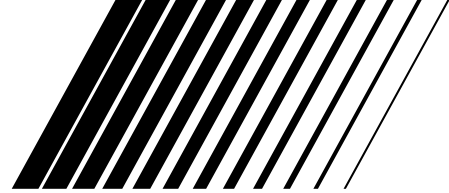


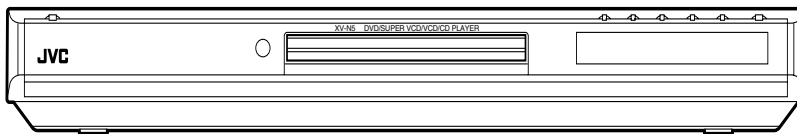
# JVC



## DVD PLAYER

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# XV-N5SL



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## INSTRUCTIONS



# Warnings, Cautions and Others

## IMPORTANT for the U.K.

**DO NOT** cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or consult your dealer.

BE SURE to replace the fuse only with an identical approved type, as originally fitted.

If nonetheless the mains plug is cut off ensure to remove the fuse and dispose of the plug immediately, to avoid a possible shock hazard by inadvertent connection to the mains supply. If this product is not supplied fitted with a mains plug then follow the instructions given below:

## IMPORTANT.

**DO NOT** make any connection to the terminal which is marked with the letter E or by the safety earth symbol or coloured green or green-and-yellow.

The wires in the mains lead on this product are coloured in accordance with the following code:

Blue : Neutral  
Brown : Live

As these colours may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

**IF IN DOUBT - CONSULT A COMPETENT ELECTRICIAN.**

## CAUTION

To reduce the risk of electrical shocks, fire, etc.:

1. Do not remove screws, covers or cabinet.
2. Do not expose this appliance to rain or moisture.

## Caution — ⚡ switch!

Disconnect the mains plug to shut the power off completely. The ⚡ switch in any position does not disconnect the mains line. The power can be remote controlled.

## CAUTION

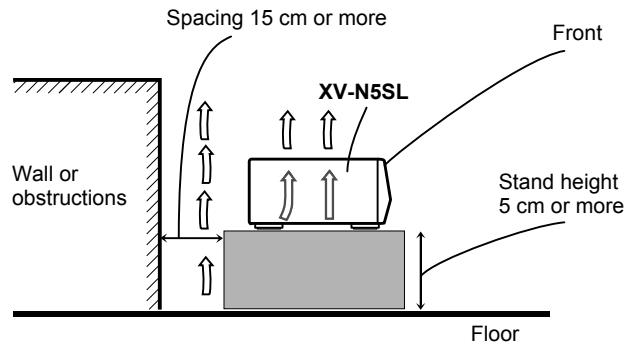
- Do not block the ventilation openings or holes. (If the ventilation openings or holes are blocked by a newspaper or cloth, etc., the heat may not be able to get out).
- Do not place any naked flame sources, such as lighted candles, on the apparatus.
- When discarding batteries, environmental problems must be considered and local rules or laws governing the disposal of these batteries must be followed strictly.
- Do not expose this apparatus to rain, moisture, dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

## Caution: Proper Ventilation

To avoid risk of electric shock and fire and to protect from damage.

Locate the apparatus as follows:

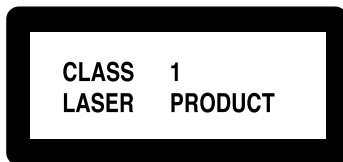
- Front: No obstructions and open spacing.  
Sides: No obstructions in 3 cm from the sides.  
Top: No obstructions in 5 cm from the top.  
Back: No obstructions in 15 cm from the back  
Bottom: No obstructions, place on the level surface.



## IMPORTANT FOR LASER PRODUCTS

### REPRODUCTION OF LABELS

① CLASSIFICATION LABEL, PLACED ON REAR ENCLOSURE



② WARNING LABEL, PLACED INSIDE THE UNIT

**CAUTION:** Invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM. (e)

**VARNING:** Osynlig laserstrålning när denna del är öppnad och spärren är urkopplad. Betrakta ej strålen. (s)

**ADVARSEL:** Usynlig laserstrålning ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling (d)

**VARO:** Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen. (f)

1. CLASS 1 LASER PRODUCT
2. **CAUTION:** Visible and invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. **CAUTION:** Do not open the top cover. There are no user serviceable parts inside the Unit; leave all servicing to qualified service personnel.

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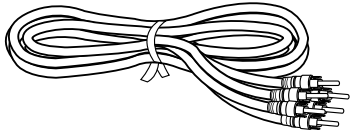
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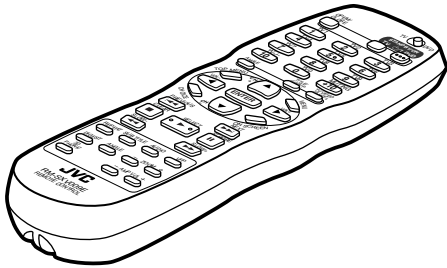
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## Supplied accessories

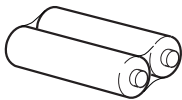
- Audio/video cable (Yellow/White/Red) (× 1)



- Remote Control Unit (× 1)



- R6P(SUM-3)/AA(15F) battery (× 2)



# Notes on handling

## Important cautions

### Installation of the unit

- Select a place which is level, dry and neither too hot nor too cold (between 5°C and 35°C, 41°F and 95°F).
- Leave sufficient distance between the unit and the TV.
- Do not use the unit in a place subject to vibrations.

### Power cord

- Do not handle the power cord with wet hands!
- A small amount of power (2 W) is always consumed while the power cord is connected to the wall outlet.
- When unplugging the unit from the wall outlet, always pull the plug, not the power cord.

### To prevent malfunction of the unit

- There are no user-serviceable parts inside. If anything goes wrong, unplug the power cord and consult your dealer.
- Do not insert any metallic object into the unit.
- Do not use any non-standard shape disc available on the market, because it may damage the unit.
- Do not use a disc with tape, seals, or paste on it, because damage to the unit may result.

### Note about copyright laws

- Please check the copyright laws in your country before recording from DVD VIDEO, Audio CD, Video CD, SVCD, MP3 and JPEG discs. Recording of copyrighted material may infringe copyright laws.

### Note about the copyguard system

- DVD VIDEO discs are protected by the copyguard system. When you connect the unit to your VCR (or integrated TV/Video system), the copyguard system activates and the picture may not play back correctly.

## Safety precautions

### Avoid moisture, water and dust

Do not place the unit in moist or dusty places.

### Avoid high temperatures

Do not expose the unit to direct sunlight or place it near a heating device.

### When you are away

When you are away on travel or otherwise for an extended period of time, remove the plug from the wall outlet.

### Do not insert foreign objects into the unit

Do not insert wires, hairpins, coins, etc. into the unit.

### Do not block the vents

Blocking the vents may damage the unit.

### Care of the cabinet

When cleaning the unit, use a soft cloth and follow the relevant instructions on the use of chemically-coated cloths. Do not use benzene, thinner or other organic solvents and disinfectants. These may cause deformation or discoloring.

### If water gets inside the unit

Turn off the power switch and remove the plug from the wall outlet, then call the store where you made your purchase. Using the unit in this state may cause a fire or electrical shock.

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# About discs

## Playable disc types

Playable and non-playable disc types are as follows:

<b>DVD VIDEO</b> 	<b>SVCD</b> 	<b>Video CD</b> 	<b>Audio CD</b> 
---	--	--	--

The DVD Logo is a trademark.

- CD-R and CD-RW discs recorded in the Audio CD, Video CD, SVCD, MP3 or JPEG format can be played back. However, some discs may not be played back because of the disc characteristics or recording conditions.  
Note that unfinalized discs cannot be played back.
- DVD-R discs recorded with the DVD VIDEO format can be played back. However, some discs may not be played back because of the disc characteristics or recording conditions.  
Note that unfinalized disc cannot be played back.
- DVD VIDEO players and DVD VIDEO discs have their own Region Code numbers. This unit can play back only DVD VIDEO discs whose Region Code numbers include "2."

Examples of playable DVD VIDEO discs:



This unit accommodates the PAL system.

## Non-playable discs

DVD-ROM, DVD-RAM, DVD-RW, DVD+RW, DVD-AUDIO, CD-ROM, PHOTO CD, CD-EXTRA, CD-G, CD-TEXT, SACD, MIX-MODE CD

- Playing back discs listed as "Non-playable discs" above may generate noise and damage speakers.
- This unit can play back audio signals recorded in CD-G, CD-EXTRA, CD-TEXT and MIX-MODE CD discs.

## Audio formats

Some audio formats used on discs are described below.

- **Linear PCM**  
Uncompressed digital audio, the same format used on CDs and most studio masters.  
DVD VIDEO supports 2 channels at sampling rates of 48/96 kHz and quantization of 16/20/24 bits.  
Audio CD/Video CD is limited to 2 channels at 44.1 kHz at 16 bits.
- **MPEG Multichannel**  
A surround audio format which can handle the augmentative 7.1-channel format (rare for home use), as well as 5.1-channel.
- **Dolby Digital**  
A surround audio format configured with six channels. Because the "LFE (Low-Frequency Effect for sub-woofer, etc)." channel, one of the six channels, is an auxiliary channel, this format is called "5.1-channel system."  
Not all Dolby Digital discs contain six (5.1) channel information.
- **DTS (Digital Theater Systems)**  
A surround audio format configured with six (5.1) channel which is same as Dolby Digital. Because the compression ratio is lower than Dolby Digital, it provides wider dynamic range and better separation.  
Not all DTS discs contain six (5.1) channel information.

The associated indicator lights up in the display window when playing back a disc.

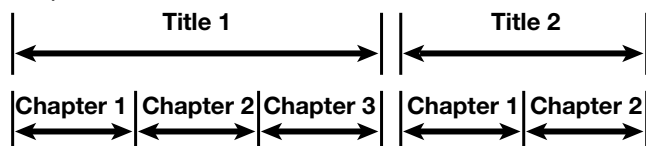
Indicator	Audio format
LPCM	Linear PCM
MPEG	MPEG Multichannel
DOLBY DIGITAL	Dolby Digital
DTS	DTS (Digital Theater Systems)

Note that with some formats and/or depending on the unit's "DIGITAL AUDIO OUTPUT" setting, digital audio signals may not always transmitted from the unit's DIGITAL OUT jacks as are recorded on the disc. See "DIGITAL AUDIO OUTPUT" on page 51 for details.

## Disc structure

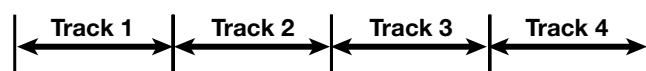
### (For DVD VIDEO)

A DVD VIDEO disc is comprised of "titles" and each title may be divided into "chapters." For example, if a DVD VIDEO disc contains some movies, each movie may have its own title number, and each movie may be divided into some chapters. In a DVD VIDEO KARAOKE disc, each song usually has its own title number and does not have chapters.



### (For Audio CD/Video CD/SVCD)

An Audio CD, Video CD or SVCD is simply comprised of "tracks."



## Video CDs and SVCDs with Playback Control function

### What is Playback Control (PBC) function?

The Playback Control function allows you to enjoy menu-driven operation and high-resolution still images which have a resolution four times greater than moving pictures.

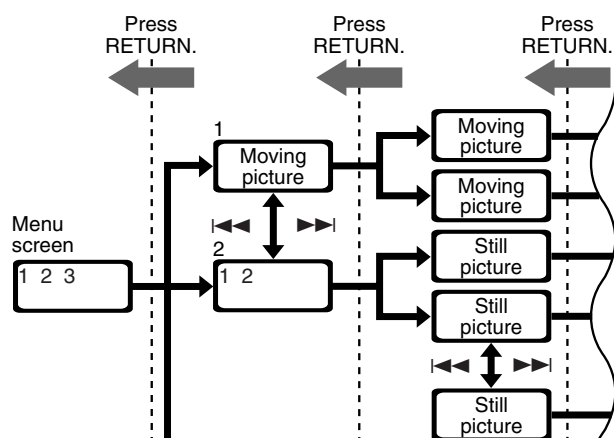
- **High-resolution still image display**  
You can display high-quality images four times clearer than moving pictures.

- **Menu-driven playback**

A selection menu is displayed when you start playing a Video CD or SVCD disc with the Playback Control feature. The selection menu shows a list of numbers for selection. Some discs may show moving pictures or a divided screen.

You can interact with the screen using the menu display to select and play an entry.

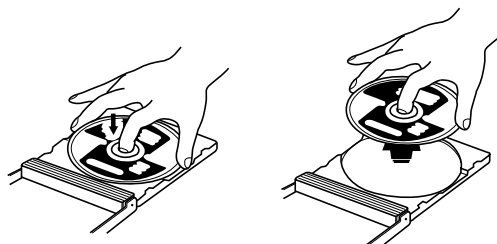
See illustration below about basic feature of menu-driven playback (See page 23 for more information about PBC (Playback Control).)



## Care and handling of discs

### How to handle discs

When handling a disc, do not touch the surface of the disc. Since discs are made of plastic, they are easily damaged. If a disc gets dirty, dusty, scratched or warped, the images and sound will not be picked up correctly, and such a disc may cause the player to malfunction.



### Label side

Do not damage the label side, stick paper to or use any adhesive on its surface.

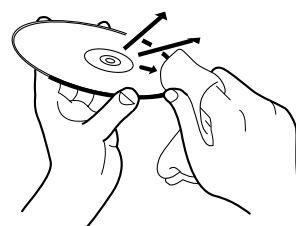
### Storage

Make sure that discs are kept in their cases. If discs are piled on top of one another without their protective cases, they can be damaged. Do not put discs in a location where they may be exposed to direct sunlight, or in a place where the humidity or temperature is high. Avoid leaving discs in your car!

### Maintenance of discs

If there are fingerprints or other dirt adhering to a disc, wipe with a soft dry cloth, moving from the center outwards.

If a disc is difficult to clean, wipe with a cloth moistened with water. Never use record cleaners, petrol, alcohol or any anti-static agents.



### CAUTION

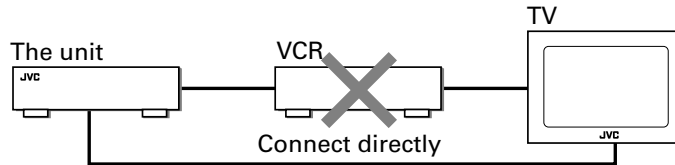
The image may be sometimes poor or noisy due to defects in the disc itself.

## Connections

\*Before using the unit, you have to connect the unit to a TV and/or amplifier.

### Before making any connections

- Do not connect the AC power cord until all other connections have been made.
- Connect VIDEO OUT of the unit directly to the video input of your TV. Connecting VIDEO OUT of the unit to a TV via a VCR may cause a monitor problem when playing back a copy-protected disc. You may also have a monitor problem when connecting the unit to an integrated TV/Video system.



#### NOTES

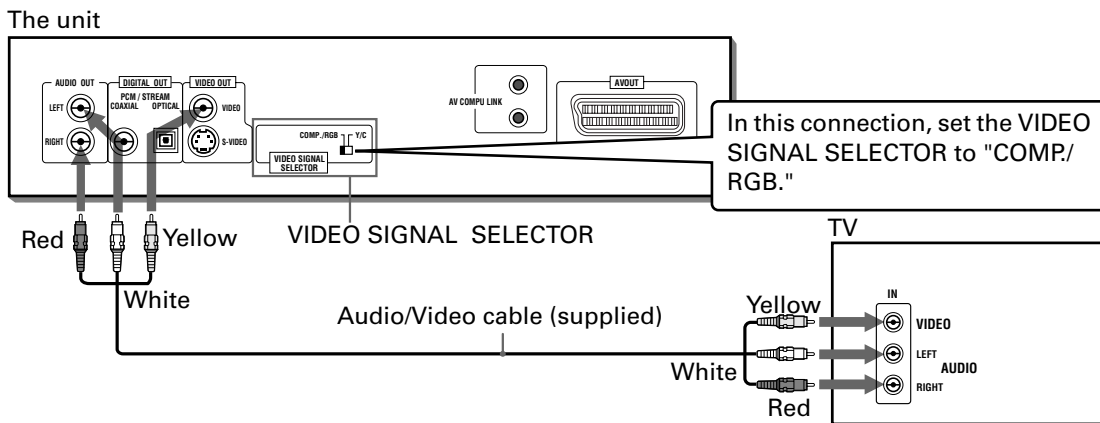
- In the following description, "TV" may be substituted with "monitor" or "projector."
- Terminal names used for other components may be different from those used in the following description.

