ST-Glass

The ST-Glass optical outputs provide the highest quality signals available. Connect the optical cable to a high performance external processor that offers digital to analog conversion and AC-3 or DTS decoding.

AES/EBU balanced XLR

Connect a high-quality wide-bandwidth 110ohm twisted pair XLR cable to the input. Although not required, the cable may be shielded.

Coaxial

Use a high quality wide bandwidth 75ohm cable.

AC-3 — PCM/Analog Switch

The **AC-3 position** should be used if an external 5.1 channel AC-3/DTS digital surround sound decoder is used. In this case, the Analog Audio outputs (Left and Right) are disabled and all digital audio outputs carry AC-3, Linear PCM or DTS bitstreams for DVDs; linear PCM bitstreams for ordinary CDs and DTS bitstreams for DTS Digital Surround CDs.

The **PCM/Analog** position should be used if the external equipment consists of an analog stereo receiver or preamplifier (with or without Dolby Prologic decoding). In this case, the analog audio outputs carry a stereo or Dolby-Surround compatible two-channel mix-down of the 5.1 channel AC-3 digital audio signal for DVDs, and a two channel stereo analog signal for ordinary CDs. The Digital outputs carry two-channel Dolby surround compatible linear PCM bitstreams for Dolby Digital DVDs, linear PCM for ordinary CDs and DTS bit-streams for DTS Digital Surround CDs. The Analog outputs cannot be used for DTS CDs (you will hear only noise), in which case an external DTS decoder must be connected to one of the digital outputs. There is no advantage to using both a digital processor and an analog receiver/ preamplifier with the DVD player. Unless your equipment configuration changes, there should be no need to change the switch position after initial installation.

Front Panel Operation



Front Panel

The front panel of the DV1000 offers access to basic functions of operation. Advanced control features are available using the remote control.

Power

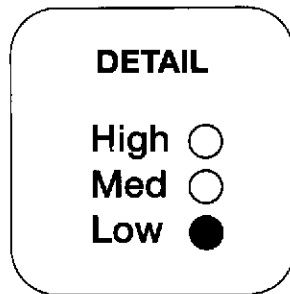
Turns unit on and off. When turned off, the disc transport moves into a secure position.

Detail

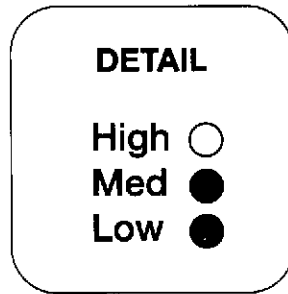
The Detail is adjusted on the DV1000 remote control using the SETUP button. When the DVD player is stopped, the SETUP button functions as usual. Once the disc is playing the SETUP button then controls the detail level. Each press of the SETUP button toggles through the different settings: Off, Low, Medium, High, Off. The LEDs on the front panel accumulate as the level is increased.



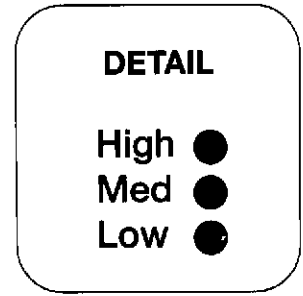
Off



Low



Med



High

1



Open/Close: Opens and closes disc tray.

2



Play: Starts reading of disc information. If the disc tray is open, pressing play will close tray and start disc transport.

3



Skip Forward: Advances to next track or chapter.

4



Skip Back: Skips back to previous track or chapter.

5



Pause: Pauses playback. Repeat pressing operates as a frame by frame advance.

6



Stop: Stops playback. If disc tray is open, it will close when pressed.

RS-232 Programming

The DV1000 offers complete remote control via computer RS-232. The following commands should be used for system control.

- Each command string must start with "DV1000"
- Each command string ends with enter <CR>
- All commands can be strung together with commas
- key can be used to correct errors.
- All RS-232 characters sent to DVD are echoed back.

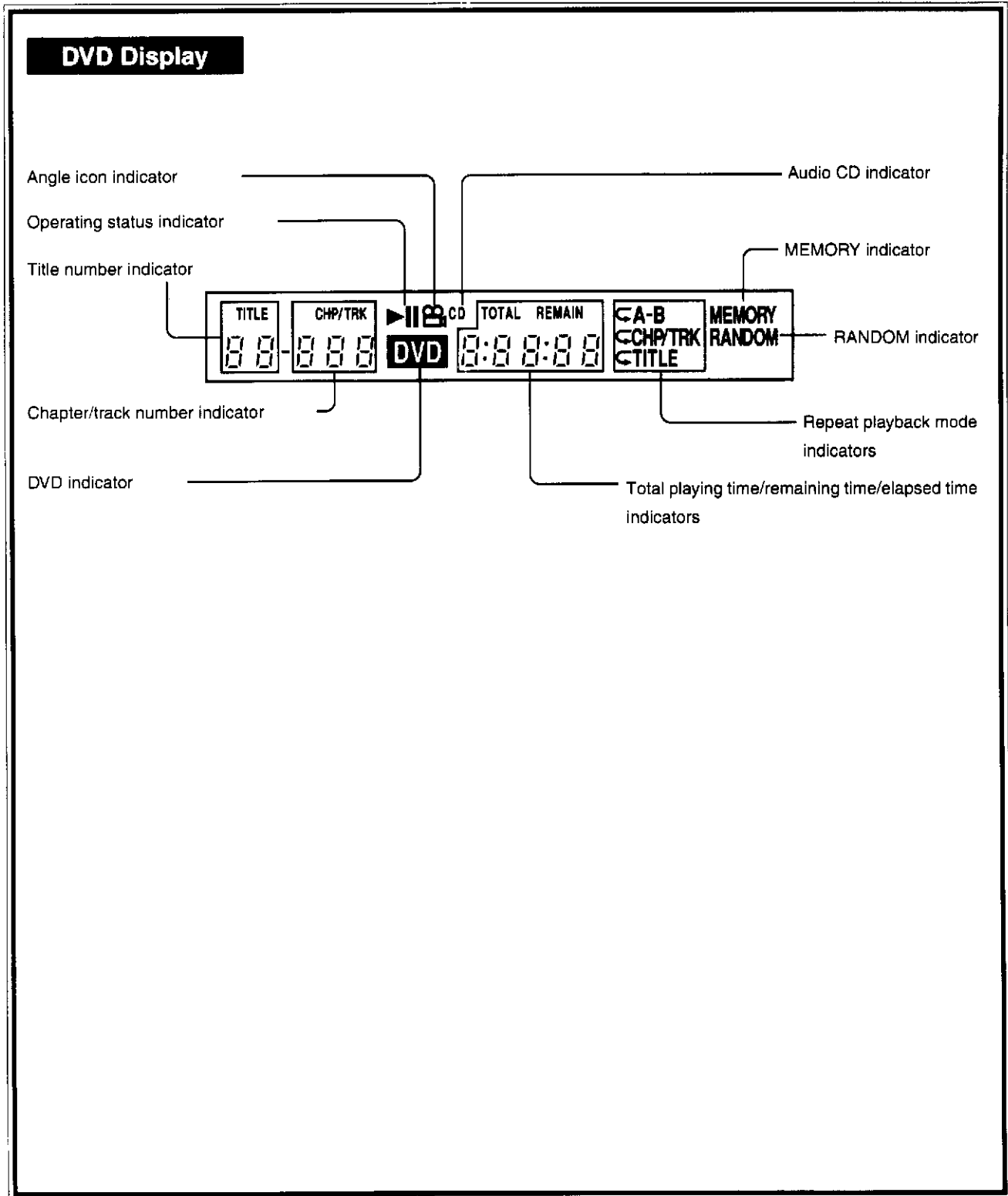
DVD Remote Key	RS232 Code	Comments
Open/Close	O	
Power	W	Toggles between
Wakeup/Standby		
Setup	s	
Subtitle on/off	x	
Display	D	
Title	t	
↑	u	
→	<	
←	>	
↓	d	
Menu	M	
Return	r	
Enter	E	
Angle	a	
Subtitle	X	
Audio	A	
Scan Rev	R	
Skip+	+	
Skip-	-	
Scan Fwd	F	
Pause/Step	p	
Play	P	
Last Play	L	
Stop	S	
Random	*	
Slow	.w	

RS-232 Programming

DVD Remote Key	RS232 Code	Comments
Memory	m	
Repeat	"	
A-B Repeat	:	
Clear	C	
1	1	
2	2	
3	3	
4	4	
5	5	
6	6	
7	7	
8	8	
9	9	
0	0	
+10	!	
T/+100	T	
	RGB or RG	RGB Output select
	RGBs or RS	RGBS Select
	YUV or YUV	YUV Select
	TTL or TT	TTL Sync
	ANLG or AN	Analog Sync
	AC3 or AC	AC3 Signal
	PCM or PC	PCM/Analog output
	off	Standby (non-toggle)
	on	Turn on from standby (non-toggle)
	LO or LOW	Enhancement Low
	MED	Enhancement Medium
	HI or HIGH	Enhancement High
	OFF	Enhancement off