### To connect to a TV

#### Connection to a conventional TV

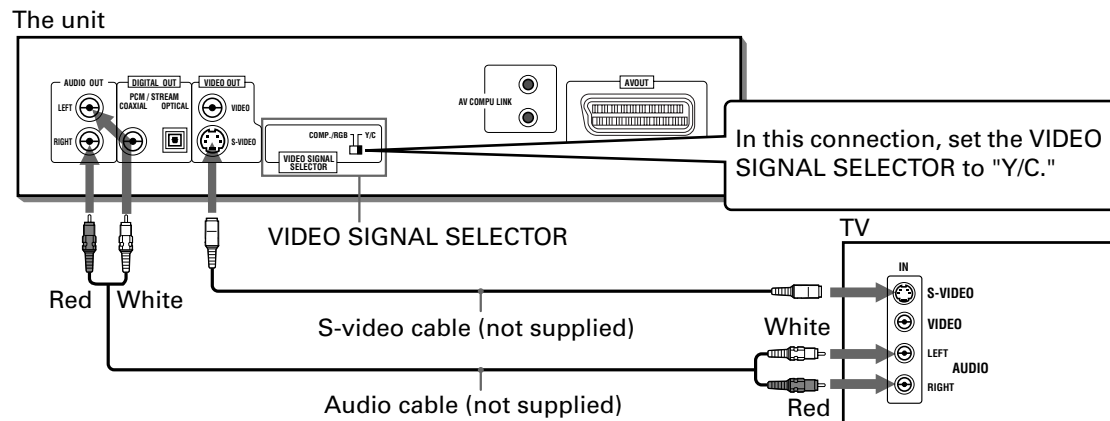
You can enjoy playback by simply connecting the unit to a TV.

Connect the unit to a TV equipped with stereo audio input and video input jacks using the supplied audio/video cables.



#### Connection to a TV equipped with an S-video jack

If your TV has an S-video input, you can get better picture quality by connecting it with the S-VIDEO output of the unit using an S-video cable instead of connecting the video input of the TV to the VIDEO jack of the unit.



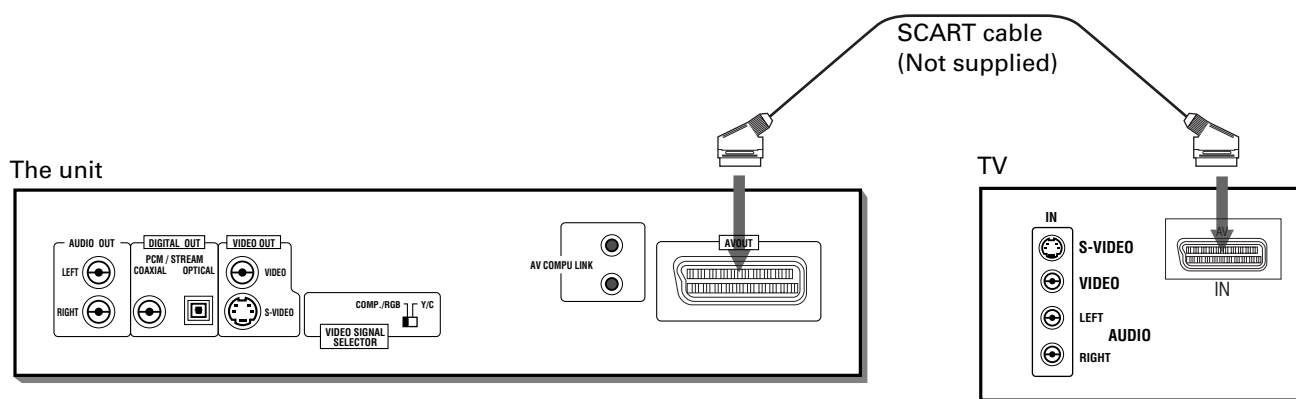
#### NOTES

- Connect the unit to a PAL TV or multi-scan TV.
- Even if cables are connected to both the VIDEO OUT terminals and S-VIDEO terminal, video signal will only be transmitted from the port selected by the settings.
- You must change the switch position while the unit power is off. Otherwise, the changed setting is not effective.



## To connect to a TV with the SCART connector

You can enjoy using the unit by simply connecting it to your television set with a 21-pin SCART cable. To hear audio sound with better quality, connect the audio output to your audio equipment.



## Set the VIDEO SIGNAL SELECTOR correctly according to your TV.

- If the TV only accommodates the composite video signal, set the switch to "COMP./RGB."
- If the TV accommodates Y/C signals, set the switch to "Y/C" so that you can enjoy better-quality pictures.
- If the TV accommodates RGB signals, set the switch to "COMP./RGB," and set the unit to supply RGB signals using the procedure shown below.

## How to set the unit to supply RGB signals

The unit cannot output the RGB signals from the SCART connector and the S-video (Y/C) signals from the S-VIDEO jack simultaneously.

- When the unit is turned off

### 1 Set the VIDEO SIGNAL SELECTOR to "COMP./RGB."

Note that you must change the switch position while the unit power is off. Otherwise, the changed setting is not effective.

### 2 Turn the unit to on.

The RGB signal outputs from the SCART connector.

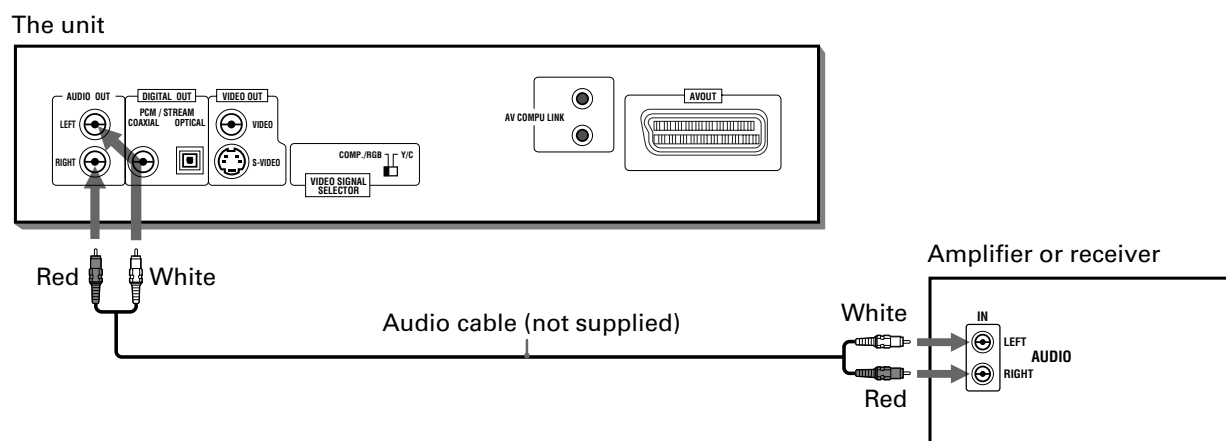
## NOTE

- Connect the unit to a PAL TV or multi-scan TV.

## To connect to a stereo audio amplifier/receiver

You can enjoy high-quality audio by connecting the unit's audio output to your amplifier or receiver.

Connect the unit's AUDIO OUT (LEFT/RIGHT) jacks to any line-level inputs (such as AUX, DVD, CD, etc.) of an audio amplifier or receiver.



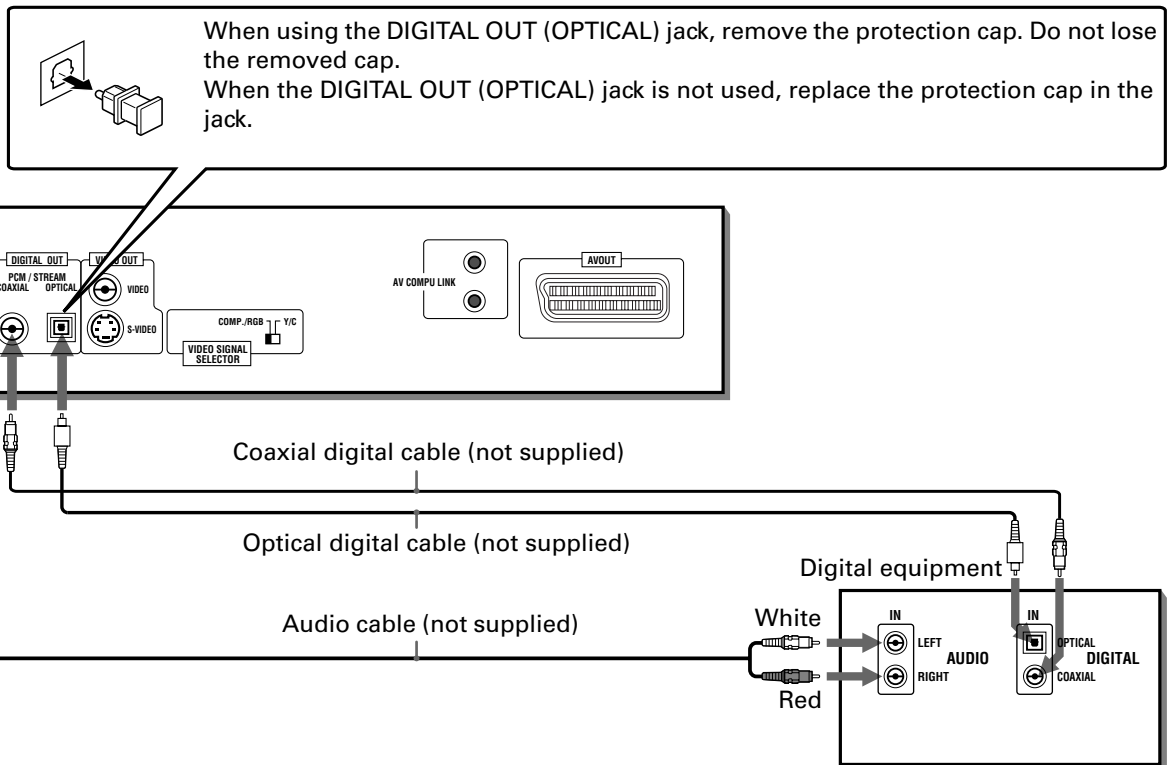
## NOTE

- When using the unit with a stereo amplifier or receiver, set "ANALOG DOWN MIX" in the "AUDIO" preferences to "STEREO" (see page 52).

## To connect to a digital audio device

You can enhance the playback sound quality by connecting either of the unit's DIGITAL OUT jacks to the digital input of an amplifier, etc. by using an optical or a coaxial digital cable (optional). The digital audio signal from a disc will be transferred directly. If you connect the unit to a Dolby Digital or DTS decoder or an amplifier with a built-in decoder using an optional digital cable, you can enjoy high-quality surround sound.

For a digital connection, connect the unit's DIGITAL OUT (OPTICAL or COAXIAL) to the digital input of a digital audio device using an optical or a coaxial digital cable.



### NOTES

- When you make digital connection, we recommend also to make the analog connection, because, depending on discs, no signal may be output from the DIGITAL OUT.
- When you connect the unit's DIGITAL OUT to a digital audio device, before using, set "DIGITAL AUDIO OUTPUT" in the "AUDIO" preferences correctly according to the connected audio device. If "DIGITAL AUDIO OUTPUT" is not set correctly, loud noise may be generated from speakers, causing damage to them. See "DIGITAL AUDIO OUTPUT" on page 51.
- When you connect the unit's DIGITAL OUT to a Dolby Digital or DTS decoder (or amplifier with a built-in decoder) to enjoy surround sound, the unit's "D. RANGE COMPRESSION" setting in the "AUDIO" preferences is invalid. Make appropriate surround audio settings on the decoder.

## To connect the power cord

When all the audio/video connections have been made, insert the other end to the wall outlet. Make sure that plugs are inserted firmly. The STANDBY indicator lights in red.



### Warning

- Disconnect the power cord if you are not going to use the unit for a long time.
- Disconnect the power cord before cleaning the unit.
- Disconnect the power cord before moving the unit.
- Do not connect or disconnect the power cord with wet hands.
- Do not pull the power cord when disconnecting it, as this may damage the cord and cause fire, electric shock, or other accidents.



### Caution

- Do not alter, twist or pull the power cord, or put anything heavy on it, which may cause fire, electric shock, or other accidents.
- If the cord is damaged, consult a dealer and have replacing to the new power cord.

## Using the remote control unit

Using the remote control, you can operate not only all the functions of the unit but also basic functions of your TV and amplifier/receiver.

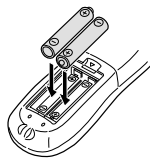
### To install batteries in the remote control unit

The battery compartment is located on the back of the remote control unit.

- 1 Press down on the point shown by the arrow at the top of the compartment cover, and pull up the cover to open the compartment.



- 2 Place the two supplied R6P (SUM-3)/AA(15F) batteries in the remote control unit according to the polarity markings ("+" and "-") inside the compartment and on the batteries.



- 3 Place the cover over the compartment, and press down lightly.



The batteries will last about six months with normal use. If the functions of the remote control become erratic, replace the batteries. See below for more information.

### Precautions for the safe use of batteries

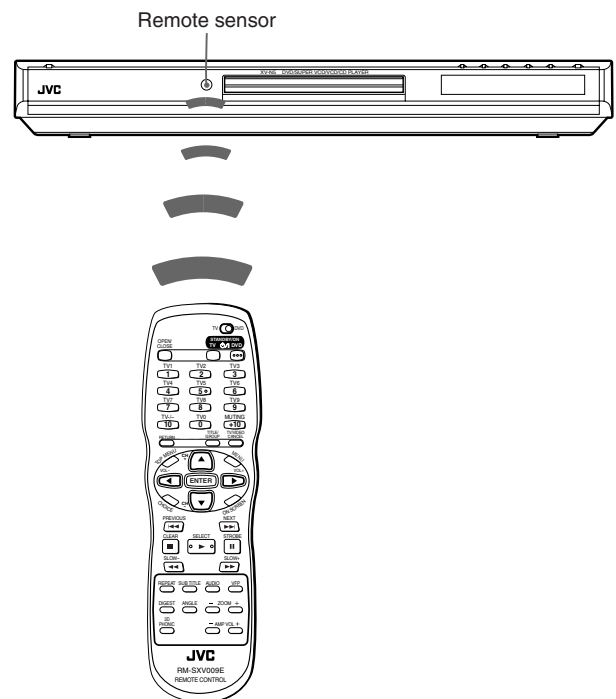
Observe the following precautions for the safe use of batteries. If they are used improperly their life will be shortened, they may burst or their contents may leak.

#### Precaution

- Remove the batteries from the remote control if it is not going to be used for a long period of time.
- Remove dead batteries and dispose of them properly.
- Never leave dead batteries lying around, take them apart, mix them with other refuse, or throw them into an incinerator.
- Never touch liquid that has leaked out of a battery.
- Do not mix new and old batteries, or batteries of different types, when replacing them.

### Remote sensor

- Operate the remote control unit while pointing it toward the remote sensor on the unit.
- The remote control unit can be used within a range of about 5 meters from the remote sensor. If you operate the remote control unit from a diagonal position, range may be shorter.



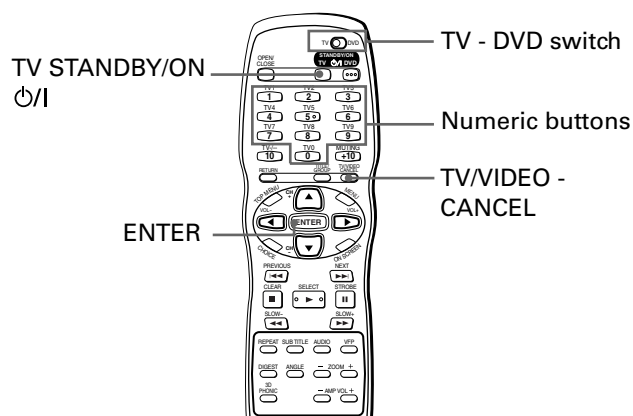
#### NOTE

- If the remote sensor on the unit is exposed to the sunshine or strong light, you may not be able to control the unit from the remote control unit.

## To use the remote control unit for TV operation

You can operate your TV from the remote control unit.

### Setting the remote control signal for operating your TV



- 1 Set the TV - DVD switch to "TV."
- 2 Hold down TV/VIDEO - CANCEL until step 4 is finished.
- 3 Enter the manufacturer code of your TV listed below by using the numeric buttons (0 to 9).

#### Example:

To enter the manufacturer code "01": Press "0" then "1."