Identification of Controls

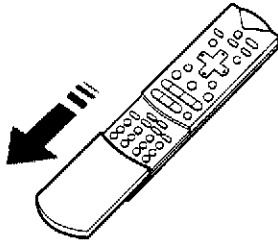
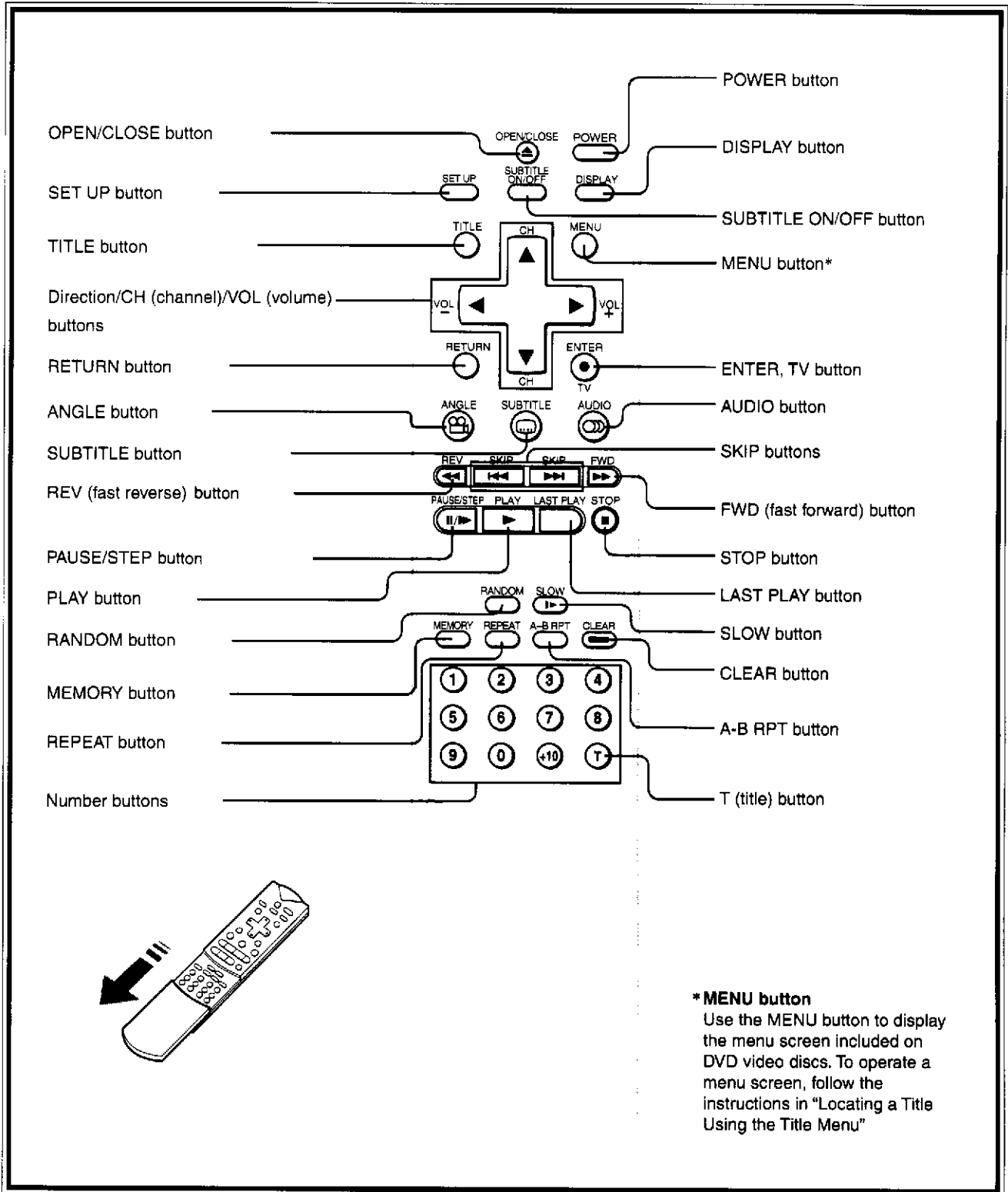
DVD Display



Identification of Controls

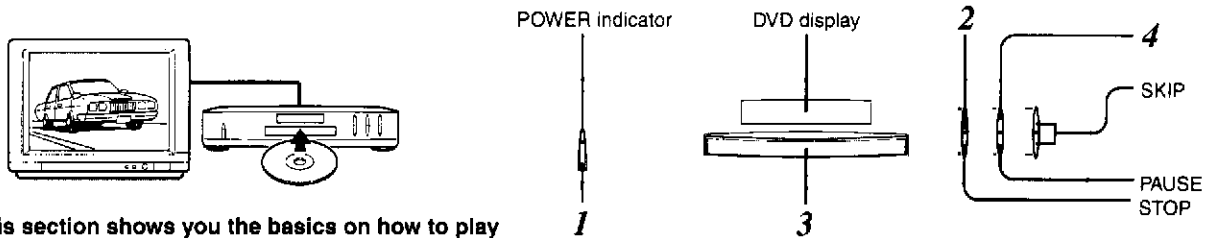
The instructions in this manual describe the controls on the remote control.

Remote Control



*** MENU button**
Use the MENU button to display the menu screen included on DVD video discs. To operate a menu screen, follow the instructions in "Locating a Title Using the Title Menu"

Playing Back a Disc



This section shows you the basics on how to play back a DVD video disc or audio CD.

Basic Playback

■ Preparations

- When you want to play back DVD video discs, turn on the TV and select the video input source connected to the DVD video player.
- When you want to enjoy the sound of DVD video discs or audio CDs from the audio system, turn on the audio system and select the input source connected to the DVD video player.
- For connection details, see pages 11 through 14.
- Set the playback picture size according to the aspect ratio of the connected TV. (See page 26.)
- If you do not have the necessary equipment to enjoy Dolby Digital (AC-3) sound, set the AUDIO SELECTOR at the rear panel to "PCM (ANALOG ON)."

1



Press POWER.

The DVD video player turns on and the POWER indicator on the player lights up.

2



Press OPEN/CLOSE.

The disc tray opens.

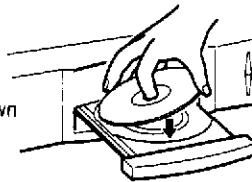
Note

You can open the disc tray by pressing this button even if the DVD video player is turned off.

3

Place the disc on the disc tray.

With the playback side down



Notes

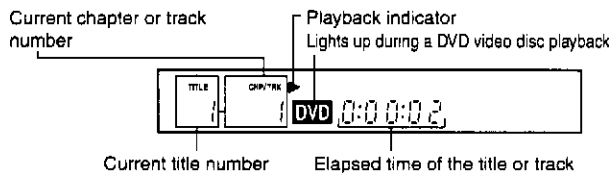
- There are two different disc sizes. Place the disc in the correct guide on the disc tray. If the disc is out of the guide, it may damage the disc and cause the DVD video player to malfunction.
- Do not place anything except DVD video discs or audio CDs on the disc tray.

4



Press PLAY.

The disc tray closes and playback starts.

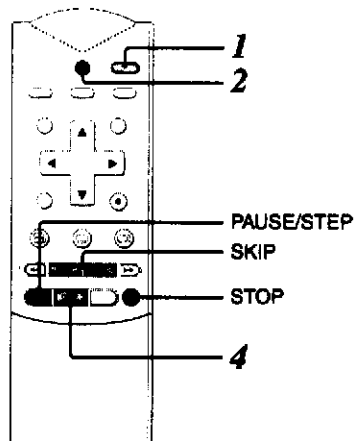


Notes

- If you insert an audio CD, the audio CD indicator lights up in the DVD display. The title number does not appear.
- After playing back all of the chapters in the title, the DVD video player automatically stops.

Notes



- Do not move the DVD video player during playback. Doing so may damage the disc.
- Use the OPEN/CLOSE button on the remote control or DVD video player to open and close the disc tray. Do not push the disc tray while it is moving. Doing so may cause the DVD video player to malfunction.
- Do not push up on the disc tray or put any objects other than discs on the disc tray. Doing so may cause the DVD video player to malfunction.
- Keep your fingers well clear of the disc tray as it is closing. Be especially careful with children's fingers around the closing disc tray as there is a risk of personal injury.



■ **To obtain a higher quality picture**

Occasionally, some picture noise not usually displayed with a normal broadcast may appear on the TV screen while playing back a DVD video disc because the high resolution pictures on these discs include a lot of information. While the amount of noise depends on the TV you use with this DVD video player, you should reduce the sharpness adjustment on your TV from the position you usually set for normal broadcasts.

■ **About  **

The   icons on the heading bar show the playable discs for the function described under that heading.

 : You can use this function with DVD video discs


 : You can use this function with audio CDs



To go to the next chapter or track

SKIP
 Press SKIP .


To stop playback

STOP
 Press STOP.
The DVD video player returns to chapter 1 or track 1.

To go to the previous chapter or track

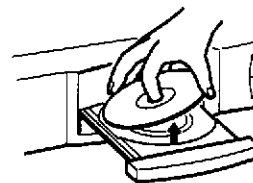
SKIP
 Press SKIP .

The DVD video player starts playback from the beginning of the current chapter or track.

When you press the SKIP  button twice, the DVD video player starts playback from the beginning of the preceding chapter or track.

To remove the disc

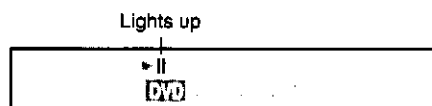
OPEN/CLOSE
 Press OPEN/CLOSE.



Remove the disc after the disc tray opens completely.

To pause playback (still playback)

PAUSE/STEP
 Press PAUSE/STEP during playback.



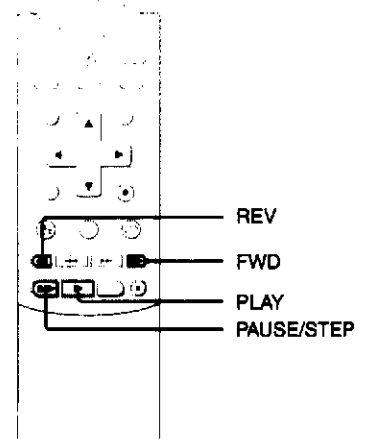
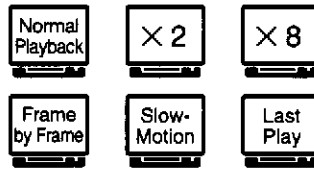
To resume normal playback, press the PLAY button.

- The sound is muted during still playback.

- Be sure to press the OPEN/CLOSE button to close the disc tray after you remove the disc.

Playing Back a Disc

(continued)



You can play back discs at various speeds, and resume playback from the location where you stopped playback.

Playing at x2 or x8 the Normal Speed

You can play back a disc at x2 or x8 the normal speed.



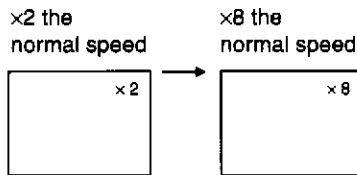
Press REV or FWD during playback.

The playback speed becomes x2 the normal speed.



Pressing the REV or FWD button again changes the playback speed to x8 the normal speed.

REV: Fast reverse playback
FWD: Fast forward playback



Playing Frame by Frame

You can advance a DVD video disc frame by frame.



Press PAUSE/STEP during still playback.

Each time you press the PAUSE/STEP button, the picture advances one frame.

To resume normal playback



Press PLAY.

To resume normal playback



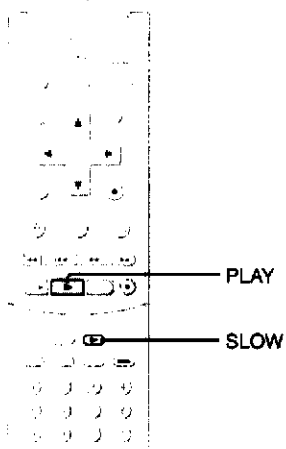
Press PLAY.

Notes

- The DVD video player does not play back sound and subtitles during x2 or x8 the normal speed reverse and forward playback of DVD video discs. However, the DVD video player plays back sound during fast forward or fast reverse playback of audio CDs.
- The x2 and x8 speeds are only approximate speeds. These speeds may vary slightly from disc to disc.

Note

The sound is muted during frame by frame playback.



DVD

Playing in Slow-Motion

You can play back a DVD video disc in slow-motion.

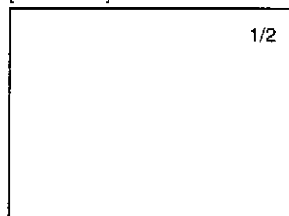
SLOW



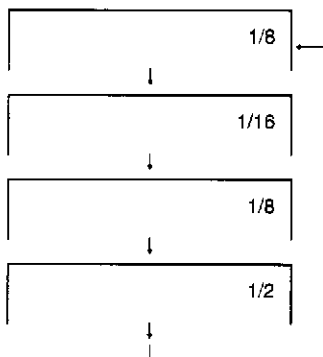
Press SLOW during playback.

The playback speed becomes half the normal speed.

[TV screen]



Each time you press the SLOW button, the playback speed changes as follows.



To resume normal playback

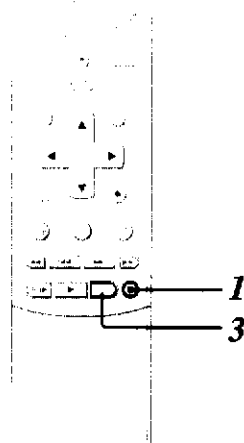
PLAY



Press PLAY.

Note

The sound is muted during slow-motion playback.



DVD CD

Resuming Playback from the Same Location

You can stop playback and resume playback later from the same location on the disc.

1

STOP



Press STOP at the location where you want to interrupt playback.

- The DVD video player memorizes the location where you stopped playback.
- The DVD video player stores that location in its memory even if you turn off the player.

2

Leave the disc in the DVD video player.

Opening the disc tray cancels this function.

3

LAST PLAY



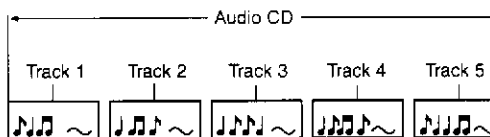
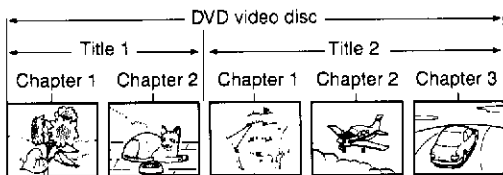
Press LAST PLAY.

The DVD video player resumes playback slightly before the location where you stopped playback.

Notes

- The Last Play function is canceled if the DVD video player is disconnected from the wall outlet, or if power is interrupted.
- Some DVD video discs start playback automatically when you insert them, and you do not have to press the PLAY button to start playback. If you use the Last Play function with these DVD video discs, turning off the DVD video player with the POWER button cancels the Last Play function.
- The Last Play function is canceled when you press the SET UP button to display the SET UP MENU on the TV screen.
- The Last Play function is canceled when you stop playback in a title that includes multiple camera angles and press the ANGLE button (page 33).
- You cannot use the Last Play function while operating the disc menu.


Locating a Specific Title, Chapter, or Track



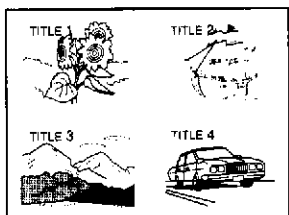
Normally, DVD video discs are divided into titles, and the titles are sub-divided into chapters. Audio CDs are divided into tracks. You can quickly locate any specific title, chapter, or track.


Locating a Title Using the Title Menu DVD


If a DVD video disc contains a title menu, you can locate a specific title using that title menu.

1 **TITLE**  **Press TITLE.**
The title menu appears on the TV screen.

Example of a title menu



2  **Press ▲ / ▼ / ◀ / ▶ to select the title you want.**
If the titles in the title menu are assigned a number, you can directly locate a specific title by pressing its assigned number with the **number buttons**.


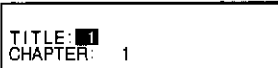
3 **ENTER**  **Press ENTER.**
The DVD video player starts playback from chapter 1 of the selected title.


Notes

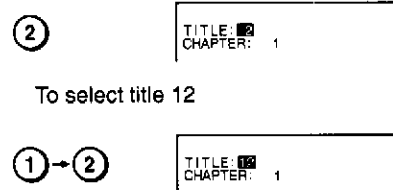
- The instructions above describe the basic procedure. The procedure varies depending on the contents of the DVD video disc. If different instructions appear on the TV screen, follow those instructions.
- If you display the title menu during playback and press the TITLE button again without selecting any title, the DVD video player resumes playback from the point where you first pressed the TITLE button.
- If a DVD video disc does not contain a title menu, the title menu does not appear on the TV screen when you press the TITLE button.


Locating a Title DVD

You can locate a specific title by directly selecting a title number.

1  **Press T to highlight the space next to TITLE.**
e.g. 

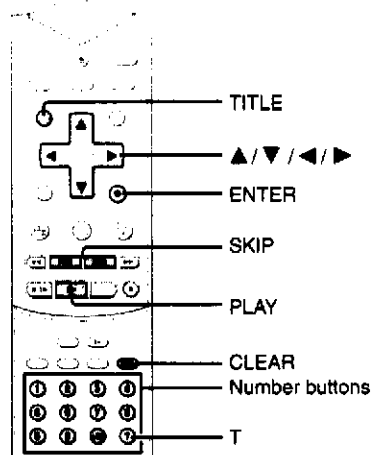
2  **Press the corresponding number buttons for the title you want.**
e.g. To select title 2



3 **PLAY**  **Press PLAY.**
The DVD video player starts playback from chapter 1 of the selected title.

Notes

- You cannot locate a specific title on DVD video discs that do not contain title numbers.
- Pressing the CLEAR button erases the numbers next to TITLE and CHAPTER.
- You can select a preferred language for on-screen displays (see page 25).



Locating a Specific Chapter or Track

You can locate consecutive chapters or tracks.



Press SKIP \lll or \ggg repeatedly to display the chapter or track number you want.



The DVD video player starts playback from the selected chapter or track.

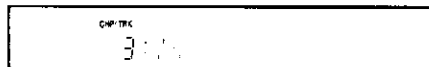
\lll : To locate preceding chapters or tracks

When you press the SKIP \lll button, the DVD video player starts playback from the beginning of the current chapter or track.

When you press the SKIP \lll button twice, the DVD video player starts playback from the beginning of the preceding chapter or track.

\ggg : To locate succeeding chapters or tracks

e.g. When you select chapter 3



Locating a Specific Chapter or Track Directly

If you know the chapter or track number you want to play back, you can locate it directly.

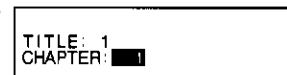
1



Press T repeatedly to highlight the space next to CHAPTER.

Skip this step if you are using an audio CD.

e.g.



2

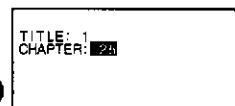


Press the corresponding number buttons of the chapter or track you want.

You can use the $\oplus 10$ button to select numbers from 10 through 99.

e.g. To select chapter or track 25

- $\textcircled{2} \rightarrow \textcircled{5}$
- $\textcircled{+10} \rightarrow \textcircled{+10} \rightarrow \textcircled{5}$



3

PLAY



Press PLAY.

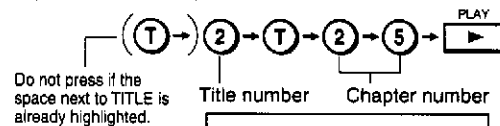
The DVD video player starts playback from the selected chapter or track.

Note

Some titles may not display the chapter number.

To select a title and chapter number at the same time

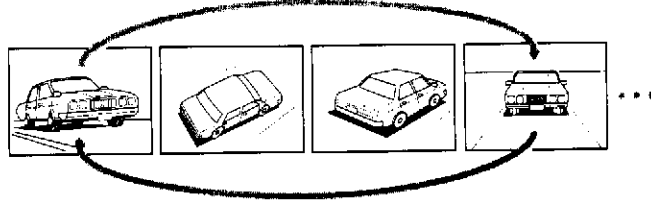
e.g. To select chapter 25 in title 2



Note

Pressing the CLEAR button erases the numbers next to TITLE and CHAPTER.