- When you purchased the unit, the manufacturer code is set to "JVC" (01).

- 4 Press ENTER.

#### Manufacturer code list

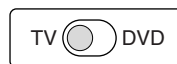
Manufacturer	No.	Manufacturer	No.
AIWA	36	MIVAR	29
BEIJING	22	NEC	20
CCE	02	NOBLEX	22
CHANGHONG	34	NOKIA	31
DAEWOO	17, 37	PANASONIC	04, 11
FERGUSON	27	PEONY	34, 38, 39
FINLUX	30	PHILCO	10, 17, 21
FUNAI	32	PHILIPS	02
GRADIENTE	15, 20	RCA	05
GRUNDIG	19	SAMSUNG	12, 33, 34, 35
HITACHI	10		
ITT	28	SANYO	13, 16
JINXING	38	SEARS	13
JVC	01, 23, 24, 25	SHARP	06
		SONY	07
KONKA	40	TCL	41
LG (GOLDSTAR)	18	THOMSON	26
MAGNAVOX	02	TOSHIBA	08, 14
MITSUBISHI	03	ZENITH	09

- 5 Release TV/VIDEO - CANCEL.

- 6 Try to operate the TV by pressing TV STANDBY/ON . If your TV turns on or off, you have successfully set the control signal.

The following buttons can be used for operating the TV.

To use / (CH+, CH-), / (VOL-, VOL+), TV/VIDEO - CANCEL and numeric buttons for TV control, set the TV - DVD switch to "TV."



	<b>Turns the TV on or off.</b>
	<b>Switches the TV input mode between TV and VIDEO.</b>
	<b>Selects the TV channels directly.</b> * For some TVs, pressing "+10" functions as the "100+," while "10" functions as the ENTER button if your TV requires pressing the ENTER button after selecting a channel number.
	<b>Mutes the TV sound.</b>
	<b>Changes the TV channels.</b>
	<b>Adjusts the TV volume.</b>

#### NOTE

- If there is more than one code listed for the manufacturer of your TV, try them one by one until you succeed.

## To control the volume of a JVC amplifier or receiver

You can control the volume of a JVC's amplifier or receiver by using the AMP VOL +/- buttons on the remote control unit.



Pressing the + button raises the audio volume of the amplifier or receiver, while pressing the - button lowers the volume.

# Basic operations

In the following description, we assume that the buttons on the remote control unit are mainly used; however, you may use the corresponding buttons on the front panel if available.




## NOTE

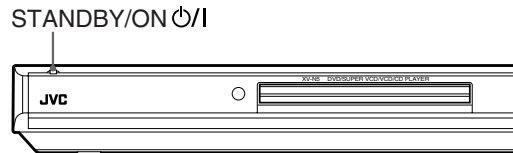
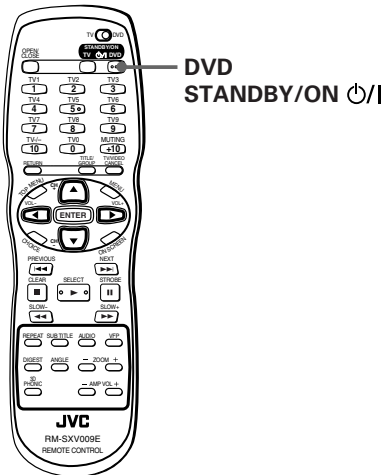


Make sure that the TV - DVD switch on the remote control unit is set to "DVD" when using the ▲/▼/◀/▶ and numeric buttons for controlling the unit.

## Before operation

### Turning on/off the unit

Press DVD STANDBY/ON  on the remote control unit or press STANDBY/ON  on the front panel. The STANDBY indicator on the STANDBY/ON  button, which lights in red during standby, light in green.



## Hints

- You can turn on the unit by pressing the ► button. In this case, the unit starts playback if the disc is set in the disc tray. If no disc is set, "NO DISC" appears on the display window.
- You can turn on the unit by pressing the ▲ button on the front panel. In this case, the disc tray opens.



The opening display shown at right appears on the TV screen. The following messages may appear at the bottom of the opening display.

- NOW READING: The unit is reading the disc information.
- REGION CODE ERROR!: The region code of the DVD VIDEO disc does not match the unit. The disc cannot be played back.
- OPEN: The disc tray is opening.
- CLOSE: The disc tray is closing.
- NO DISC: No disc is loaded.
- RESUME STOP: The unit stops and memorizes the interrupted position.



Message area

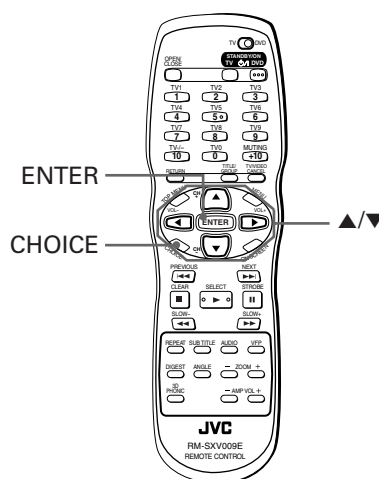
## NOTE

- Even if you press the DVD STANDBY/ON  on the remote control unit or STANDBY/ON  on the front panel to turn off the unit, the unit is not disconnected from the AC power source as long as it is connected to the wall outlet. This state is called standby mode. In this state, the unit consumes a very small amount of power.

## Initial setup before using the unit

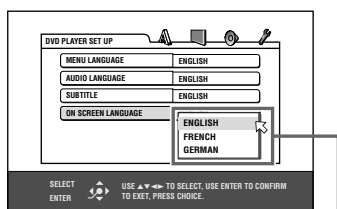
We recommend you to set the display language, TV monitor type and digital output before using the unit, by following the procedure below.

See "Changing the initial settings" beginning on page 48 for details about each setting item.



- 1 Press CHOICE for a few seconds to bring up the first page of the DVD PLAYER SET UP display.

The pull-down menu of the "ON SCREEN LANGUAGE" is already open.



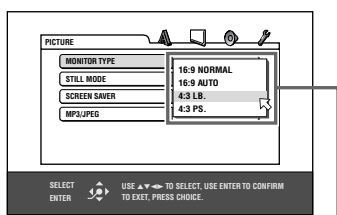
ON SCREEN LANGUAGE options

- 2 Use ▲/▼ to select a desired language.

You can select the on-screen language for the preference displays, etc. from among English, French and German.

- 3 Press ENTER.

The second page is shown, in which the pull-down menu of the "MONITOR TYPE" is already open.



MONITOR TYPE options

- 4 Use ▲/▼ to select a desired monitor type.

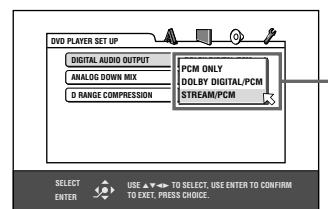
You can select the monitor type according to your TV.

- For a normal (conventional) TV, select "4:3 LB" or "4:3 PS."
- For a wide-screen TV, select "16:9 AUTO" or "16:9 NORMAL."

See page 50 for details about each mode.

- 5 Press ENTER.

The third (final) page is shown, in which the pull-down menu of the "DIGITAL AUDIO OUTPUT" is already open.



DIGITAL AUDIO OUTPUT options

- 6 Use ▲/▼ to select a desired digital output signal type.

You must set this item correctly when you connect the unit to an external surround decoder or D/A convertor (including an amplifier/receiver with built-in surround decoder or D/A convertor). (If you do not connect the unit to such a device, you do not have to set this item.)

- When connecting with a Dolby Digital decoder, select "DOLBY DIGITAL/PCM."
- When connecting with a DTS or MPEG Multichannel decoder, select "STREAM/PCM."
- When connecting with other digital device, select "PCM ONLY."

See page 51 for details.

- 7 Press ENTER.

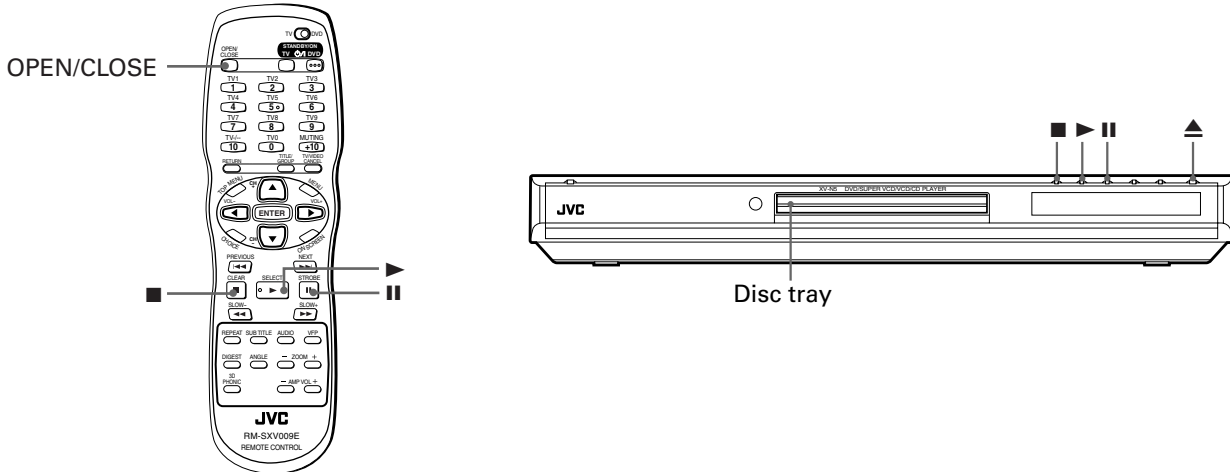
The TV screen returns to showing the opening display.

### NOTES

- This setting may not be necessary except when first turning on the power after purchasing the unit.
- You can also set these items, as well as other preferences, by pressing CHOICE briefly to bring up the preference display. See "Changing the initial settings" on and after page 48 for details.

# Basic playback

This section describes basic operations for playback of DVD VIDEO, Audio CD, Video CD and SVCD discs. For MP3 and JPEG disc playback, see the separate chapter beginning on pages 40 and 43.



Basic operations

## Inserting and removing discs

- 1 Press to open the disc tray.
- 2 Place a disc in the tray.
- 3 Press to close the disc tray.

The unit reads the disc information and the opening display appears on the TV screen.



### If a menu is shown on the TV screen

When inserting a DVD VIDEO, Video CD or SVCD disc, a menu display may be automatically shown on the TV screen. From the menu, you can select a desired item to be played back by following the procedure below.

(for DVD VIDEO)

- 1 Use to select a desired item.
- 2 Press ENTER.

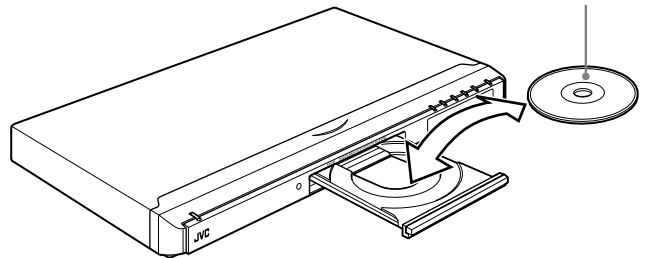
The unit starts playback of the selected item.

(for Video CD/SVCD)

Use the numeric buttons to select a desired item.

The unit starts playback of the selected item.

With the label side up



- To insert an 8-cm disc, place it in the inner recess.

### NOTES

- Do not load a non-playable disc. For details about playable and non-playable disc types, see page 4.
- When loading a disc on the disc tray, be sure to position the disc inside the recess. Otherwise, the disc may be damaged when the disc tray is closed, or you may not be able to remove the disc from the unit.
- Do not use any stabilizer when playing back a disc.
- With some DVD VIDEO discs, the unit starts playback automatically after inserting the disc.
- If you insert a DVD VIDEO disc whose region code does not match the unit, "REGION CODE ERROR!" is shown in the opening display. For details about the region code, see page 4.



## To start playback

Available :    

Press .

The unit starts playback from the beginning.



### About screen saver function

- A television monitor may have an image burned into it if a static image is displayed for a long time. To prevent this, the unit automatically activates the screen saver function if a static picture, such as an on-screen display or menu, is displayed for over 5 minutes.
- Pressing any buttons on the unit or the remote control unit will release the screen saver function and return to the previous display.
- You can also turn off the screen saver function (see page 51).

While the screen saver function is not activated













While the screen saver function is activated





### About On-screen guide icons

- When you make an operation, you may see the following icons displayed over the picture for about 3 seconds. These have the following meanings.

You can set the unit not to display these icons above via the preference settings described on page 53.

Icon	Status
	Appears at the beginning of playback mode.
	Appears at the beginning of pause mode.
	Appears at the beginning of fast forward/backward playback with the current speed. (see page 18).
	Appears at the beginning of slow-motion playback with the current speed. (see page 19).
	Appears at the beginning of Repeat playback mode. (see page 28).
	Appears at the beginning of a scene recorded from multiple angles. (see page 32).
	Appears at the beginning of a scene recorded with multiple audio languages. (see page 31).
	Appears at the beginning of a scene recorded with multiple subtitle languages. (see page 30).
	Appears when the unit does not accept your operation because of disc contents, structure, playback status etc. Note that some operations may not be performed even if  is not displayed.

### NOTES

- When the RESUME function is "ON" or "DISC RESUME" and a resume point is set, pressing  starts playback from that point instead of the beginning. See page 17.
- During playback, the display window shows the title/chapter or track number being played.
- During DVD VIDEO playback, pressing  moves the playback position back 10 seconds before the current position. See page 22 for details.


## To stop playback completely

Available :    

Press .

The unit stops playback.



- If you press  during playback, the unit stops playback and opens the disc tray.

## To stop playback temporarily

Available :    

Press .

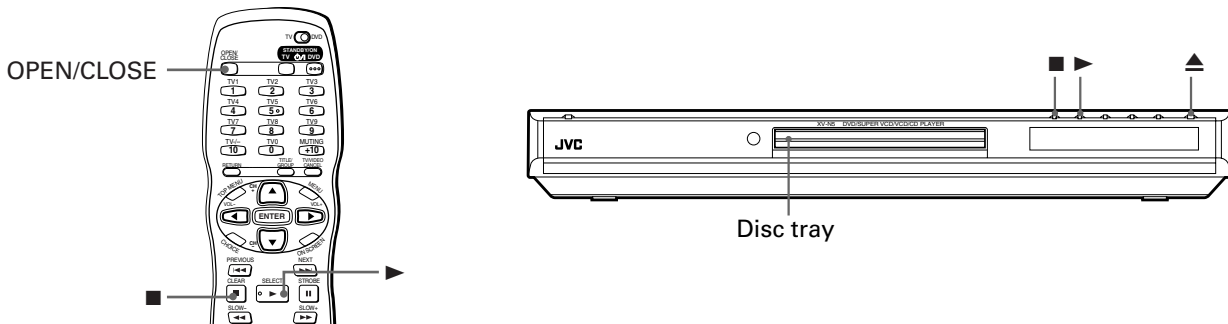
The unit pauses playback. To resume playback, press .

## Resuming playback

The unit can remember the position on a disc where you interrupt playback, and resume playback from that position later. You can set two resume modes (DISC RESUME and ON) using the preference display. See page 53 for details about how to set the resume mode.

### Hints

- The resume mode is initially set to "ON" when you purchased.
- You can deactivate the resume mode by setting "RESUME" on the "OTHERS" preference display to "OFF."



## To memorize the interrupt position

Available : **DVD VIDEO** **Video CD** **Super VCD**

- During playback

### When the resume mode is set to "DISC RESUME"

Press ■.

The unit stops playback and memorizes the interrupt position. After pressing ■, the display window on the front panel shows "RESUME STOP."

In this condition, the memory of the interrupt position is not cleared if you press ▲ to open the disc tray, or press STANDBY/ON ⏻ (on the front panel) or DVD STANDBY/ON ⏻ (on the remote control unit) to turn off the unit.

### Hints

- The interrupt position is also remembered when you press ▲, STANDBY/ON ⏻ (on the front panel) or DVD STANDBY/ON ⏻ (on the remote control unit). In this case, "RESUME STOP" is not shown on the display window.
- To clear the memory, press ■ while the disc stopped.
- The unit remembers interrupt positions for the last 30 discs played.
- If you interrupt the playback of a disc for which an interrupt position has already been stored, the memory will be updated with the new interrupt position.
- After the unit has stored interrupt positions for 30 discs, remembering a new interrupt position will cause the unit to delete the oldest stored position. Interrupting playback of a disc for which an interrupt position is already stored may change the order in which the positions are stored. This may potentially change the order in which positions are deleted.