Playing Repeatedly




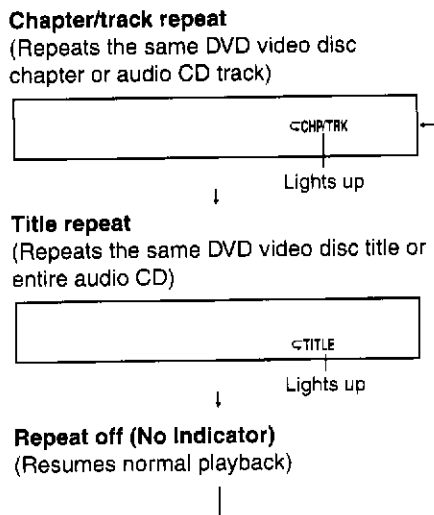
You can play back a specific title, chapter, track, or segment repeatedly. (Title repeat, chapter/track repeat, A-B repeat)

Repeating a Title, Chapter, or Track DVD, CD




You can play back the same title, chapter, or track repeatedly. (Title, chapter/track repeat)

1 Select the title, chapter, or track you want to repeat (see pages 19 and 20).

2  **Press REPEAT.**
Each time you press the REPEAT button, the repeat mode changes as follows.




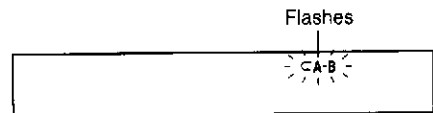
To resume normal playback

 **Press CLEAR.**
The  CHPTRK and  TITLE indicators disappear.

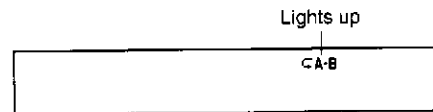
Repeating a Specific Segment DVD, CD

You can play back a specific segment repeatedly. (A-B repeat)

1  **Press A-B RPT at the beginning of the segment (point A) you want to play back repeatedly during playback.**





2  **Press A-B RPT again at the end of the segment (point B).**



The DVD video player automatically returns to point A and starts repeat playback of the selected segment (A-B).

To resume normal playback

 **Press CLEAR.**
The  A-B indicator disappears.

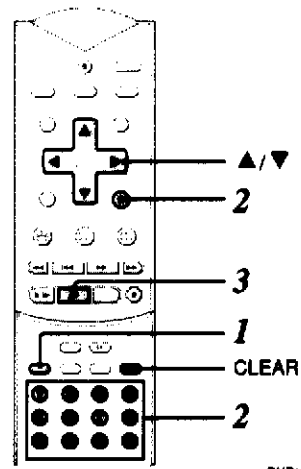
Notes

- You can specify a segment only within the current title.
- You cannot set the A-B repeat function for segment that include multiple camera angles.

Playing in a Favorite Order



You can combine your favorite titles, chapters, or tracks and play them back in any order. You can program up to 30 items into the memory. (Memory playback)



Setting Titles, Chapters, or Tracks in a Favorite Order

The DVD video player automatically plays back titles, chapters, or tracks in the order you program.

1 MEMORY

Insert a disc and press MEMORY during stop.

The following menu appears.

III MEMORY		SELECT: +
1	T--C--	8 T--C--
2	T--C--	10 T--C--
3	T--C--	11 T--C--
4	T--C--	12 T--C--
5	T--C--	13 T--C--
6	T--C--	14 T--C--
7	T--C--	15 T--C--
8	T--C--	NEXT

Flashes

III MEMORY		SELECT: +
1	T02C25	9 T--C--
2	T02C12	10 T--C--
3	T01C--	11 T--C--
4	T04C02	12 T--C--
5	T--C--	13 T--C--
6	T--C--	14 T--C--
7	T--C--	15 T--C--
8	T--C--	NEXT

T: Title number
C: Chapter number



Programmed title and chapter, or track number lights up

To select another chapter in the same title, you do not need to select the title number.

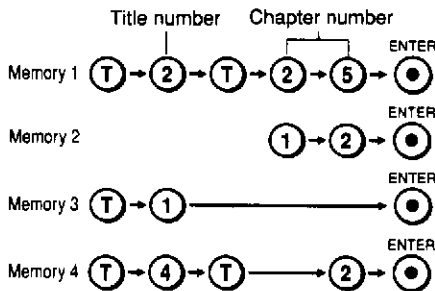
If you make a mistake, press the CLEAR button, then press the correct number buttons.

2

Select the items you want in order by pressing the number buttons, then ENTER for each item.

Each time you press the T button, the -- indication next to T and C is highlighted in turn. Highlight the -- indication next to T (to select a title) or C (to select a chapter), then press the number buttons.

e.g. To play back chapter 25 in title 2, chapter 12 in title 2, all the chapters in title 1, and chapter 2 in title 4.



To select tracks from an audio CD in order, press the number buttons for the track, then press the ENTER button for each item you want.

3 PLAY

Press PLAY while the MEMORY menu appears on the TV screen.

The DVD video player starts memory playback.

To change the programmed items

- While the MEMORY menu appears on the TV screen, press ▲/▼ to move the highlighted bar to the item you want to change.
- Change the item following the instructions in step 2.

To resume normal playback from memory playback

CLEAR Press CLEAR. The MEMORY indicator disappears.

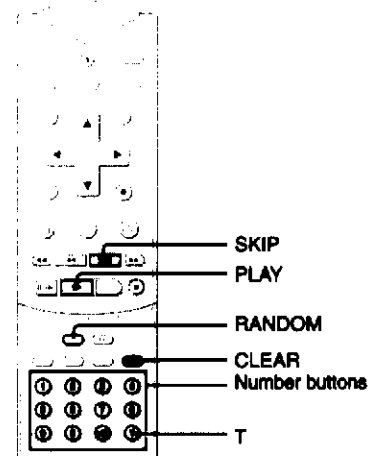
Notes

- You cannot select title, chapter, and track numbers not included on the disc.
- If you press the MEMORY or RETURN button while the MEMORY menu appears on the TV screen, the MEMORY menu disappears.
- The programmed items will be cleared when:
 - you turn off the DVD video player, or
 - you remove the disc.

Playing in Random Order




You can play back titles, chapters within a title, or tracks in random order. (Random playback)




Playing Titles in Random Order DVD

The DVD video player automatically selects the titles in a DVD video disc and plays them back randomly.


1  **Press T during stop, then press RANDOM.**

[TV screen]

TITLE RANDOM




If you press the RANDOM button during playback, the DVD video player automatically starts random playback after finishing the current title.

2  **Press PLAY.**

The DVD video player starts random playback.

Press the PLAY button within about 5 seconds after you press the RANDOM button.

To resume normal playback


 **Press CLEAR.**
The RANDOM indicator in the DVD display disappears.

Note

You cannot use the random playback function in conjunction with the memory playback function.



Playing Chapters or Tracks in Random Order DVD CD


The DVD video player automatically selects chapters within a title, or tracks on an audio CD, and plays them back randomly.

1  **Press the appropriate number buttons for the title which contains the chapters you want to play back in random order.**

Skip this step when you want to enjoy the random playback function with an audio CD.

e.g. To play back the chapters in title 2 in random order


 → 

2  **Press RANDOM during stop.**

[TV screen]

CHAPTER RANDOM


If you press the RANDOM button during playback, the DVD video player automatically starts random playback after finishing the current chapter or track.

3  **Press PLAY.**


The DVD video player starts random playback.

Press the PLAY button within about 5 seconds after you press the RANDOM button.

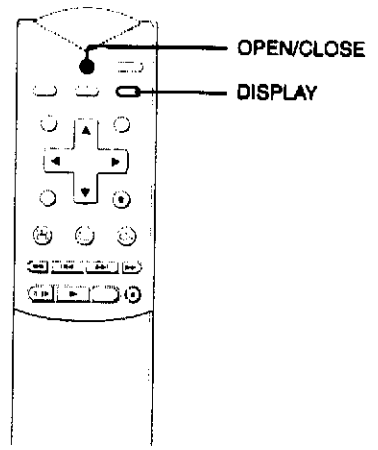
To resume normal playback

 **Press CLEAR.**
The RANDOM indicator in the DVD display disappears.

Notes

- You cannot use the random playback function in conjunction with the memory playback function.
- If you press the SKIP  button during random playback, the DVD video player goes to another chapter or track and starts playback.

Using the On-Screen Display and DVD Display



You can view information about a disc and its operational status on the TV screen and DVD display.

Checking the Operational Status

You can view the current title number, track number, and total playing time of the disc on the TV screen and DVD display.

DISPLAY

Press DISPLAY during stop.

[TV screen]
DVD video disc

e.g.

TITLE: 2	STOP	Operational status
CHAPTER: 1		

Current title number
 First chapter number in the current title

Audio CD

e.g.

TRACK: 1	STOP	Operational status
TOTAL 0:46:30		Total playing time of the disc

First track number of the disc

[DVD display]

e.g.

TITLE	CHP. TRK	DVD	0:00:00
2	1		

Current title number
 DVD indicator
 First chapter number in the current title

When an audio CD is in the DVD video player, the TOTAL Indicator and total playing time of the disc appear.

To turn off the on-screen display

DISPLAY **Press DISPLAY again.**

Total number of titles indication when inserting a DVD video disc

OPEN/CLOSE

Place a DVD video disc on the disc tray, then press OPEN/CLOSE to close the disc tray.

TITLE	4
-------	---

Total number of titles appears for about 3 seconds

Some DVD video discs start playback automatically when you insert them. In this case, the total number of titles does not appear.

When you insert an audio CD, the total number of tracks and total playing time appear for about 3 seconds.

Checking the Remaining Time and Setting Status

You can view the elapsed time, remaining time, and setting status of the disc on the TV screen and DVD display.

1 **DISPLAY**

Press DISPLAY during playback.

[TV screen]
DVD video disc

e.g.

TITLE: 3	PLAY	Remaining time in the current title
CHAPTER: 2	-0:50:45	
ELAPSED 0:10:24		Remaining time in the current chapter
CHAPTER REPEAT	0:10:15	Elapsed time of the current title

Current title number
 Current chapter number
 Operational status
 Playback mode

The REMAIN indicator and remaining time in the current title appear in the DVD display.

Audio CD

e.g.

TRACK: 3	PLAY	Remaining time in the current track
DISC	-0:02:00	
ELAPSED 0:01:20		Remaining time of the disc
TRACK REPEAT		Elapsed time of the current track

Current track number
 Operational status
 Playback mode

The REMAIN indicator and remaining time in the current track appear in the DVD display.

2 **DISPLAY** **Press DISPLAY again during playback.**

When you play back an audio CD, the on-screen display turns off.

[TV screen]
 e.g.

TITLE: 3	PLAY	Current audio setting
CHAPTER: 2	-0:50:45	
ELAPSED 0:10:15		Current subtitle setting
AUDIO 1 ENG AC-3 2CH		Current angle setting
SUBTITLE 12 ENG ON		
ANGLE 1		

The abbreviation of the language (e.g. ENG) appears instead of the language name. See page 28 for a list of languages and their abbreviations.

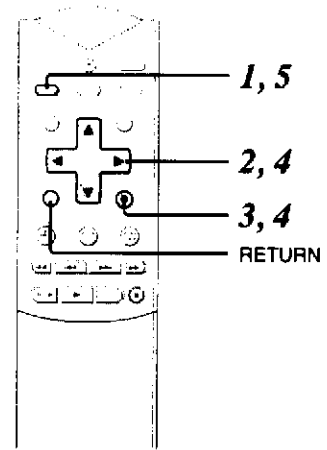
To turn off the on-screen display

DISPLAY **Press DISPLAY again.**

Selecting a Display Language



You can select a preferred language for on-screen displays and the SET UP MENU.



DVD CD

Selecting a Language for On-Screen Displays and the SET UP MENU

■ Preparations

- Turn on the TV and select the appropriate video input mode so the picture from the DVD video player appears on the TV screen.
- Turn the DVD video player on.

1 **SET UP** Press **SET UP** during stop.
The following menu appears.

III SET UP MENU		SELECT: +
SCREEN DISPLAYS	ENG	
TV SHAPE	16:9	
ANGLE ICON	OFF	
AUDIO	ENG	
SUBTITLE	ENG	
DISC MENU	ENG	
EXIT SETUP	RETURN	ENTER

2 Press **▲/▼** to select "SCREEN DISPLAYS."
Move the highlighted bar to "SCREEN DISPLAYS."

III SET UP MENU		SELECT: +
SCREEN DISPLAYS	ENG	
TV SHAPE	16:9	
ANGLE ICON	OFF	
AUDIO	ENG	
SUBTITLE	ENG	
DISC MENU	ENG	
EXIT SETUP	RETURN	ENTER

3 **ENTER** Press **ENTER**.
The following menu appears.

III SCREEN DISPLAYS		SELECT: +
ENGLISH		
FRENCH		
SPANISH		
EXIT SETUP	RETURN	ENTER

4 Press **▲/▼** to select your preferred language, then press **ENTER**.
The following menu appears.
When you select "ENGLISH."

III SET UP MENU		SELECT: +
SCREEN DISPLAYS	ENG	
TV SHAPE	16:9	
ANGLE ICON	OFF	
AUDIO	ENG	
SUBTITLE	ENG	
DISC MENU	ENG	
EXIT SETUP	RETURN	ENTER

When you select "FRENCH."

III MENU RÉGLAGE		SELECT: +
AFFICHAGE-ÉCRAN	FRE	
FORMAT TV	16:9	
ICÔNE ANGLE	OFF	
AUDIO	ENG	
SOUS-TITRES	ENG	
MENU DISQUE	ENG	
SORTIE SETUP	RETURN	ENTER

When you select "SPANISH."

III PREPARAR MENÚ		SELECT: +
DESPLEGADOS	SPA	
FORMATO DE TV	16:9	
ICONO ANGULAR	OFF	
AUDIO	ENG	
SUBTITULO	ENG	
MENÚ DEL DISCO	ENG	
SALIR SETUP	RETURN	ENTER

The abbreviation of the language appears instead of the language name. See page 28 for a list of languages and their abbreviations.

5 **SET UP** Press **SET UP**.
The SET UP MENU disappears.

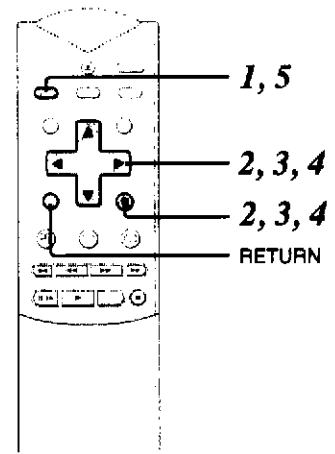
Note

If you press the RETURN button while a menu appears on the TV screen, you will return to the previous screen.

Setting the Playback Picture Size



Set the default playback picture size according to the aspect ratio of your TV.



DVD

Setting the Default Playback Picture Size

Preparations

- Turn on the TV and select the appropriate video input mode so the picture from the DVD video player appears on the TV screen.
- Turn the DVD video player on.

1 **SET UP** Press **SET UP** during stop.
The following menu appears.

```

SET UP MENU      SELECT: →
SCREEN DISPLAYS  ENG
TV SHAPE         16:9
ANGLE ICON      OFF
AUDIO           ENG
SUBTITLE        ENG
DISC MENU       ENG
EXIT (SETUP)    (RETURN) (ENTER)
    
```

4 Press **←/→** to select the display mode you want, then press **ENTER**.

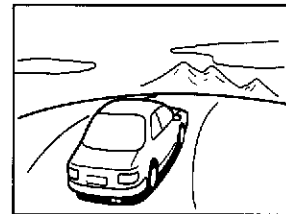
PS (PAN-SCAN):
Displays pictures cropped to fill your TV screen. Either or both sides of the picture are cut off.

2 Press **▲/▼** to select "TV SHAPE," then press **ENTER**.

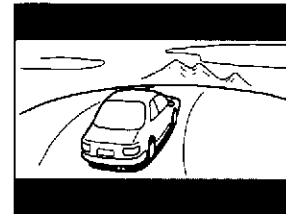
The following menu appears.

```

TV SHAPE      SELECT: →
TV SHAPE      16:9
4:3           16:9
NORMAL        WIDE
EXIT (SETUP)  (RETURN) (ENTER)
    
```



LB (LETTERBOX):
Displays theatrical images with masking bars above and below the picture.



The **SET UP MENU** appears again. "PS" or "LB" appears on the **SET UP MENU**.

3 Press **←/→** to select the aspect ratio of your TV, then press **ENTER**.

If you select "4:3 (NORMAL):"
The **DISPLAY MODE** setting menu appears. Proceed to step 4.

```

TV SHAPE      SELECT: →
PREFERENCE
DISPLAY MODE  [LB]
PS            16:9
PAN-SCAN      LETTERBOX
EXIT (SETUP)  (RETURN) (ENTER)
    
```

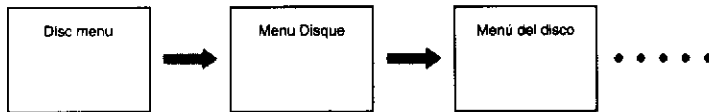
If you select "16:9 (WIDE):"
The **SET UP MENU** appears. Proceed to step 5.

5 **SET UP** Press **SET UP**.
The **SET UP MENU** disappears.

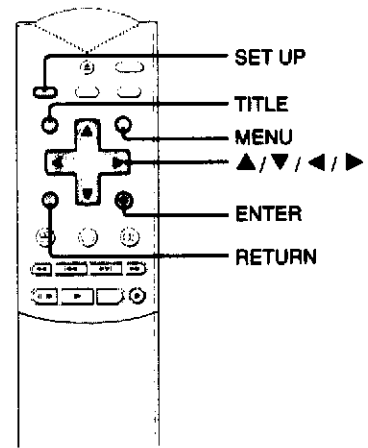
Notes

- The displayable picture size is preset on the DVD video disc. Therefore, the playback picture of some DVD video discs may not conform to the picture size you select above.
- When you playback DVD video discs recorded in the 4:3 picture size only, the playback picture always appears in the 4:3 picture size regardless of the TV shape setting.
- If you press the **RETURN** button while a menu appears on the TV screen, you will return to the previous screen.

Selecting a Disc Menu Language



You can select a preferred language for the disc menu from the languages included on the DVD video disc.



Setting the Default Disc Menu Language

When you play back a DVD video disc, the DVD video player automatically displays the disc menu in the pre-selected language if it is included on the disc.

- 1** **SET UP** Press **SET UP** during stop.
The **SET UP** MENU appears on the TV screen.
- 2** Press **▲/▼** to select "DISC MENU," then press **ENTER**.
The following menu appears.

III DISC MENU		SELECT: +
PREFERENCE		
ENGLISH	ITALIAN	
FRENCH	JAPANESE	
SPANISH	DUTCH	
CHINESE	KOREAN	
GERMAN	MALAYSIAN	
EXIT SETUP		ENTER
		RETURN

You can select the default disc menu language from the 10 languages displayed on the DISC MENU.
- 3** Press **▲/▼/◀/▶** to select the default disc menu language, then press **ENTER**.
The following menu appears.

III SET UP MENU		SELECT: +
SCREEN DISPLAYS	ENG	
TV SHAPE	16:9	
ANGLE ICON	OFF	
AUDIO	ENG	
SUBTITLE	ENG	
DISC MENU	FRE	
EXIT SETUP		ENTER
		RETURN
- 4** **SET UP** Press **SET UP**.
The **SET UP** MENU disappears.

Notes

- If you press the **RETURN** button while a menu appears on the TV screen, you will return to the previous screen.
- Some DVD video discs may not contain a disc menu.
- Some DVD video discs may not include your pre-selected disc menu language. In this event, the DVD video player automatically displays the disc menu utilizing the disc's initial language setting.

Selecting a Disc Menu Language

When a DVD video disc is inserted, you can display the disc menu and select a disc menu language from those included on the disc.

- 1** **TITLE** Press **TITLE** or **MENU** to display the disc menu.

MENU
- 2** **SET UP** Press **SET UP**.
The disc menu language included on the DVD video disc appears on the TV screen.