### When the resume mode is set to "ON"

Press ■.

The unit stops playback and memorizes the interrupt position.

In this condition, the memory of the interrupt position is not cleared if you press STANDBY/ON ⏻ (on the front panel) or DVD STANDBY/ON ⏻ (on the remote control unit) to turn off the unit.

Note that if you press ▲ to open the disc tray, the memory of the interrupt position is cleared.

### Hints

- The interrupt position is also stored by pressing STANDBY/ON ⏻ (on the front panel) or DVD STANDBY/ON ⏻ (on the remote control unit).
- To clear the memory, press ■ while the disc stopped.

## To resume playback

Available :   

### When the resume mode is set to "DISC RESUME"

- While stopped, or no disc is inserted

#### 1 Press to insert a disc for which the unit has stored an interrupt position.

After loading the disc, the display window on the front panel shows "RESUME STOP."

(If a disc for which you want to resume playback is already set in the disc tray, go to step 2).




#### 2 Press .

The display window shows "RESUME PLAY" and the unit resumes playback from the position where playback was interrupted.

The unit maintains the memory of the interrupt position for the disc, even if you remove the disc from the disc tray and replace it again. The unit also maintains the memory of the interrupt position while the disc is in the disc tray.


- **To play back a disc from the beginning (instead of the interrupted position)**

After loading the disc, press  before pressing  to start playback.

Pressing  while the disc is stopped clears the memory of the interrupted position.



Every time you interrupt playback, the position is remembered as the new "resume" point.

### When the resume mode is set to "ON"

- While the disc you interrupted playback last time\* is still on the disc tray (\*by pressing  or by turning off the power).

Press .



The unit resumes playback from the position where playback was interrupted.




If you press  then , the unit starts playback after the display window shows "RESUME PLAY."

Note that you cannot resume playback if you interrupted playback last time by opening the disc tray.

- **To play back a disc from the beginning (instead of the interrupted position)**

Do any of the following:

\* Press  while stopped, then press .

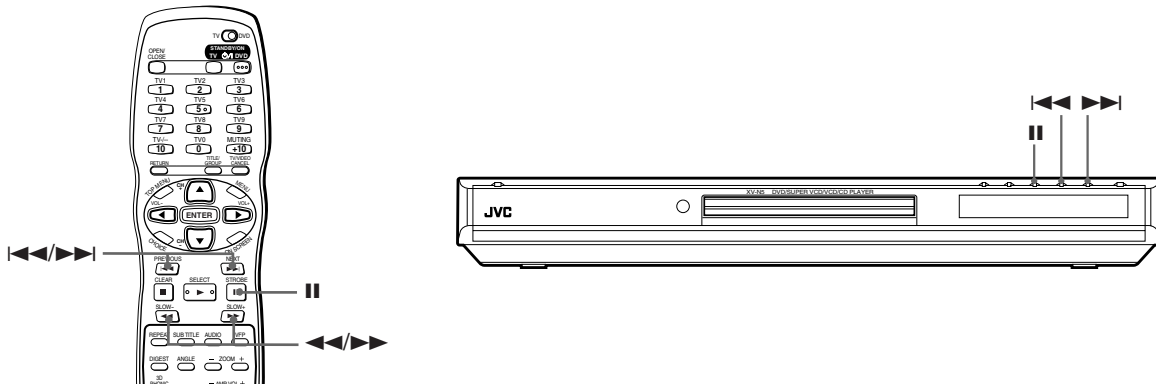
\* Turn on the unit by pressing DVD STANDBY/ON  on the remote control unit or STANDBY/ON  on the front panel then press .

#### NOTES

- If you use the "OTHERS" preference display to change the "RESUME" setting from "DISC RESUME" to "OFF" or "ON," you cannot resume playback of a disc whose "resuming" position is stored. However, if you again set "RESUME" to "DISC RESUME," you will then be able to resume playback of the disc.
- If you open the disc tray while RESUME mode is set to ON, the "resume" point will be cleared.
- The resume function does not work with Audio CD, MP3 and JPEG discs.
- In the case of a Video CD/SVCD disc with PBC function, the unit may resume playback from a point slightly earlier or later than the point where playback was interrupted.
- The unit may not resume playback exactly from the interrupt point.
- For a double-sided DVD VIDEO disc, the unit regards each side as a different disc. Therefore, to resume playback of such a disc, the disc must be loaded with the same side down.
- When the unit remembers an interrupt point for a disc, it also remembers Audio, Subtitle and Angle settings (regardless of whether "RESUME" is set to "DISC RESUME" or "ON").
- If you interrupt playback while the menu for a DVD VIDEO, SVCD or Video CD is shown on the TV screen, the unit may not correctly remember the interrupt position, regardless of whether the "RESUME" mode is set to "ON" or "DISC RESUME."

# Variable speed playback

You can speed up or slow down playback, or advance the video frame by frame.



## To advance or reverse playback rapidly while monitoring

Available : **DVD VIDEO** **Audio CD** **Video CD** **Super VCD**

- During playback

### Method 1 (from the remote control unit only)

Press ◀◀ or ▶▶.

Each press of ◀◀ or ▶▶ decreases or increases the playback speed. You can select from 2 ×, 5 ×, 10 ×, 20 × and 60 × normal speed.

Pressing ▶ returns the unit to normal playback.

### Method 2

Hold down ◀◀ or ▶▶.

Holding down ▶▶ advances playback rapidly, while holding down ◀◀ reverses playback rapidly, at 5 times the normal speed. Releasing the button returns the unit to normal playback.

#### NOTES

- During rapid playback, the sound will be muted except when playing an Audio CD. When using rapid playback with an Audio CD, the sound will be played discontinuously.
- This function does not work for an MP3 disc.

## To advance a still picture frame by frame

Available : **DVD VIDEO** **Video CD** **Super VCD**

- While paused (still)

Press ⏸.

Each time you press ⏸, the still picture advances to the next frame.

Pressing ▶ returns to normal playback.

## To playback in slow motion

Available :   

You can playback video in slow-motion. You can select from 1/32 ×, 1/16 ×, 1/8 ×, 1/4 × and 1/2 × normal speed.

● During playback

Press **II**, then use **◀◀/▶▶**.

To play forward slow motion, press **▶▶**, and to play reverse slow motion (for DVD VIDEO discs only), press **◀◀**.

First, the unit plays the slowest speed, and each time you press the button, the playback speed increases.

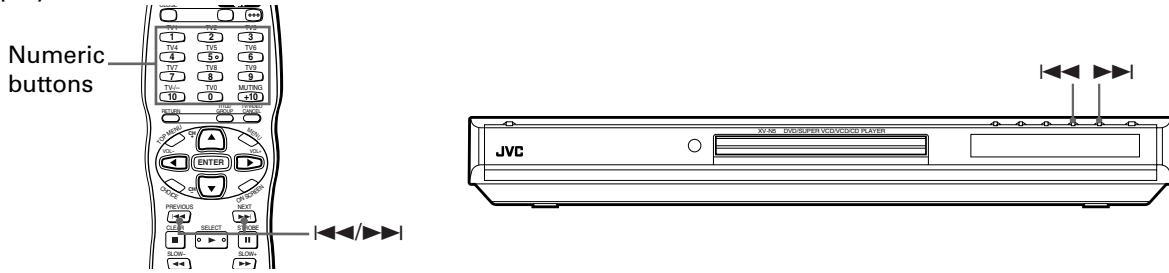
Pressing **▶** returns to normal playback. Pressing **II** pauses slow motion playback.

### NOTES

- The sound is muted during slow motion playback.
- Reverse slow motion playback is not possible for a Video CD and SVCD.

## To locate the beginning of the scene or song

You can locate the desired title or chapter (for DVD VIDEO), or track (for Audio CD/Video CD/SVCD) from which the unit starts playback.



## To locate a desired selection using ◀◀ or ▶▶

Available : **DVD VIDEO** **Audio CD** **Video CD** **Super VCD**

- For DVD VIDEO: During playback
- For Audio CD: During playback or while stopped
- For Video CD/SVCD: During playback without PBC function

Press ◀◀ or ▶▶.

With an Audio CD, Video CD or SVCD, pressing the button skips a track. With a DVD VIDEO disc, pressing the button skips a chapter or title depending on the disc configuration.

The selection number appears in the display window on the front panel.

- To skip forward titles/chapters/tracks, press ▶▶ as many times as required.
- To skip to the beginning of the current track/title/chapter, press ◀◀ once.
- To skip back titles/chapters/tracks, press ◀◀ as many times as required.

### NOTES

- This function may not work with some DVD VIDEO discs.
- This function does not work during Video CD/SVCD playback with PBC function (see pages 5 and 23).

## To locate a desired selection using the numeric buttons

Available : **DVD VIDEO** **Audio CD** **Video CD** **Super VCD**

- For DVD VIDEO/Audio CD: During playback or while stopped
- For Video CD/SVCD: During playback without PBC function or while stopped

Use the numeric buttons to specify the number.

Depending on the disc type and the unit status, what is specified differs.


Unit status	Disc type	What is specified
While stopped	DVD VIDEO	title or chapter*
	Audio CD/ Video CD/SVCD	track
During playback	DVD VIDEO	chapter
	Audio CD/ Video CD/SVCD	track

\* If a disc contains more than one title, a title is specified. If a disc contains only one title, a chapter is specified.

- To select a number between 1 and 10: Press the corresponding button for the number.
  - To select a number higher than 10: Use the +10 button.
- Examples:
- To select 13: +10 → 3
  - To select 34: +10 → +10 → +10 → 4
  - To select 40: +10 → +10 → +10 → 10

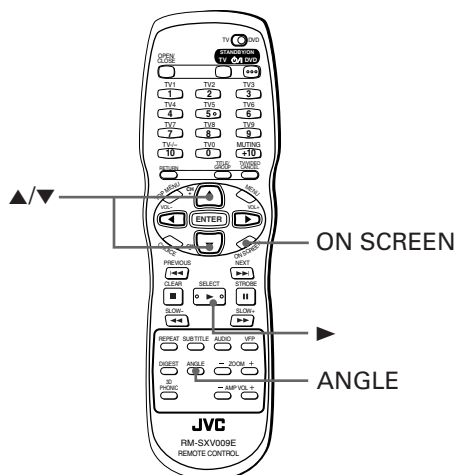
The unit starts playback from the beginning of the selection. The selected title, chapter or track number appears in the display window on the front panel.

**NOTES**

- You can also specify the desired title during DVD VIDEO playback. See page 24 for details.
- During DVD VIDEO playback, if a menu is shown on the TV screen, the numeric buttons may be used for selecting an item in the menu.
- When  appears on the TV screen:  
The title, chapter or track you have selected is not contained in the disc.
- This function does not work during Video CD/SVCD playback with PBC function (see pages 5 and 23).

## Other convenient functions

You can check the playback status, as well as change the brightness of the display window. Also, you can move back the playback position 10 seconds from the current position.



Basic operations

## To check the playback status

Available :    

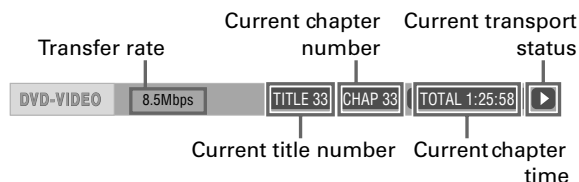
You can see the current selection number (the title/chapter number for DVD VIDEO or track number for Audio CD/Video CD/SVCD), time information (the track or chapter time while stopped, or the elapsed track or chapter time during playback) and the transport status (stop, playback, pause etc.) on the TV screen.

- During playback or while stopped

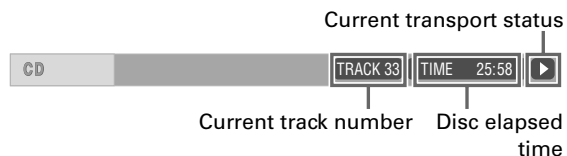
Press ON SCREEN.

The playback status bar appears on the TV screen.

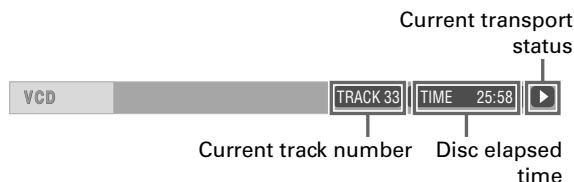
(for DVD VIDEO)



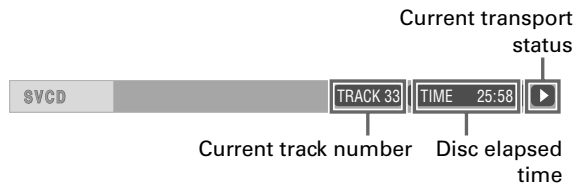
(for Audio CD)



(for Video CD)



(for SVCD)



The indication on the rightmost end of the status bar shows the unit's transport status as follows:

Icon	Status
	Playback mode.
	Stop mode.
	Pause mode.
	Fast forward/backward playback mode.
	Slow motion playback mode.

Note that pressing ON SCREEN again brings up the menu bar under the status bar, from which you can access various functions.

(Example of the menu bar for DVD VIDEO)



See page 36 for details about the menu bar.

**NOTE**

- **To dismiss the status bar:**  
Press ON SCREEN until the status bar is dismissed.

## To move back the playback position during DVD VIDEO playback [One touch replay function]

Available :

During playback of a DVD VIDEO disc, you can move back the playback position 10 seconds from the current position.

- During DVD VIDEO playback

Press .

The playback position moves back 10 seconds before the current position.

Note that this function works only within the same title, though it works between chapters.

If you press within 10 seconds from the beginning of a title, playback starts from the beginning of the title.

**NOTES**

- **This function works only with DVD VIDEO discs.**
- **When appears on the TV screen:**  
This function may not work with some DVD VIDEO discs.

## To change the brightness of the display window

You can dim the brightness of the display window.

Press or while holding down ANGLE.

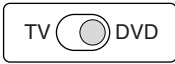
You can select the display window brightness from four levels, or off. If the brightness is set to off, nothing will be shown on the display.



# Advanced operations

This chapter describes operations for various advanced functions of DVD VIDEO, Audio CD, Video CD and SVCD discs. For MP3 and JPEG disc playback, see the separate chapters beginning on pages 40 and 43.

## NOTE



Make sure that the TV - DVD switch on the remote control unit is set to "DVD" when using the ▲/▼/◀/▶, numeric and TV/VIDEO - CANCEL buttons for controlling the unit.

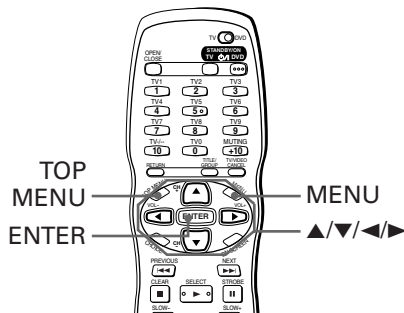
## Playing from a specific position on a disc

You can play a disc from the selected track, title or chapter, or from the specified time.

## To locate a desired scene from the DVD menu

Available :

DVD VIDEO discs generally have their own menus which show the disc contents. These menus contain various items such as titles of movies, names of songs, or artist information, and display them on the TV screen. You can locate a desired scene using the DVD menu.

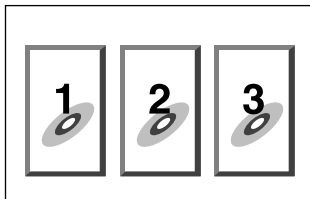


- Whenever a DVD VIDEO disc is loaded

### 1 Press TOP MENU or MENU.

The menu appears on the TV screen.

Example:



### About DVD VIDEO menu

Normally, a DVD VIDEO disc which contains more than one title may have a "title" menu which lists the titles. In this case, the menu appears on the TV screen when you press the TOP MENU button. Some DVD VIDEO discs may also have a different menu which appears when the MENU button is pressed.

See the instructions of each DVD VIDEO disc for its particular menu.

### 2 Use ▲/▼/◀/▶ to select a desired item, then press ENTER.

The unit starts playback of the selected item.



- With some discs, you can also select items by entering the corresponding number using the numeric buttons, which may cause the unit to automatically start playback.