DISC MENU: ENG
- 3** **SET UP** Press **SET UP** again to select the disc menu language.
Each time you press the **SET UP** button, the disc menu language, from those included on the DVD video disc, changes. The abbreviation of the language appears instead of the language name. See the next page for a list of languages and their abbreviations.
- 4** **ENTER** Press **ENTER**.
The disc menu appears in the selected language.

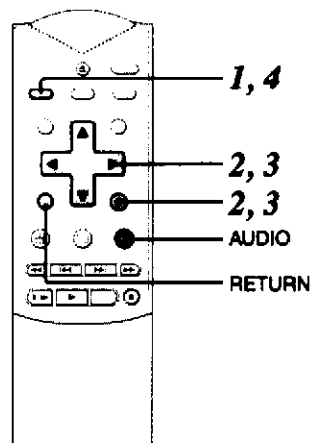
Note

If the DVD video disc contains only one disc menu language, the disc menu language does not appear on the TV screen when you press the **SET UP** button in step 2.

Table of Languages and Their Abbreviations

Abbreviation of the language	Language	Abbreviation of the Language	Language	Abbreviation of the Language	Language	Abbreviation of the Language	Language
---	No alternate language	EO	Esperanto	LN	Lingala	SL	Slovenian
CHI	Chinese	ET	Estonian	LO	Laotian	SM	Samoaan
DUT	Dutch	EU	Basque	LT	Lithuanian	SN	Shona
ENG	English	FA	Persian	LV	Latvian, Lettish	SO	Somali
FRE	French	FI	Finnish	MG	Malagasy	SQ	Albanian
GER	German	FJ	Fiji	MI	Maori	SR	Serbian
ITA	Italian	FO	Faroese	MK	Macedonian	SS	Siswati
JPN	Japanese	FY	Frisian	ML	Malayalam	ST	Sesotho
KOR	Korean	GA	Irish	MN	Mongolian	SU	Sundanese
MAY	Malay	GD	Scottish Gaelic	MO	Moldavian	SV	Swedish
SPA	Spanish	GL	Galician	MR	Marathi	SW	Swahili
AA	Afar	GN	Guarani	MT	Maltese	TA	Tamil
AB	Abkhazian	GU	Gujarati	MY	Burmese	TE	Telugu
AF	Afrikaans	HA	Hausa	NA	Nauru	TG	Tajik
AM	Amharic	HI	Hindi	NE	Nepali	TH	Thai
AR	Arabic	HR	Croatian	NO	Norwegian	TI	Tigrinya
AS	Assamese	HU	Hungarian	OC	Occitan	TK	Turkmen
AY	Aymara	HY	Armenian	OM	(Afan) Oromo	TL	Tagalog
AZ	Azerbaijani	IA	Interlingua	OR	Oriya	TN	Setswana
BA	Bashkir	IE	Interlingue	PA	Panjabi	TO	Tongan
BE	Belorussian	IK	Inupiak	PL	Polish	TR	Turkish
BG	Bulgarian	IN	Indonesian	PS	Pashto, Pushto	TS	Tsonga
BH	Bihari	IS	Icelandic	PT	Portuguese	TT	Tatar
BI	Bislama	IW	Hebrew	QU	Quechua	TW	Twi
BN	Bengali, Bangla	JI	Yiddish	RM	Rhaeto-Romance	UK	Ukrainian
BO	Tibetan	JW	Javanese	RN	Kirundi	UR	Urdu
BR	Breton	KA	Georgian	RO	Rumanian	UZ	Uzbek
CA	Catalan	KK	Kazakh	RU	Russian	VI	Vietnamese
CO	Corsican	KL	Greenlandic	RW	Kinyarwanda	VO	Volapük
CS	Czech	KM	Cambodian	SA	Sanskrit	WO	Wolof
CY	Welsh	KN	Kannada	SD	Sindhi	XH	Xhosa
DA	Danish	KS	Kashmiri	SG	Sango	YO	Yoruba
DZ	Bhutani	KU	Kurdish	SH	Serbo-Croatian	ZU	Zulu
EL	Greek	KY	Kirghiz	SI	Singhalese		
		LA	Latin	SK	Slovak		

Selecting a Language



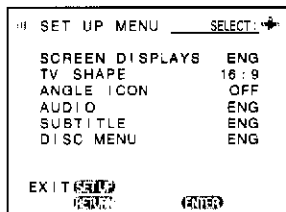
You can select a preferred language. DVD video discs may contain up to eight different languages.

DVD

Setting the Default Language

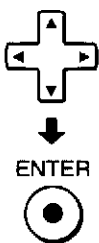
When you play back a DVD video disc, the DVD video player automatically plays back the pre-selected language if it is included on the disc.

1 **SET UP** Press **SET UP** during stop.
The following menu appears.

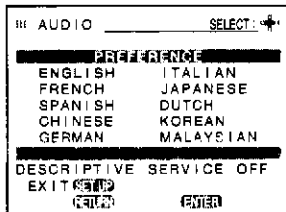


4 **SET UP** Press **SET UP**.
The SET UP MENU disappears.

2 Press **▲/▼** to select "AUDIO," then press **ENTER**.



The following menu appears.

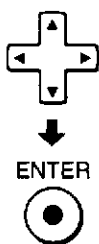


To play back special output sound for visually impaired persons

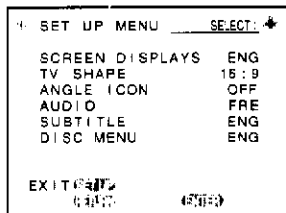
AUDIO In step 3, press **AUDIO** before you press **ENTER** and set **DESCRIPTIVE SERVICE** in the **AUDIO** menu to "ON."



3 Press **▲/▼/◀/▶** to select the default language, then press **ENTER**.



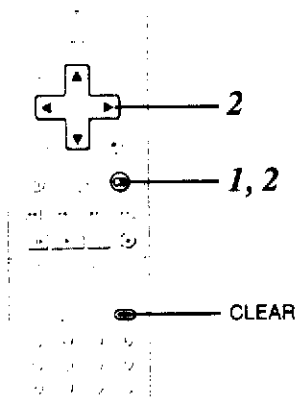
The following menu appears.



Some DVD video discs contain special output sound that describes the actions on-screen. When you set **DESCRIPTIVE SERVICE** to "ON," the DVD video player automatically plays back this special output sound.

Notes


- If you press the **RETURN** button while a menu appears on the TV screen, you will return to the previous screen.
- You can select the following as the default language: English, French, Spanish, Chinese, German, Italian, Japanese, Dutch, Korean, and Malaysian.
- Some DVD video discs may not include your pre-selected language. In this case, the DVD video player automatically plays back the disc's initial language setting.



Selecting a Playback Audio Setting

You can easily select a playback audio setting (language, recording system, and audio channel) from those included on the DVD video disc during playback.

1 **AUDIO** **Press AUDIO during playback.**



AUDIO 1	ENG	PCM	2CH
			Audio channel
			Recording system
			Language
			Position number

Current audio setting appears for about 3 seconds



The abbreviation of the language appears instead of the language name. See page 28 for a list of languages and their abbreviations.

To turn off the audio setting indication

CLEAR **Press CLEAR.**



2 **AUDIO** **Press AUDIO or ▲ while the audio setting appears on the TV screen.**

Each time you press the AUDIO or ▲ button, the audio settings included on the DVD video disc change.

e.g.

AUDIO 1	ENG	PCM	2CH
↓			
AUDIO 2	FRE	AC-3	6CH
↓			
AUDIO 3	SPA	PCM	2CH
↓			

▼ : Cycles backwards

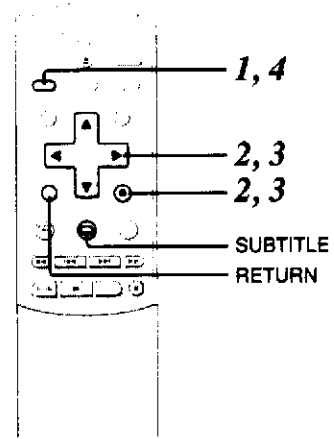
Notes

- You can change the language only on DVD video discs containing more than one language.
- The included languages differ depending on the DVD video discs.

Displaying Subtitles



You can display subtitles on the TV screen and select a preferred subtitle language. DVD video discs may include up to 32 different subtitle languages.

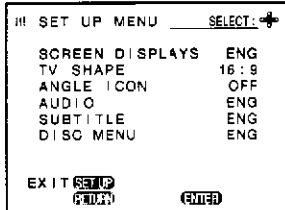


DVD

Setting the Default Subtitle Language

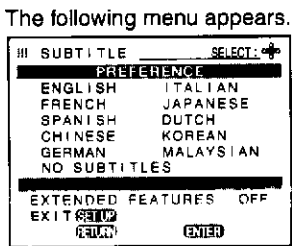
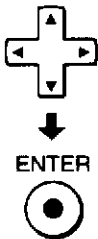
When you play back a DVD video disc, the DVD video player automatically displays the pre-selected subtitle language if it is included on the disc.

1 **SET UP** Press **SET UP** during stop.
The following menu appears.



4 **SET UP** Press **SET UP**.
The SET UP MENU disappears.

2 Press **▲/▼** to select "SUBTITLE," then press **ENTER**.



To display special subtitles for hearing impaired persons

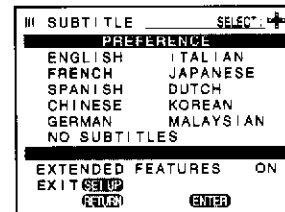
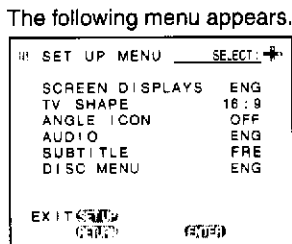
SUBTITLE In step 3, press **SUBTITLE** before you press **ENTER** and set **EXTENDED FEATURES** in the **SUBTITLE** menu to "ON."