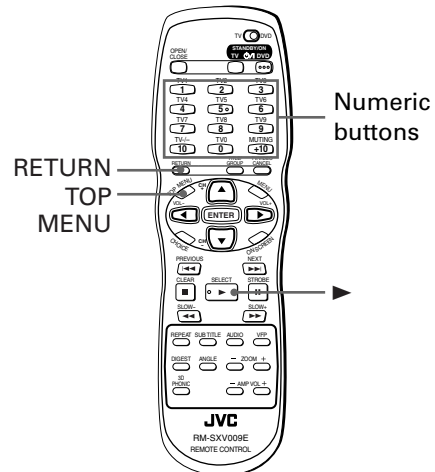
## NOTES

- When appears on the TV screen when you press TOP MENU or MENU in step 1:  
The disc does not have an appropriate menu listing the titles.
- The MENU button does not work while stopped.

## To locate a desired scene from the menu of a Video CD/SVCD with PBC

Available :

Some Video CD/SVCD discs support the PBC function. PBC is an abbreviation of "PlayBack Control." A Video CD/SVCD disc recorded with PBC has its own menus, such as a list of the songs of the disc. You can locate a specific scene by using the PBC menu.

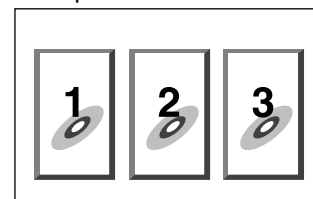


- When a Video CD/SVCD disc with PBC is stopped

### 1 Press ▶ or TOP MENU.

A disc menu appears on the TV screen (The PBC function is activated).

Example:



"PBC" is indicated in the display window on the front panel.

## 2 Use the numeric buttons to select the desired item.

- To select a number between 1 and 10:  
Press the corresponding button for the number.
- To select a number higher than 10:  
Use the +10 button.

Examples:

- To select 13: +10 → 3
- To select 34: +10 → +10 → +10 → 4
- To select 40: +10 → +10 → +10 → 10

The unit starts playback of the selected item. You can return to the menu by pressing the RETURN button.


When something like "NEXT" or "PREVIOUS" appears on the TV screen, the unit generally works as follows:

- Pressing ►► advances to the next page.
- Pressing ◀◀ returns to the previous page.
- \* The method of the operation may be different on different discs.

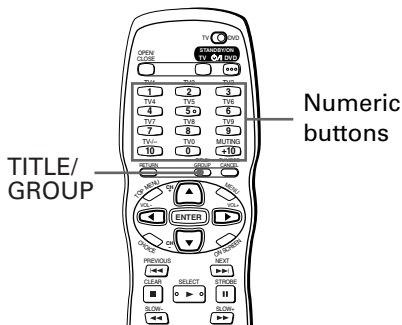
### Hints

- If you want to play a PBC-compatible Video CD/SVCD disc without activating the PBC function, start playback using the numeric buttons instead of ►. (See page 20).
- To activate the PBC function when a PBC-compatible Video CD/SVCD disc is being played back without the PBC function, do any of the following:
  - \* Press TOP MENU or MENU.
  - \* Press ■ to stop playback, then press ►.

## To specify a desired title

Available : 

While playing back a DVD VIDEO disc with more than one title, you can specify a desired title to be played using the numeric buttons.

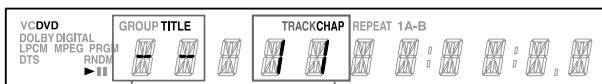


- During playback

### 1 Press TITLE/GROUP.

"--" is shown in the title display area of the display window.

(Display window example)



Title display area      Current chapter number

## 2 Use the numeric buttons to specify a title to be played.

- To select a number between 1 and 10:  
Press the corresponding button for the number.
- To select a number higher than 10:  
Use the +10 button.

Examples:

- To select 13: +10 → 3
- To select 34: +10 → +10 → +10 → 4
- To select 40: +10 → +10 → +10 → 10

The unit starts playback from the specified title.

### NOTE

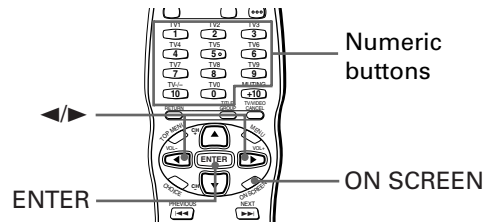
- This function may not work with some DVD VIDEO discs.

## To locate a desired position in the current title or track [Time search]

Available :    

You can play a disc from the desired position by specifying the time from the beginning of the current title (for DVD VIDEO), or the disc (for Audio CD/Video CD/SVCD) using the time search function.

Note that some DVD VIDEO discs do not contain time information, and the time search function cannot be used.



- For DVD VIDEO/Audio CD:

During playback or while stopped

- For Video CD/SVCD:

In any condition except Video CD/SVCD playback with PBC

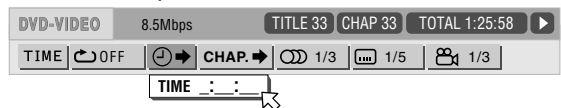
### 1 Press ON SCREEN twice.

The menu bar appears on the TV screen. (See page 36 for details about menu bar.)

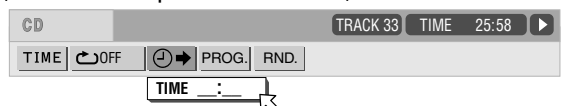
### 2 Use ◀/▶ to move [ ] to [ ] , then press ENTER.

The pull-down menu for entering time appears under the [ ] .

(Screen example for DVD VIDEO)



(Screen example for Audio CD)



### 3 Use the numeric buttons (0 to 10) to enter the desired time.

The specified time is displayed in the pull-down menu.

#### Hints

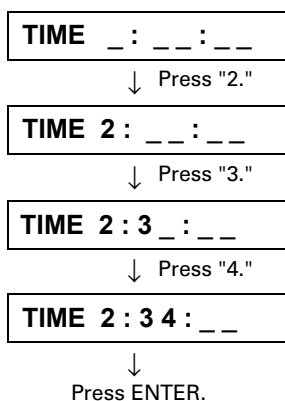
- "10" button works as "0" and "+10" button is not used with this function.
- You can specify the time in hour/minute/second format for DVD VIDEO discs, and in minute/second format for Audio CD and Video CD/SVCD discs.

### 4 Press ENTER.

The unit starts playback from the specified time.

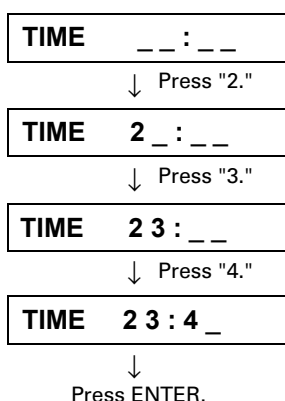
#### • Example (for DVD VIDEO)

To playback from 2(H):34(M):00(S)



#### • Example (for Audio CD/Video CD/SVCD)

To playback from 23(M):40(S)

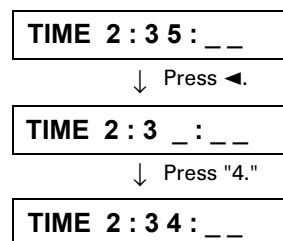


You do not have to press "0" to enter the trailing zeros (for the last two digits in the example above).

#### • To correct a mistake

Use ◀ repeatedly to move back to the digit where you entered a undesired numeral (the leftmost "-" digit), and reenter the correct time.

(Example : changing "2:35:\_" to "2:34:\_.")



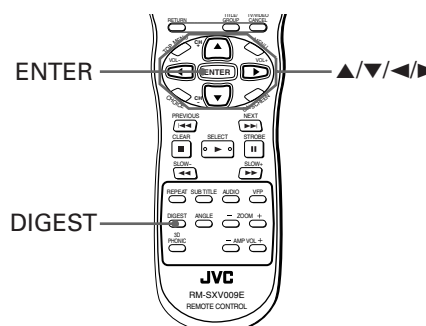
#### NOTES

- When ⓪ appears on the TV screen:  
The time you have selected is not contained on the disc, or the time search function does not work on the disc. Also note that the time search function does not work during Video CD/SVCD playback with the PBC function.
- To dismiss the menu bar:  
Press ON SCREEN.
- The time search function cannot be used during program playback.

## To locate a specific scene from the display [DIGEST]

Available : DVD VIDEO Video CD Super VCD

The unit can display the opening scene of each title or chapter on a DVD VIDEO or each track of a Video CD/SVCD. You can select a specific scene from those displayed on the TV screen.



- For DVD VIDEO: During playback or while stopped
- For Video CD/SVCD: In any condition except Video CD/SVCD playback with PBC


### 1 Press DIGEST.

Up to nine opening scenes are displayed.



Depending on the disc type and whether the disc is being played back or not, the contents shown on the TV screen differ.

Disc type	Unit status	What is displayed
DVD VIDEO	While stopped	The opening scene of each title
	During playback	The opening scene of each chapter in the current title
Video CD/ SVCD	While stopped or during playback	The opening scene of each track

2 Use ▲/▼/◀/▶ to move  to select the desired scene.

If there are more than 9 scenes, the digest screen will have more than one page. In this case, pressing ▶▶ advances to the next page, while pressing ◀◀ returns to the previous page.



Selected scene

 Hints

- When the lower right scene is selected, pressing ▶ advances to the next page if available. Similarly, when the upper left scene is selected, pressing ◀ returns to the previous page (if available).
- Depending on discs, it may take some time until all scenes of the current page appear on the TV screen. If you want to turn the page, you do not have to wait to press ◀◀ or ▶▶ until all scenes appear.

3 Press ENTER.

The unit starts playback from the selected scene.

**NOTE**

- With some discs, depending on the contents, it may take some time until all the scenes appear on the screen.

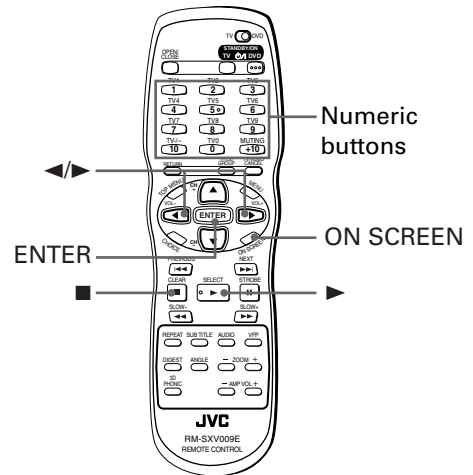
## Changing the playback order

You can play tracks on an Audio CD, Video CD or SVCD in a specific order or in random order.

### To playback in a specific order [Program play]

Available :   


By programming tracks, you can play up to 99 tracks in any order. You may program the same track more than once.



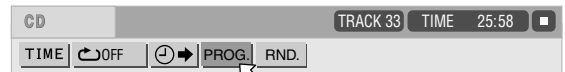
• While stopped

1 Press ON SCREEN twice.

The menu bar appears on the TV screen. (See page 36 for details about menu bar).

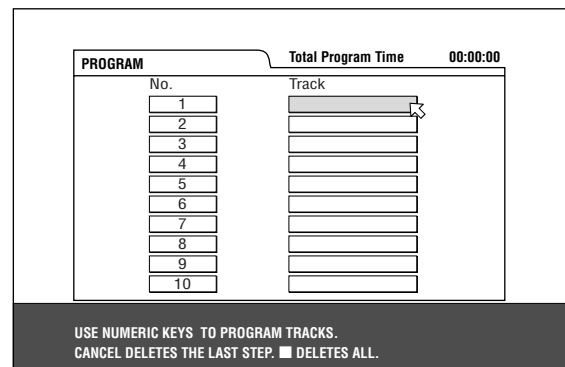
2 Use ◀/▶ to move  to **PROG.**.

(Screen example for Audio CD)



3 Press ENTER.

The program table appears instead of the menu bar. The PROGRAM indicator lights in the display window on the front panel.



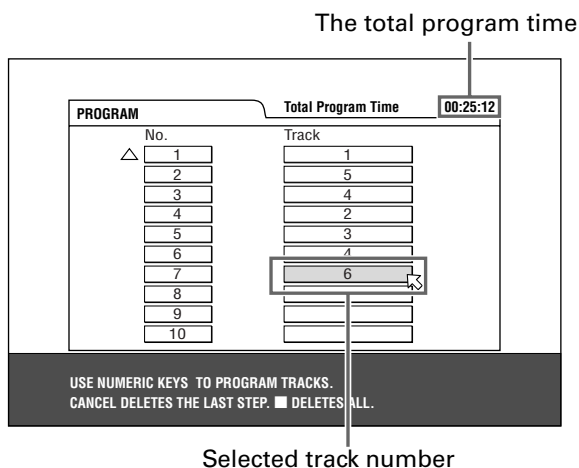
#### 4 Specify tracks in the desired order using the numeric buttons.

- To select a number between 1 and 10:  
Press the corresponding button for the number.
- To select a number higher than 10:  
Use the +10 button.

Examples:

- To select 13: +10 → 3
- To select 34: +10 → +10 → +10 → 4
- To select 40: +10 → +10 → +10 → 10

Up to 99 tracks can be programmed. You may select the same track more than once. The total program time is shown at the right top of the program table.



Selected track number

- **If you specify a wrong track**  
Use ▲/▼ to move to the wrong track, then press TV/VIDEO - CANCEL. The track is erased and the subsequent programmed tracks move up.
- **To clear the program while programming**  
Press ■.

#### 5 Press ► to start program playback.

With a Video CD/SVCD disc, the program table is automatically dismissed when the program playback starts. With an Audio CD disc, the program table remains on the TV screen during program playback. However, pressing the ON SCREEN button brings up the status bar. When all of the programmed tracks have finished playback, the unit stops and the program table appears again. Note that the program remains.

- **To check the program contents**  
During playback, press ■. Playback stops and the program table is shown. When the unit is playing back an Audio CD and the program table is not shown, you can bring up the table by carrying out steps 1 to 3. During Video CD/SVCD playback, you cannot see the program table during playback.
- **To quit program playback**  
Press ■. Note that the program remains.

- **To clear the program**  
While stopped and the program table is shown on the TV screen, press ■.  
All the programmed tracks are erased.
- **To exit the program mode**  
After clearing all programmed tracks, press ON SCREEN.  
The program table is dismissed and the status bar appears on the TV screen. The PROGRAM indicator in the display window disappears and the unit quits program playback mode.

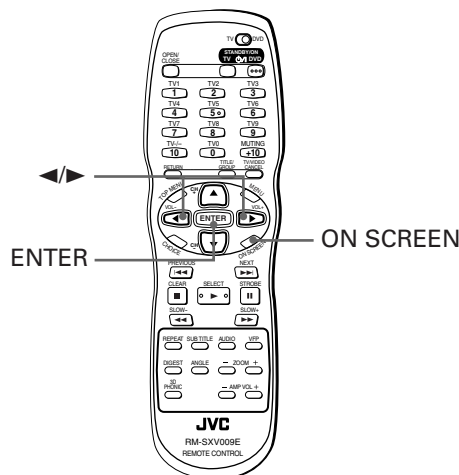
#### NOTES

- During program playback, you cannot edit the program contents.
- During program playback, pressing ► skips to the next selection of the program. Pressing ◀ returns to the beginning of the current selection.
- To dismiss the program table:  
Press ON SCREEN. The program table is dismissed and the status bar is shown.
- To dismiss the menu bar (and the status bar):  
Press ON SCREEN.

### To playback in random order [Random play]

Available :

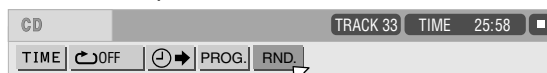
You can play tracks on a disc in random order by using the random function.



- While stopped
  - 1 Press ON SCREEN twice.  
The menu bar appears on the TV screen. (See page 36 for details about menu bar)

2 Use ◀/▶ to move to **RND.**

(Screen example for Audio CD)



### 3 Press ENTER.

The unit starts random playback.  
 With a Video CD/SVCD disc, the menu bar is automatically dismissed.  
 During random playback, the RANDOM indicator lights in the display window on the front panel.  
 After playing all tracks of the disc, the unit stops the disc and exits the random mode.

**Hints**

- The same track will not be played back more than once during random play.
- During random playback, if you bring up the menu bar and carry out steps 1 to 3 above, the unit cancels random playback mode and continues playback from the current selection in the recorded order.
- **To stop and quit random playback**  
 Press ■. The unit stops playback and exits the random playback mode.

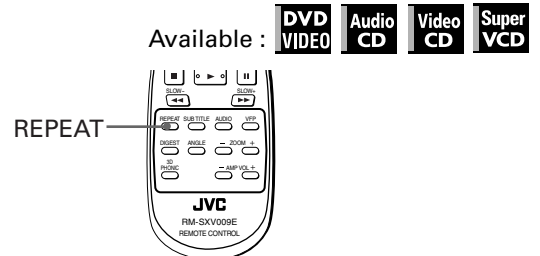
**NOTE**

- **To dismiss the menu bar:**  
 Press ON SCREEN.

## Repeat playback

You can repeat playback of the current title or chapter (for DVD VIDEO), or current or all tracks (for Audio CD/Video CD/SVCD).  
 You can also repeat playback of a desired part.

### To repeat the current selection or all tracks [Repeat playback]



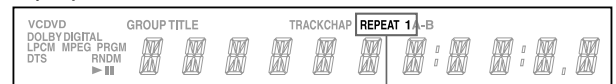
- For DVD VIDEO: During playback  
 For Audio CD/Video CD/SVCD: In any condition except Video CD/SVCD playback with PBC

### 1 Press REPEAT.

Each time you press REPEAT, the repeat mode cycles among All repeat, Repeat 1 and off.  
 The selected mode is reflected in icons displayed in the front panel display window, as shown below.  
 If you press REPEAT while stopped, you need to press ► to start repeat playback.

- REPEAT: Repeats the current title for DVD VIDEO or all tracks for Audio CD/Video CD/SVCD.
- REPEAT 1: Repeats the current chapter for DVD VIDEO or the current track for Audio CD/Video CD/SVCD.
- No indication: The repeat mode is off.

(Display window)



Repeat mode indicators

A window which indicates the current repeat mode will be displayed on the TV screen.  
 The mode indication on the window is same as the one on the menu bar (see pages 37 and 38).

(Repeat mode display window example)



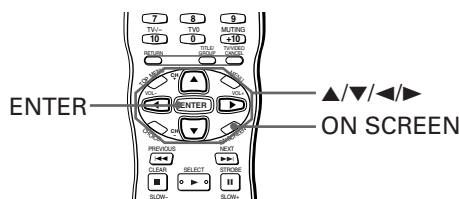
- **To stop repeat playback**  
 Press ■.  
 When a DVD VIDEO disc is set, the unit stops playback and quits the repeat mode.  
 When an Audio CD, Video CD or SVCD disc is set, the unit stops playback but does not quit the repeat mode.
- **To quit repeat playback**  
 Press REPEAT until the repeat mode indicator goes off in the display window.

**NOTES**

- You can also select the repeat mode via the menu bar. See pages 37 and 38.
- When the program playback mode is active with an Audio CD, Video CD or SVCD, the repeat mode changes in the same manner.  
Note that, however, in the "☺" mode the unit repeats all the programmed tracks, instead of all tracks on the disc.
- During playback in the title/chapter/track repeat mode, if you skip the title/chapter/track using ◀◀/▶▶, etc., the destination title/chapter/track is repeated.
- If ☹ appears when pressing REPEAT during DVD VIDEO playback.  
The disc content does not allow title or chapter repeat.
- Repeat playback function cannot be used during Video CD/SVCD playback with PBC function.

**To repeat a desired part [A-B repeat playback]**

Available : DVD VIDEO Audio CD Video CD Super VCD



- During playback except Video CD/SVCD playback with PBC

**1 Press ON SCREEN twice.**

The menu bar appears on the TV screen. (See page 36 for details about menu bar).

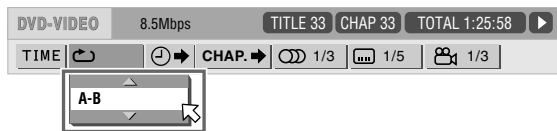
**2 Use ◀/▶ to move [A-B] to [☺], then press ENTER.**

The pull-down menu for repeat mode selection appears under the [☺].

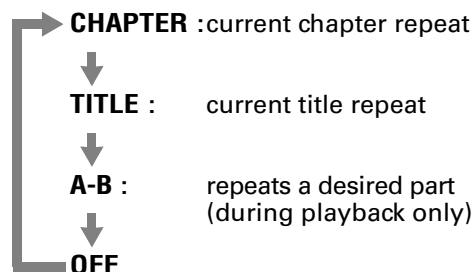
**3 Use ▲/▼ to select "A-B."**

Depending on the disc type and unit's status the repeat mode changes as follows:

- During DVD VIDEO playback

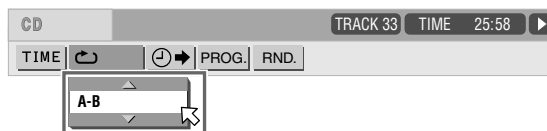


Selected repeat mode

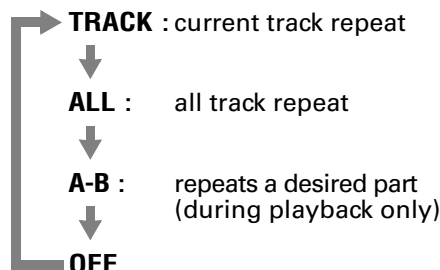


- Audio CD/Video CD/SVCD

(Screen example for Audio CD)



Selected repeat mode



**4 Press ENTER at the beginning of the part you want to repeat (point A).**

The pull-down menu disappears.

The repeat icon shows ☺ A- .

(Screen example for DVD VIDEO)



Repeat icon

**5 Press ENTER at the end of the part you want to repeat (point B).**

The repeat icon show ☺ A-B .

The unit locates "A" and starts repeat playback between "A" and "B."

- To quit A-B repeat playback

Press ENTER. The A-B repeat mode turns off, while the playback continues.

**Hints**

- Selecting "OFF" from the pull-down menu for repeat mode selection, or pressing ◀◀/▶▶ quits the A-B repeat mode and continues playback.
- You can also stop and quit A-B repeat mode by pressing ■.

**NOTES**

- The A and B points must be set in the same title/chapter/track.
- To dismiss the menu bar:  
Press ON SCREEN.
- If ☹ appears when pressing ENTER during DVD VIDEO playback  
The disc content does not allow you to repeat the selected part.

# Changing the language, sound and scene angle

With some DVD VIDEO discs, you can choose a desired subtitle language and/or audio language/sound, as well as a desired camera angle. Similarly, you can choose a desired audio channel (or channel combination) of a Video CD/SVCD disc, as well as a subtitle channel of an SVCD disc.

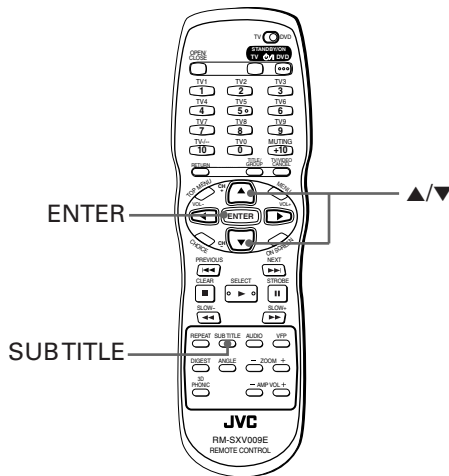
## To select the subtitle language [SUBTITLE]

Available : **DVD VIDEO** **Super VCD**

Some DVD VIDEO and SVCD discs for movies, guides, etc. contain more than one subtitle language. You can choose a desired one from them.



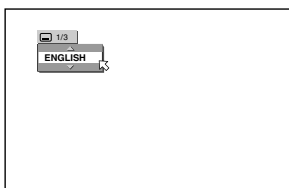
- At the beginning of the part where the subtitles are recorded, appears on the TV screen (except when the "ON SCREEN GUIDE" preference is set to "OFF"). See page 53 for details about "ON SCREEN GUIDE" preference.



- During DVD VIDEO/SVCD playback (except when the status bar is shown)

### 1 Press SUBTITLE.

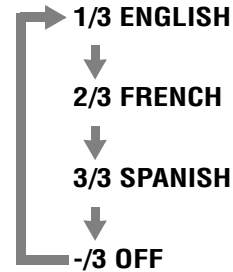
The Subtitle selection window appears on the TV screen.



- Use **▲/▼** or **SUBTITLE** to select the subtitle. Each time you press **▲/▼** or **SUBTITLE**, the subtitle language changes. See the following examples for subtitle selection.

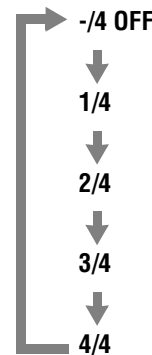
- For DVD VIDEO**

Pressing **▲/▼** or **SUBTITLE** cycles through the subtitles recorded on the disc. Example:



- For SVCD**

An SVCD disc can have up to four subtitles. Pressing **▲/▼** cycles through those channels as follows regardless of whether the subtitles are recorded or not.



- Press **ENTER**.

Subtitles are displayed in the selected language. The subtitle selection window is dismissed.

### NOTES

- For DVD VIDEO, the selected language may be abbreviated on the TV screen. See "Table of languages and their abbreviations" on page 49.
- The Subtitle selection window will automatically disappear if you do not change the subtitle for several seconds.
- When appears on the TV screen (for DVD VIDEO disc): You cannot select the subtitle or no subtitle is recorded.
- You can also select the subtitle via the menu bar. See pages 37 and 39.




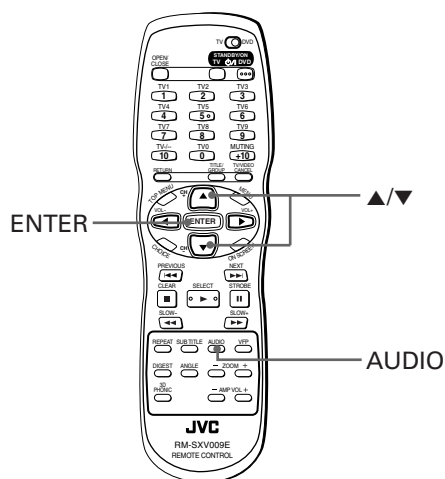
## To change the audio language or sound [AUDIO]

Available : **DVD VIDEO** **Video CD** **Super VCD**

The audio selection setting allows you to change the audio language of a movie, or to listen to karaoke with or without the vocal.

### Hints

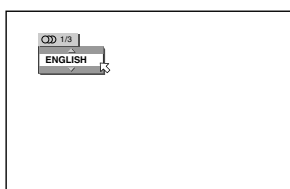
- At the beginning of the part where multiple audio tracks are recorded,  appears on the TV screen (except when the "ON SCREEN GUIDE" preference is set to "OFF"). See page 53 for details about "ON SCREEN GUIDE" preference.



- During playback (except when the status bar is shown)

### 1 Press AUDIO.

The audio selection window appears on the TV screen.



### 2 Use AUDIO or ▲/▼ to select the desired audio.

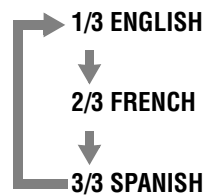
Each time you press ▲/▼ or AUDIO, the audio changes.

See the following examples for audio selection.

#### • For DVD VIDEO

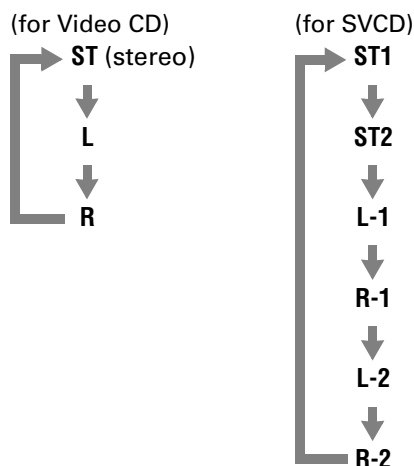
Each time you press ▲/▼ or AUDIO, the audio language changes.

Example:



#### • For Video CD/SVCD

Each time you press ▲/▼ or AUDIO, the playback audio changes as follows.




### 3 Press ENTER.


You can hear the selected audio.

The audio selection window is dismissed.

#### NOTES


- For DVD VIDEO, the selected language may be abbreviated on the TV screen. See "Table of languages and their abbreviations" on page 49.
- The Audio selection window will automatically disappear if you do not change the audio for several seconds.
- When  appears on the TV screen (for a DVD VIDEO disc):  
You cannot select the audio.
- If only one audio track is recorded, you cannot change the audio selection.
- You can also select the audio via the menu bar. See pages 37 and 39.

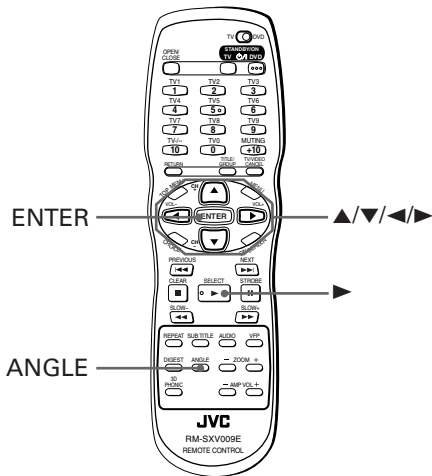
## To select a scene angle of DVD VIDEO [ANGLE]

Available : 

You can enjoy a variety of scene angles if the DVD VIDEO disc contains "multi-angle" parts, where multiple cameras were used to shoot the same scene from different angles.

### Hints

- At the beginning of a "multi-angle" part,  appears on the TV screen (except when the "ON SCREEN GUIDE" preference is set to "OFF"). See page 53 for details about "ON SCREEN GUIDE" preference.

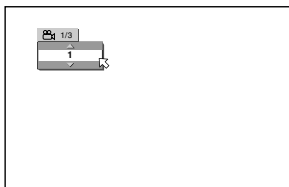


### From the Angle selection window

- During DVD VIDEO playback (except when the status bar is shown)

#### 1 Press ANGLE.

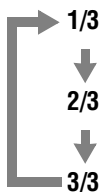
The Angle selection window appears on the TV screen.



#### 2 Use ANGLE or ▲/▼ to select the desired angle.

Each time you press ANGLE or ▲/▼, the angle changes.

Example:



#### 3 Press ENTER.

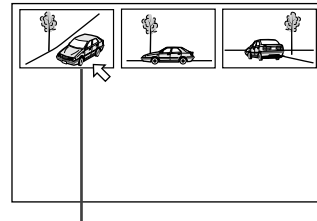
You can see the picture from the selected angle. The angle selection window is dismissed.

### From the angle list

- During DVD VIDEO playback

#### 1 Press and hold ANGLE for more than 1 second.

Up to nine camera angles recorded on a disc appear on the TV screen.




The selected camera angle

#### 2 Use ▲/▼/◀/▶ to select the desired angle.

#### 3 Press ENTER or ▶.

The unit starts playback using the selected angle on the full-sized screen.

### NOTES

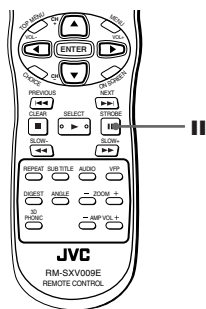
- The Angle selection window will automatically disappear if you do not change the angle for several seconds.
- When  appears on the TV screen in step 1: The current scene is not recorded from multiple angles.
- During the operation from the angle list display, audio is muted.
- You can also select the angle via the menu bar. See page 38.

## Special picture playback and picture/sound effect

You can view continuous still images, or zoom into or out of the picture. You can also adjust the picture characteristics, as well as simulate surround sound using a stereo system.

### To display continuous still pictures [STROBE]

Available : **DVD VIDEO** **Video CD** **Super VCD**



- During playback

**1** At the point where you want to begin viewing continuous still images, press **||**.

The unit pauses playback.

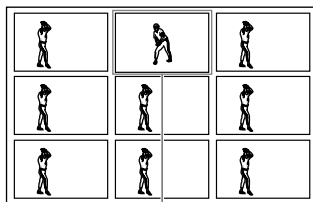
**2** Press and hold **||** for more than 1 second.

Nine copies of the same frame (still images) will appear on the TV screen.

You can advance these frames using the following step.

**3** Press **||** once.

The image in the middle of the top row shows the next frame of video after the one on the upper left.



Advanced frame

Each press of **||** advances the video by one frames. Pressing **▶** instead of **||** advances each frame at normal playback speed with a time delay over the whole nine pictures (while the sound is muted).

- To return to the normal screen

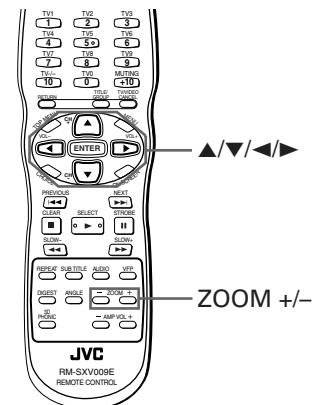
Press and hold **||** for more than 1 second.