3 Press **▲/▼/◀/▶** to select the default subtitle language, then press **ENTER**.



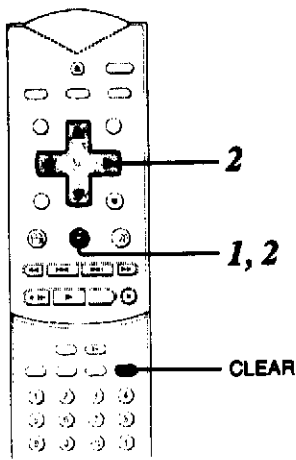
If you do not want to display subtitles, select "NO SUBTITLES."



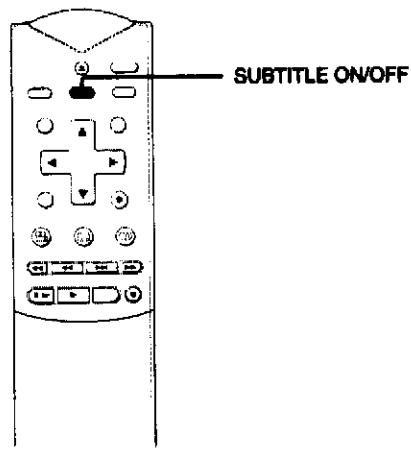
Some DVD video discs contain special subtitles, an enhancement of closed captioning. When you set **EXTENDED FEATURES** to "ON," the DVD video player automatically displays these special subtitles.

Notes

- If you press the **RETURN** button while a menu appears on the TV screen, you will return to the previous screen.
- You can select the following as the default language: English, French, Spanish, Chinese, German, Italian, Japanese, Dutch, Korean, and Malaysian.
- Some DVD video discs may not include your pre-selected language. In this case, the DVD video player automatically displays subtitles consistent with the disc's initial language setting.



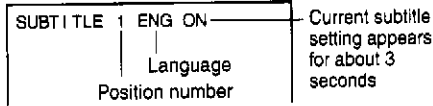
31



Selecting a Subtitle Language

You can easily select the subtitle language from those included on the DVD video disc during playback.

1 SUBTITLE Press SUBTITLE during playback.



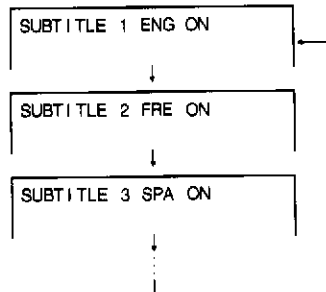
The abbreviation of the language appears instead of the language name. See page 28 for a list of languages and their abbreviations.

2 SUBTITLE Press SUBTITLE or ▲ while the subtitle setting appears on the TV screen.



Each time you press the SUBTITLE or ▲ button, the subtitle languages included on the DVD video disc change.

e.g.



▼ : Cycles backwards

To turn off the subtitle setting indication



Press CLEAR.

Notes

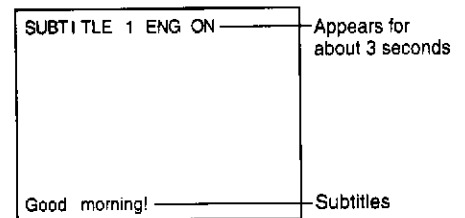
- You can change the subtitle language only on DVD video discs containing more than one subtitle language.
- The included subtitle languages differ depending on the DVD video disc.
- During some scenes, the subtitles may not appear immediately after you change the subtitle language by pressing the ▲/▼ buttons.
- Even if you select "NO SUBTITLES" as the default setting, you can turn on the subtitles and select a language by pressing the SUBTITLE button.

Displaying Subtitles

You can display subtitles on the TV screen.



Press SUBTITLE ON/OFF.

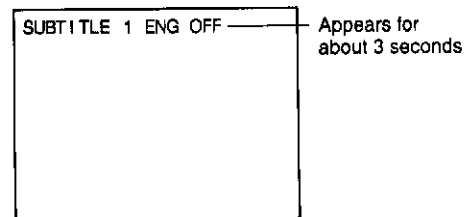


To turn off the subtitles



Press SUBTITLE ON/OFF.

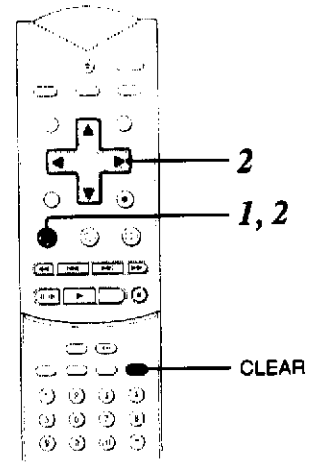
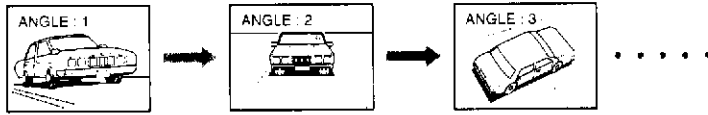
The subtitles disappear.



Notes

- You can display subtitles only if the DVD video disc includes subtitles.
- Some DVD video discs are set to display subtitles automatically, and you cannot turn them off even if you set the subtitle function to off.
- During some scenes, the subtitles may not appear immediately after you press the SUBTITLE ON/OFF button.
- Even if you select "NO SUBTITLES" as the default setting, you can turn the subtitles on or off by pressing the SUBTITLE ON/OFF button after you change the subtitle language by pressing the SUBTITLE button.

Selecting the Camera Angle



You can watch scenes from up to 9 different camera angles (multiple angle).

DVD

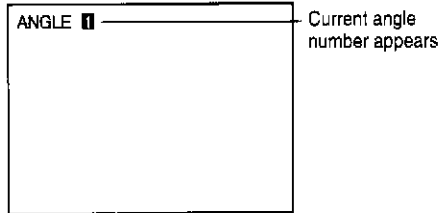
Changing the Camera Angle

If the scene was recorded from multiple angles, you can easily change the camera angle of the scene you are watching.



Press ANGLE while playing back a scene recorded from multiple angles.

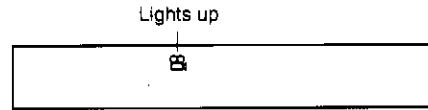
Press the ANGLE button while the angle icon in the DVD display is flashing.



To check if the scene is recorded from multiple angles or not

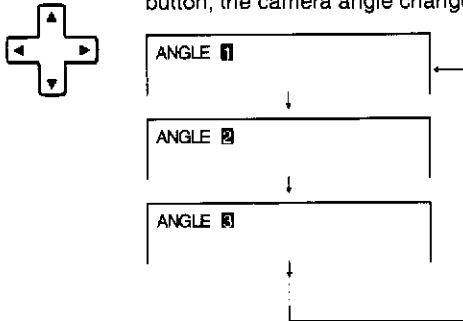
On some DVD video discs, only some scenes of the title may be recorded from multiple angles. You can check which scenes are recorded from multiple angles by the status of the angle icon in the DVD display.

When playing back a title that contains at least one scene recorded from multiple angles



Press ANGLE or ▲ while the angle number appears on the TV screen.

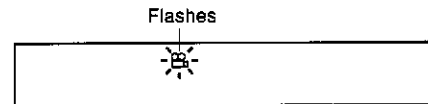
Each time you press the ANGLE or ▲ button, the camera angle changes.



▼ : Cycles backwards

You can change the camera angle directly by pressing the number buttons corresponding to its angle number instead of using the ▲/▼ buttons.

When playing back a scene recorded from multiple angles

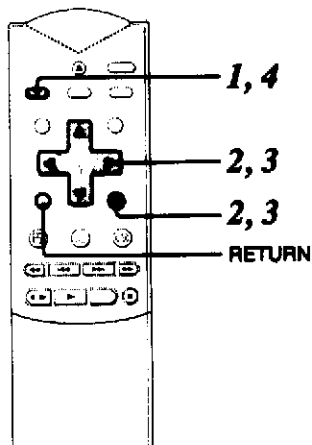


To turn off the angle number indication

Press CLEAR.

Notes

- You can change the camera angle only on scenes recorded from multiple angles.
- You can change the camera angle during still playback. The camera angle changes to the new setting when you resume normal playback.
- If the current title has scenes recorded from multiple angles, you can change the camera angle during stop.



Displaying the Angle Icon on the TV Screen

You can display the angle icon on the TV screen to determine if a scene is recorded from multiple angles.

1 **SET UP** Press **SET UP** during stop.
The following menu appears.

SET UP MENU	SELECT: +
SCREEN DISPLAYS	ENG
TV SHAPE	16:9
ANGLE ICON	OFF
AUDIO	ENG
SUBTITLE	ENG
DISC MENU	ENG
EXIT	

4 **SET UP** Press **SET UP**.
The SET UP MENU disappears.
The angle icon automatically appears on the TV screen while playing back a scene recorded from multiple angles.

Appears in white

2 Press **▲/▼** to select "ANGLE ICON," then press **ENTER**.
The following menu appears.

III ANGLE ICON	SELECT: +
ANGLE ICON	OFF
ON	OFF
EXIT	

The angle icon turns red while displaying the angle setting on the TV screen.

3 Press **◀/▶** to select "ON," then press **ENTER**.
The following menu appears.

III SET UP MENU	SELECT: +
SCREEN DISPLAYS	ENG
TV SHAPE	16:9
ANGLE ICON	ON
AUDIO	ENG
SUBTITLE	ENG
DISC MENU	ENG
EXIT	

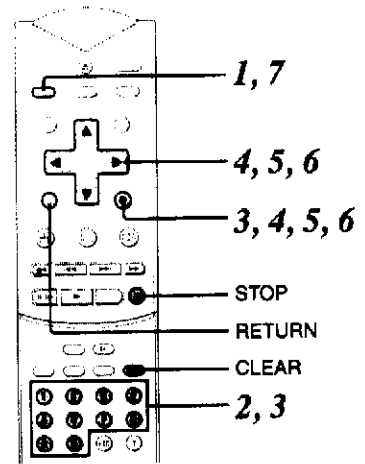
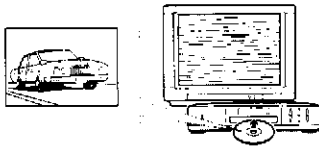
To turn off the angle icon
In step 3, press **◀/▶** to select "OFF," then press **ENTER**.