#### NOTE

- If you press and hold **||** for more than 1 second during playback, nine still pictures also appear but they advance at normal playback speed (while the sound is muted).

### To zoom in or out pictures [ZOOM]

Available : **DVD VIDEO** **Video CD** **Super VCD**



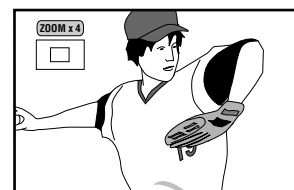
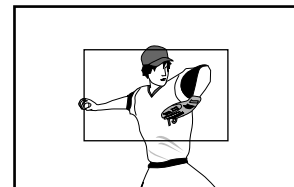
- During playback or while paused

**1** Press ZOOM + or -.

Pressing ZOOM + causes the unit to zoom in on the image, and pressing ZOOM - causes the unit to zoom out.

Each time you press ZOOM +, the magnification is doubled (up to  $\times 1024$ ).

Each time you press ZOOM -, the magnification is halved (down to  $\times 1/8$ ).

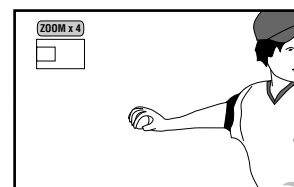


At the top left of the screen, the information for the current magnification appears for 5 seconds. While zoomed in, an indication of the zoomed image position also is displayed. The next step can be used to move the image position.

**2** Use **▲/▼/◀/▶** to move the zoomed position.

If no button pressed for 5 seconds, the information for the current magnification disappears.

To display the information, press ZOOM +/- or **▲/▼/◀/▶** again.



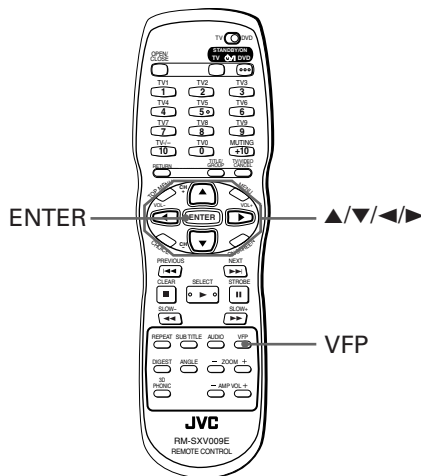
**NOTES**

- To return to normal playback.  
Press ENTER.
- While zoomed, the picture may look coarse.

**To adjust the picture character [VFP]**

Available : **DVD VIDEO** **Video CD** **Super VCD**

The VFP (Video Fine Processor) function allows you to adjust the picture character according to the type of programming, picture tone or personal preferences.



● During playback

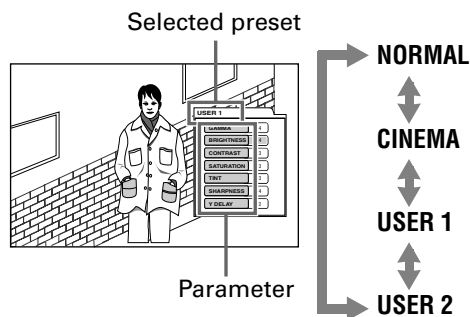
**1 Press VFP.**

The VFP mode selection window appears on the TV screen.

**2 Use ◀/▶ to select the desired preset.**

Each time you press the button, the VFP mode changes as follows.

Set the video type most suitable to the current program or the room conditions.



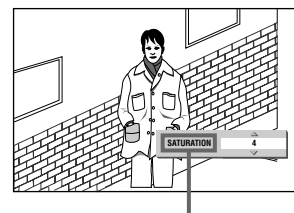
"NORMAL" is suitable for watching TV in a general room. "CINEMA" is suitable for watching a movie software in a room with suppressed light. They are factory presets and you cannot change parameters for them. If you select "USER 1" or "USER 2," you can adjust parameters that affect the picture character and store the settings as a user preset. See the next step.

**3 To define a user setting, select a parameter to be edited using ▲/▼ from the following.**

- **GAMMA**  
Controls the brightness of a shaded portion without changing the brightness of the entire picture.  
This control is optimum when you adjust the pictures of software which generates subdued black in a bright room.  
The setting range is +4 to -4.
- **BRIGHTNESS**  
Controls the brightness of the screen.  
The setting range is +16 to -16.
- **CONTRAST**  
Controls the contrast of the screen.  
The setting range is +16 to -16.
- **SATURATION**  
Controls the color depth of the screen.  
The setting range is +16 to -16.
- **TINT**  
Controls the tint of the screen.  
Use the appearance of a natural skin tone as a guideline.  
The setting range is +16 to -16.
- **SHARPNESS**  
Controls the sharpness of the screen.  
The setting range is +3 to 0.
- **Y DELAY**  
Controls the color gap of the screen.  
The setting range is +2 to -2.

**4 Press ENTER.**

A window for setting parameters appears instead of the VFP mode selection window.



**5 Adjust the level of the parameter using ▲/▼.**

The higher value enhances the effect.

**6 Press ENTER.**

The parameter is set and the VFP mode selection window appears again. Repeat steps 3 to 6 if you want to set other parameters.

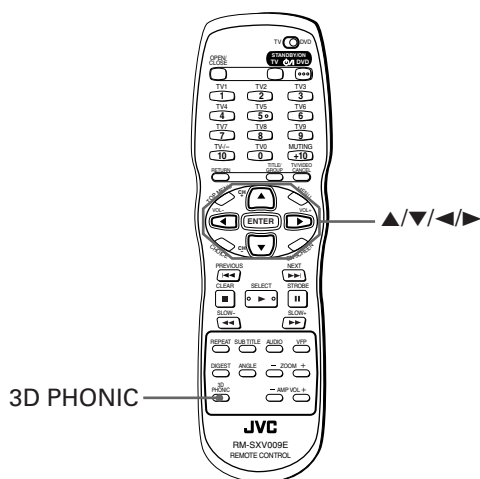
**NOTES**

- The number of setting steps varies for different parameters.
- To dismiss the VFP mode selection window:  
Press VFP.
- The window for VFP mode selection and parameter setting disappears if no operation is made for about 10 seconds.

**To simulate surround sound [3D PHONIC]**

Available : **DVD VIDEO**

Using the 3D PHONIC function, you can get a simulated surround effect from your stereo system.



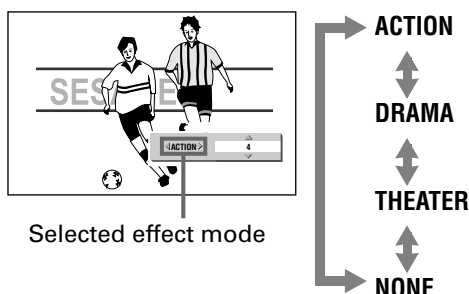
- During playback

**1 Press 3D PHONIC.**

The 3D PHONIC window appears on the TV screen.

**2 Select the desired mode by using ◀/▶.**

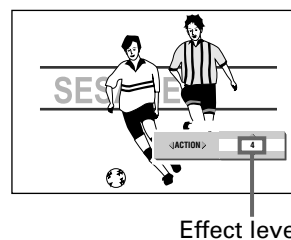
Each time you press the button, the 3D PHONIC mode changes as follows:



- **ACTION**  
Suitable for action movies and sports programs in which the sound source moves.
- **DRAMA**  
Natural and warm sound. You can enjoy movies in a relaxed mood.
- **THEATER**  
You can enjoy sound effects like in a major theater in Hollywood.

**3 Press ▲/▼ to adjust the effect level.**

You can set the effect level from "1" to "5."  
The higher value enhances the effect.



**NOTES**

- To dismiss the 3D PHONIC window:  
Press 3D PHONIC.
- The 3D PHONIC window disappears if no operation is made for about 10 seconds.
- The 3D PHONIC function works correctly only when playing back a DVD VIDEO disc recorded with Dolby Digital. Pressing the 3D PHONIC button will have no effect with other content.
- When playing back a DVD VIDEO disc recorded with Dolby Digital that does not contain the rear signal, you can change the 3D PHONIC setting, but you will not be able to achieve a correct 3D effect.
- The 3D PHONIC function does not affect the Dolby Digital bitstream signal from the DIGITAL OUT jack.
- When the 3D PHONIC function is active, the "ANALOG DOWN MIX" and "D. RANGE COMPRESSION" settings in the "AUDIO" setting display are disabled.

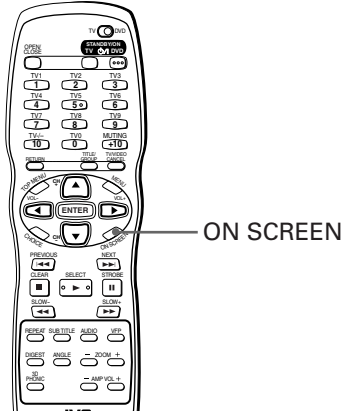
Advanced operations

# Menu bar functions

This section describes the functions you can perform via the menu bar.

The available menu bar functions differ depending on the disc type.

## To bring up the menu bar



- When a disc is inserted

### 1 Press ON SCREEN.

A status bar for the type of disc loaded will appear on the TV screen. See page 21 about the status bar.

(Example of the status bar for DVD VIDEO)



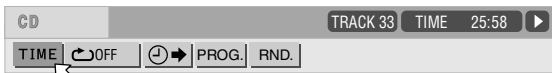
### 2 Press ON SCREEN again.

A menu bar for the type of disc loaded will appear together with the status bar. The menu bar includes some icons which indicate their functions.

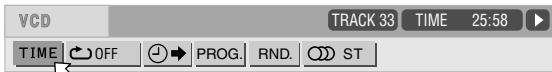
(for DVD VIDEO)



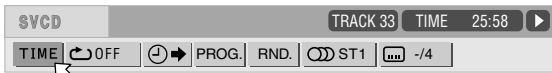
(for Audio CD)



(for Video CD)



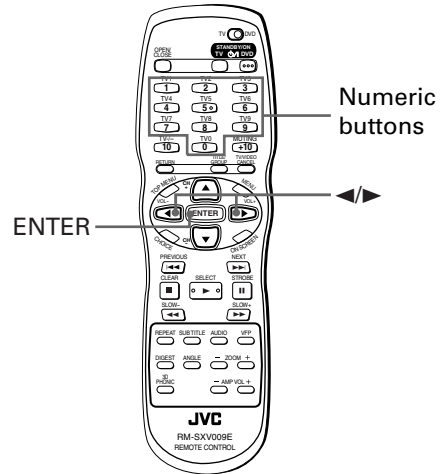
(for SVCD)



#### NOTE

- To dismiss the menu bar (and status bar): Press ON SCREEN.

# Basic operation procedure



1 Use to select the icon you want to work with.

The selected icon is pointed to by .

2 Press ENTER.

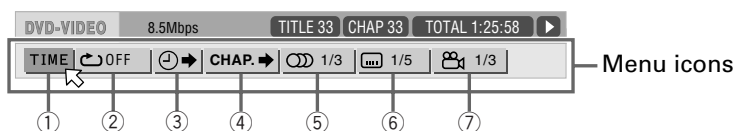
With many icons, an appropriate pull-down window appears, however, there are some exceptions.

- See the following pages for details about each function.
- Note that some functions are not available during playback. (You cannot move to the associated icon when it is not available.)

#### NOTES


- When appears on the TV screen: You cannot use the selected function because of disc contents.
- A mark or text on the menu icon for the function or mode currently selected is shown in blue.

## Menu bar functions for DVD VIDEO

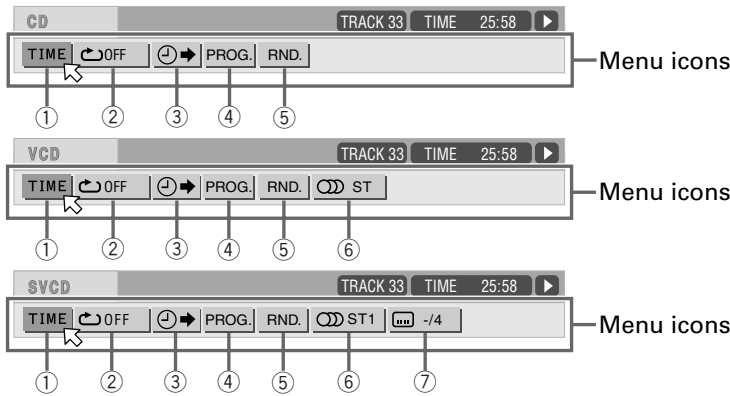


The following table shows the menu bar functions available for DVD VIDEO. Note that, in the description of the operation column, we assume the associated icon is selected.

Selected Icon	Operation	Note
<p>① <b>TIME</b></p> <p><b>Time mode selection</b> (During playback only)</p> <p>Selects the time mode shown in the display window on the front panel and in the status bar.</p>	<p>Press ENTER to select the time mode from the following.</p> <p><b>TOTAL</b> ⇒ <b>T.REM</b> ⇒ <b>TIME</b> ⇒ <b>REM</b> ⇒ <b>Return to initial</b></p> <ul style="list-style-type: none"> <li>• <b>TOTAL:</b> Current title elapsed time</li> <li>• <b>T.REM:</b> Current title remaining time</li> <li>• <b>TIME:</b> Current chapter elapsed time</li> <li>• <b>REM:</b> Current chapter remaining time</li> </ul>	<ul style="list-style-type: none"> <li>• If a disc has only one title and one chapter, "TOTAL" and "TIME" show the same value.</li> </ul>
<p>② <b>Repeat mode</b> (During playback only)</p> <p>Selects the repeat mode.</p>	<ol style="list-style-type: none"> <li>1 Press ENTER to open the pull-down window.</li> <li>2 Use ▲/▼ to select the repeat mode from the following. <b>CHAPTER</b> ↔ <b>TITLE</b> ↔ <b>A-B</b> ↔ <b>OFF</b> <ul style="list-style-type: none"> <li>• <b>CHAPTER:</b> Current chapter repeat</li> <li>• <b>TITLE:</b> Current title repeat</li> <li>• <b>A-B:</b> Repeats a desired part (A-B repeat)</li> </ul> </li> <li>3 Press ENTER to make the selected repeat function active. (See pages 28 and 29 for details about repeat function.)</li> </ol>	<ul style="list-style-type: none"> <li>• If you select "OFF" during repeat playback, the unit continues playback without repeating.</li> <li>• For information on subsequent operations for A-B repeat, see page 29.</li> </ul>
<p>③ <b>Time search</b></p> <p>Specifies a time from the beginning of the current title as the point from which to begin playback.</p>	<ol style="list-style-type: none"> <li>1 Press ENTER to open the pull-down window.</li> <li>2 Use numeric buttons to enter a desired time.</li> <li>3 Press ENTER to begin playback from the specified time. (See page 24 for details about the time search.)</li> </ol>	
<p>④ <b>CHAP.</b></p> <p><b>Chapter search</b> (During playback only)</p> <p>Specifies a desired chapter to be played back from.</p>	<ol style="list-style-type: none"> <li>1 Press ENTER to open the pull-down window.</li> <li>2 Use numeric buttons to enter a desired chapter number. <ul style="list-style-type: none"> <li>• For example, to enter "12," press "1" then "2."</li> </ul> </li> <li>3 Press ENTER to begin playback from the specified chapter. <ul style="list-style-type: none"> <li>• <b>When the chapter number is incorrect:</b> Overwrite the incorrect number with the correct number.</li> </ul> </li> </ol>	<ul style="list-style-type: none"> <li>• The "10" and "+10" buttons are not used in this function.</li> <li>• You can also locate a desired chapter directly by specifying the chapter number using the numeric buttons during playback. See page 20.</li> </ul>
<p>⑤ <b>Audio selection</b> (During playback only)</p> <p>Selects the audio language or sound track.</p>	<ol style="list-style-type: none"> <li>1 Press ENTER to open the pull-down window.</li> <li>2 Use ▲/▼ to select a desired audio language or sound track. <b>Example:</b> <b>1/3 ENGLISH</b> ↔ <b>2/3 FRENCH</b> ↔ <b>3/3 SPANISH</b></li> <li>3 Press ENTER to begin playback with the selected audio. (See page 31 for details about audio selection.)</li> </ol>	<ul style="list-style-type: none"> <li>• For DVD VIDEO, the selected language may be abbreviated on the TV screen. See "Table of languages and their abbreviations" on page 49.</li> </ul>
<p>⑥ <b>Subtitle selection</b> (During playback only)</p> <p>Selects the subtitle language.</p>	<ol style="list-style-type: none"> <li>1 Press ENTER to open the pull-down window.</li> <li>2 Use ▲/▼ to select a desired subtitle language. <b>Example:</b> <b>1/3 ENGLISH</b> ↔ <b>2/3 FRENCH</b> ↔ <b>3/3 SPANISH</b> ↔ <b>-3 OFF</b></li> <li>3 Press ENTER to begin playback with the selected subtitle. (See page 30 for details about subtitle selection.)</li> </ol>	





Selected Icon	Operation	Note
<p>⑦ </p> <p><b>Angle selection</b> (during playback only)</p> <p>Selects a desired scene angle in a multi-angle part.</p>	<p>1 Press ENTER to open the pull-down window.</p> <p>2 Use ▲/▼ to select a scene angle.</p> <p><b>Example:</b> 1/3 ↔ 2/3 ↔ 3/3</p> <p>3 Press ENTER to begin playback with the selected scene angle. (See page 32 for details about angle selection).</p>	

## Menu bar functions for Audio CD/Video CD/SVCD






The following table shows the menu bar functions available for Audio CD/Video CD/SVCD.