III ANGLE ICON	SELECT: +
ANGLE ICON	OFF
ON	OFF
EXIT	

Note

If you press the RETURN button while a menu appears on the TV screen, you will return to the previous screen.

Setting the Parental Lock



You can use the parental lock function only with DVD video discs equipped with the parental lock function.

Setting the Parental Lock

DVD video discs equipped with the parental lock function are rated according to their content. The contents allowed by a parental lock level and the way a DVD video disc can be controlled are different from disc to disc. For example, you can cut out violent scenes unsuitable for children and replace them with more suitable scenes, or lock out playback of the disc altogether.

1 **SET UP** Press **SET UP** during stop.
The SET UP MENU appears on the TV screen.

2 Press **9** twice.
The following menu appears.

3 Press the number buttons to create a 4-digit security code, then press **ENTER**.

e.g. **ENTER**

If you make a mistake before pressing the **ENTER** button, press the **CLEAR** button and enter your 4-digit security code again.

4 Press **◀/▶** to select "ON," then press **ENTER**.

The following menu appears.

5 Press **◀/▶** to select the country whose standards were used to rate the DVD video disc, then press **ENTER**.

The following menu appears.

6 Press **▲/▼** to select the parental lock level, then press **ENTER**.

You cannot play back DVD video discs rated higher than the level you selected unless you cancel the parental lock function. For example, when you select level 7, the discs rated higher than level 7 are locked out and cannot be played back.

e.g. When you select USA

When you select "CAN," "CAN7" appears instead.

The parental lock level is equivalent to the following USA movie ratings.

- LEVEL 7: NC-17 LEVEL 3: PG
- LEVEL 6: R LEVEL 1: G
- LEVEL 4: PG 13

The parental lock levels for "CAN" (Canada) are included for future use. Check the appropriate parental lock level when you buy a DVD video disc equipped with the parental lock function in the future.

7 **SET UP** Press **SET UP**.
The SET UP MENU disappears.

To change the parental lock level

You can change the parental lock level by following the steps in "Setting the Parental Lock."

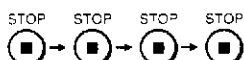
In step 3, press the **number buttons** to enter your 4-digit security code, then continue to step 4.

If you make a mistake, press the **CLEAR** button and enter the correct 4-digit security code.

To change your 4-digit security code

You can change your 4-digit security code.

- 1 Follow steps 1 and 2 in "Setting the Parental Lock."
- 2 Press the **STOP** button four times while the security code menu appears on the TV screen.



The 4-digit security code is cleared.

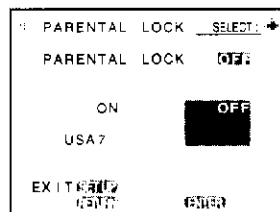
- 3 Press the **number buttons** to create a new 4-digit security code, then press the **ENTER** button.
- 4 Complete steps 4 to 7 in "Setting the Parental Lock."

To cancel the parental lock function

- 1 Follow steps 1 and 2 in "Setting the Parental Lock."
- 2 Press the **number buttons** to enter your 4-digit security code, then press the **ENTER** button.

If you make a mistake, press the **CLEAR** button and enter the correct 4-digit security code.

- 3 Press **◀/▶** to select "OFF," then press the **ENTER** button.



The SET UP MENU appears again.

- 4 Press the **SET UP** button.

The SET UP MENU disappears, and the parental lock function is cancelled.

Notes

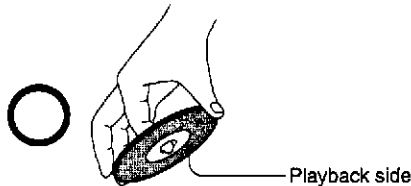
- DVD video discs may or may not respond to the parental lock settings. Make sure this function works with your DVD video discs.
- If you press the RETURN button while a menu appears on the TV screen, you will return to the previous screen.

Notes on Discs

This section shows you how to handle, clean, and store discs.

On Handling Discs

- Do not touch the playback side of the disc.

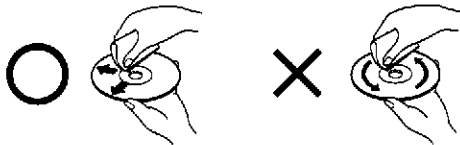


- Do not attach paper or tape to discs.



On Cleaning Discs

- Fingerprints and dust on the disc cause picture and sound deterioration. Wipe the disc from the center outwards with a soft cloth. Always keep the disc clean.



- If you cannot wipe off the dust with a soft cloth, wipe the disc lightly with a slightly moistened soft cloth and finish with a dry cloth.
- Do not use any type of solvent such as thinner, benzene, commercially available cleaners or antistatic spray for vinyl LPs. It may damage the disc.


On Storing Discs

- Do not store discs in a place subject to direct sunlight or near heat sources.
- Do not store discs in places subject to moisture and dust such as a bathroom or near a humidifier.
- Store discs vertically in a case. Stacking or placing objects on discs outside of their case may cause warping.

About This Owner's Manual



This owner's manual explains the basic instructions of this DVD video player.

Some DVD video discs have functions that may not be explained in this owner's manual. Therefore, some instructions may differ from this owner's manual, and there may be extra instructions. In this case, follow the instructions displayed on the TV screen or package.

" " may appear on the TV screen during operation. This icon means the function explained in this owner's manual is not available on the DVD video disc.

Playable Discs

This DVD video player can play back the following discs.

	Disc mark	Contents	Disc size	Maximum playback time
DVD video discs		Audio + Video (moving pictures)	12 cm	Approx. 4 hours (single sided disc) Approx. 8 hours (double sided disc)
			8 cm	Approx. 80 minutes (single sided disc) Approx. 160 minutes (double sided disc)
Audio CDs		Audio	12 cm	74 minutes
			8 cm (CD single)	20 minutes

You cannot play back discs other than those listed above.

This DVD video player uses the NTSC color system, and cannot play back DVD video discs recorded in any other color system (PAL, SECAM, etc.).

Notes on Unauthorized Discs

You may not be able to play back some DVD video discs on this player if they were purchased from outside your geographic area or made for business purposes. When you try to play back an unauthorized disc, "DISC PLAYBACK UNAUTHORIZED CONSULT OWNERS MANUAL FOR FURTHER INFORMATION" appears on the TV screen.

Notes on Copyright

It is forbidden by law to copy, broadcast, show, broadcast on cable, play in public, and rent copyrighted material without permission.

DVD video discs are copy protected, and any recordings made from these discs will be distorted.

This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. 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.

Before Calling Service Personnel

Check the following guide for the possible cause of a problem before contacting service.

Symptoms and Correction

Symptom	Cause	Correction
No power.	The power plug is disconnected.	Connect the power plug into the wall outlet securely.
The power is on, but the DVD video player does not work.	No disc is inserted.	Insert a disc. (Check that the DVD or audio CD indicator in the DVD display is lit.)
No picture.	• The TV is not set to receive DVD signal output.	• Select the appropriate video input mode on the TV so the picture from the DVD video player appears on the TV screen.
	• The video cable is not connected securely.	• Connect the video cable into the jacks securely.
No sound.	• The equipment connected with the audio cable is not set to receive DVD signal output.	• Select the correct input mode of the audio receiver so you can listen to the sound from the DVD video player.
	• The audio cables are not connected securely.	• Connect the audio cable into the jacks securely.
	• The power of the equipment connected with the audio cable is turned off.	• Turn on the equipment connected with the audio cable.
	• The AUDIO SELECTOR is set to the wrong position.	• Set the AUDIO SELECTOR to the correct position, then turn on the DVD video player again by pressing the POWER button.
The playback picture has occasional distortion.	• The disc is dirty.	• Eject the disc and clean it.
	—	• Sometimes a small amount of picture distortion may appear. This is not malfunction.
The DVD video player does not start playback.	• No disc is inserted.	• Insert a disc. (Check that the DVD or audio CD indicator in the DVD display is lit.)
	• An unplayable disc is inserted.	• Insert a playable disc. (Check the disc type and color system.)
	• The disc is placed upside down.	• Place the disc with the playback side down.
	• The disc is not placed within the guide.	• Place the disc on the disc tray correctly inside the guide.
	• The disc is dirty.	• Clean the disc.
	• A menu is on the TV screen.	• Press the SET UP button to turn off the menu screen.
	• The parental lock function is set.	• Cancel the parental lock function or change the parental lock level.
Buttons do not work.	Power supply fluctuations or other abnormalities may interrupt correct operations.	Turn the power on or off with the POWER button. Or disconnect the power plug and insert it into the wall outlet again.
The remote control does not work properly.	• The remote control is not pointed at the remote sensor of the DVD video player.	• Point the remote control at the remote sensor of the DVD video player.
	• The remote control is too far from the DVD video player.	• Operate the remote control within about 7 m.
	• The batteries in the remote control are exhausted.	• Replace the batteries with new ones.

WARRANTY INFORMATION

All FAROUDJA Laboratories products are warranted to the original purchase against defective materials and workmanship under normal use and service for a period of one (1) year from the date of shipment. This warranty shall be of no force and effects if modifications have been made by the purchaser or its agents or employees or if damage results from connecting the product to incompatible equipment or power. This warranty will also be void if the product is not returned to FAROUDJA Laboratories in the original shipping container.

The purchaser's sole remedy with respect to the breach of this warranty is for the selling distributor to repair or replace, at its option, those products which the selling distributor determines to have breached this warranty within the specified period.

Any claims under this warranty should be made by telephone or in writing to the selling distributor or FAROUDJA Laboratories. No products should be returned to the selling distributor or to FAROUDJA Laboratories without its prior consent, and then, only with freight prepaid. FAROUDJA Laboratories will prepay the return shipment.

Specifications and price change privileges are reserved.

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750 Palomar Avenue • Sunnyvale, CA 94086
Tel: 408.735.1492 • Fax: 408.735.8571 • Email: sales@faroudja.com