Note that, in the description of the operation column, we assume the associated icon is selected.

Selected Icon	Operation	Note
<p>① </p> <p><b>Time mode selection</b></p> <p>Selects the time mode shown in the display window on the front panel and in the status bar.</p>	<p>Press ENTER to select the time mode among the followings.</p> <p><b>TIME</b> → <b>REM</b> → <b>TOTAL</b> → <b>T.REM</b> → <b>Return to initial</b></p> <ul style="list-style-type: none"> <li>• <b>TIME:</b> Current track elapsed time</li> <li>• <b>REM:</b> Current track remaining time</li> <li>• <b>TOTAL:</b> Disc elapsed time</li> <li>• <b>T.REM:</b> Disc remaining time</li> </ul>	<ul style="list-style-type: none"> <li>• When you have selected "REM" and the disc is stopped, you can change the track by pressing  ◀◀ or ▶▶ .</li> <li>• While the disc is stopped, "REM" shows the total time of the current track, and "T.REM" shows the total time of the disc.</li> </ul>
<p>② </p> <p><b>Repeat mode</b></p> <p>Selects the repeat mode.</p>	<p>1 Press ENTER to open the pull-down window.</p> <p>2 Use ▲/▼ to select the repeat mode from the following.</p> <p><b>OFF</b> ↔ <b>TRACK</b> ↔ <b>ALL</b> ↔ <b>A-B</b> ↔ <b>OFF</b></p> <ul style="list-style-type: none"> <li>• <b>TRACK:</b> Current track repeat</li> <li>• <b>ALL:</b> All track repeat</li> <li>• <b>A-B:</b> Repeats a desired part (A-B repeat)</li> </ul> <p>3 Press ENTER to make the selected repeat function active. (See pages 28 and 29 for details about repeat function.)</p>	<ul style="list-style-type: none"> <li>• If you select "OFF" during repeat playback, the unit continues playback without repeating.</li> <li>• For information on subsequent operations for A-B repeat, see page 29.</li> </ul>
<p>③ </p> <p><b>Time search</b> (Except during Video CD/SVCD playback with PBC)</p> <p>Specifies a time from the beginning of the current title as the point from which to begin playback.</p>	<p>1 Press ENTER to open the pull-down window.</p> <p>2 Use numeric buttons to enter a desired time.</p> <p>3 Press ENTER to begin playback from the specified time. (See page 24 for details about the time search.)</p>	<ul style="list-style-type: none"> <li>• This function cannot be used during program playback.</li> </ul>
<p>④ </p> <p><b>Program</b> (While stopped only)</p> <p>Specifies the playback order of tracks.</p>	<p>1 Press ENTER to bring up the program table.</p> <p>2 Specify tracks in the desired order using the numeric buttons.</p> <p>3 Press ▶ to start program playback. (See page 26 for details about the program.)</p>	



Selected Icon	Operation	Note
⑤  <b>Random</b> (While stopped only) Activates random playback.	1 Press ENTER to activate random playback. (See page 27 for details about random.)	<hr/>
⑥  <b>Audio selection</b> (During Video CD/SVCD playback only) Selects the audio channel(s).	1 Press ENTER to open the pull-down window. 2 Use ▲/▼ to select a desired audio channel(s). 3 Press ENTER to playback with the selected audio channel(s). (See page 31 for details about audio selection.)	<hr/>
⑦  <b>Subtitle selection</b> (During SVCD playback only) Selects the subtitle.	1 Press ENTER to open the pull-down window. 2 Use ▲/▼ to select a desired subtitle. 3 Press ENTER to begin playback with the selected subtitle. (See page 30 for details about subtitle selection.)	<hr/>

# MP3 disc playback

The unit can play back MP3 files on a personally recorded CD-R/RW disc or commercial CD. We refer to a disc that contains MP3 file as an "MP3 disc" in this manual.

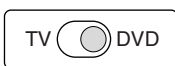
Though functions available with MP3 discs are limited, operations for the available functions are similar to those for Audio CD discs.

Note that if a disc contains both of MP3 and JPEG files, you can only play back files of the type selected by the MP3/JPEG setting in the PICTURE preference display (see page 51).

## What is MP3?

"MP3" stands for "MPEG Audio Layer-3," and is a part of the MPEG standard. It can store high quality stereo audio using very little space by only saving the audible sounds and discarding the sounds your ears won't pick up. A CD can store up to around 10 hours of MP3 audio, which is nearly 10 times as much as an Audio CD.

### NOTE

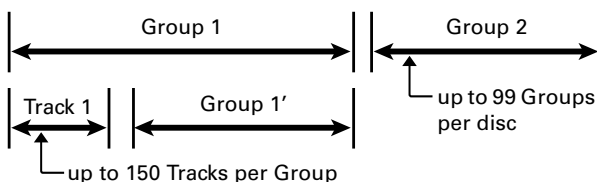


Make sure that the TV - DVD switch on the remote control unit is set to "DVD" when using the ▲/▼/◀/▶ and numeric buttons for controlling the unit.

## About MP3 discs

On an MP3 disc, each song is recorded as a file. Files are sometimes grouped into folders by artists, album, category, etc. Folders can exist within other folders, creating hierarchical layers of folders. If you are familiar with personal computers, the hierarchical file and folder structure of an MP3 disc will be familiar to you as well. This unit simplifies the hierarchical structure of a disc and manages files and folders using "Tracks" and "Groups," in the following manner.

- Each file is regarded as a Track.
- A folder which has one or more files (Tracks) is regarded as a Group.
- A folder which does not directly contain any files is ignored.
- Files which do not belong to any folder are grouped into "Group 1."
- The unit recognizes up to 150 Tracks per Group, and up to 99 Groups per disc. It ignores those exceeding the maximum numbers and cannot play them back. If there are files other than MP3 files, they also count against the 150-file total.



## NOTES for making your own MP3 disc using a CD-R/CD-RW disc:

- Select "ISO 9660" as the disc format.
- Finalize the disc after completing recording.
- We recommend you record your material at a 44.1 kHz sampling rate, using the 128 kbps data transfer rate.

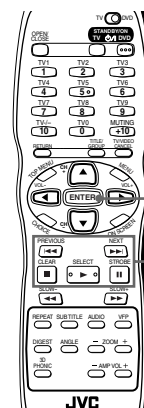
### NOTES

- The unit does not support "packet writing" discs. Some tracks on an MP3 disc are skipped and may not be played back normally because of the disc configuration or characteristics determined by the writing (encoding) software and hardware used for recording. Such symptoms may occur regardless of whether using a disc you recorded or using a commercially available disc. The unit does not support the ID3 tag.
- If the disc is recorded with multiple sessions, the unit supports up to five sessions.
- Some discs may not play due to disc characteristics or recording conditions.
- Programmed and random playback functions do not work with MP3 discs.
- The unit only can play back Tracks with the following file extensions; ".MP3," ".Mp3," ".mp3" and ".mP3."
- Time required for reading the disc contents may vary for different discs, depending on the numbers of Groups (folders) and Tracks (files) recorded, etc.
- While an MP3 disc is loaded, you cannot bring up any preference display. (See page 48.)

## Operations

### Basic operations

Available : **MP3**



Basic control buttons

The following table shows the basic functions of the basic control buttons.

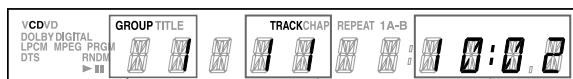
Button	Functions
	Starts playback while stopped.
	Starts playback while stopped or paused.
	Stops playback.
	Pauses playback.
	Skips back or forward a Track in the Group* during playback. Selects the previous or next Track in the Group* while stopped.

\*You can skip a Track across a Group.

- If you press ► during playback, or press ■ to stop playback followed by ►, the unit starts playback from the beginning of the current track.
- The ▲/▼ buttons work the same as the ◀◀/▶▶ buttons.

**NOTES**

- The current Group and Track numbers are shown on the display window in the following manner.



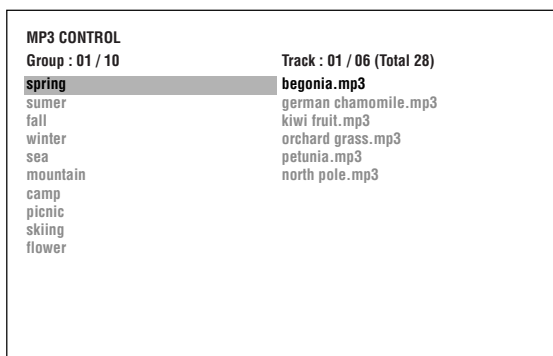
Current Group number      Current Track number      Current track elapsed time

- You cannot advance or reverse playback of an MP3 disc rapidly.
- You cannot see any other time information but the current track elapsed time.

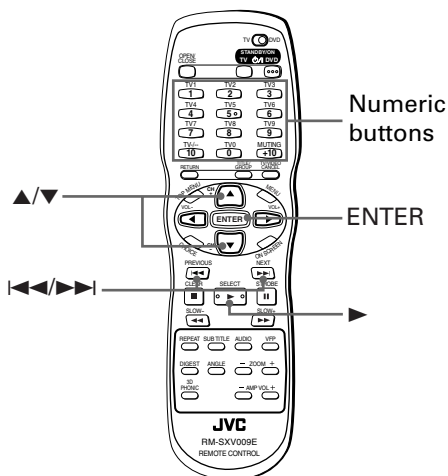
## Selecting the desired Group and Track

Available : **MP3**

When loading an MP3 disc, after the disc contents are read, the MP3 CONTROL display automatically appears on the TV screen.



You can specify the desired Group/Track from the display using the following procedure.



- When the MP3 CONTROL display is shown.

**1** Make sure that the black (cursor) bar is in the left (Group) column.

If it is in the right column, press ◀ to move it to the left column.

**2** Move the bar to a desired Group using ▲/▼.

On the right column, Tracks in the selected Group are shown.

When selecting a Group, Track 1 is initially selected (highlighted).

**3** Select a desired Track using ◀◀/▶▶, then press ENTER or ▶.

or

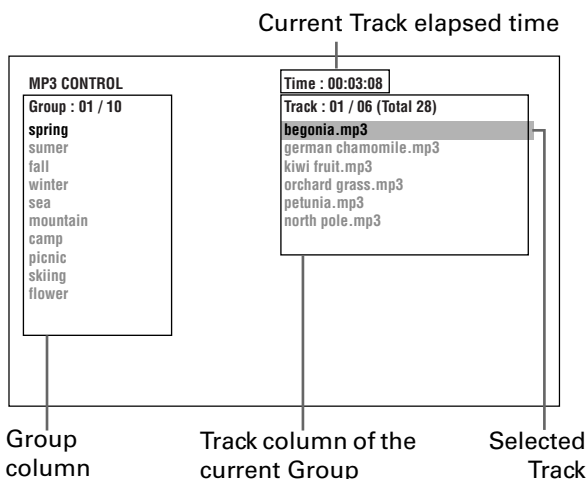
Use the numeric buttons to directly specify a desired Track number.

- To select a number between 1 and 10: Press the corresponding button for the number.
- To select a number higher than 10: Use the +10 button.

Examples:

- To select 13: +10 → 3
- To select 34: +10 → +10 → +10 → 4
- To select 40: +10 → +10 → +10 → 10

The unit starts playback from the selected Track. In the MP3 CONTROL display and the display window on the front panel, you can see the current Group and Track numbers, as well as Track elapsed time.



**Hints**

- You can also select a desired Track by pressing ▶ to move the black bar to the right (Track) column then using ▲/▼.

**NOTES**

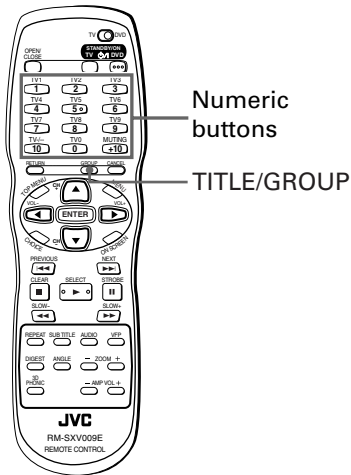
- If a MP3 file name includes any 2-byte character, the unit may not show the file name correctly.
- Only MP3 files are shown on the MP3 CONTROL display.
- The order of Groups/Tracks shown in the MP3 CONTROL display may differ from the order shown on your personal computer when you set the disc on your computer.

MP3 disc playback

## Direct selection

Available : **MP3**

You can select a desired Group directly by specifying the Group number.

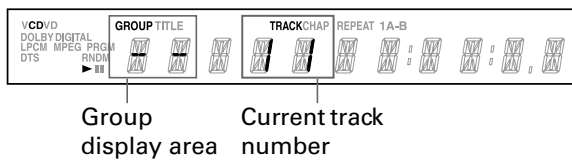


- During playback or while stopped

### 1 Press TITLE/GROUP.

"--" is shown in the Group display area of the display window.

(Front panel display window example)



### 2 Use the numeric buttons to specify a desired Group number.

- To select a number between 1 and 10: Press the corresponding button for the number.
- To select a number higher than 10: Use the +10 button.

Examples:

- To select 13: +10 → 3
- To select 34: +10 → +10 → +10 → 4
- To select 40: +10 → +10 → +10 → 10

Specify the Group number within several seconds after pressing TITLE/GROUP (i.e. while the display window shows "--" for the Group number, instead of the current Group number).

The unit starts playback from Track 1 of the selected Group.

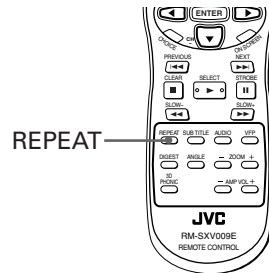
### 3 Use the numeric buttons to specify a desired Track number.

The unit starts playback from the specified Track. You can also use ◀◀/▶▶ or ▲/▼ to specify a track, instead of the numeric buttons.

## Repeat playback

Available : **MP3**

You can repeat playback of the current Track, current Group or all MP3 files on the disc.



- During playback or while stopped

### 1 Press REPEAT.

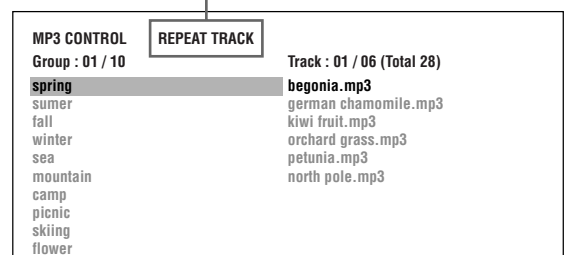
Each time you press REPEAT, the repeat mode changes as follows. You can see the current mode via the display window as well as the MP3 CONTROL display.

If you press REPEAT while stopped, you need to press ENTER or ▶ to start repeat playback.

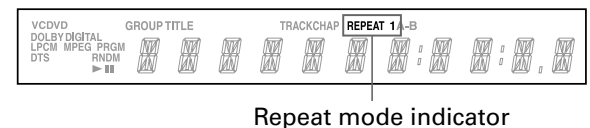
MP3 CONTROL display	Display Window	Function
REPEAT TRACK	REPEAT 1	Repeats the current Track.
REPEAT GROUP	REPEAT	Repeats all Tracks in the current Group.
REPEAT ALL	REPEAT	Repeats all Tracks on the disc.
No indication		The repeat mode is off.

(TV screen)

Selected repeat mode



(Display window)



- **To stop repeat playback**  
Press ■. Note that the repeat mode remains active.

- **To quit repeat playback**  
During playback, press REPEAT until no repeat icon is shown on the display window. While stopped, press REPEAT until repeat mode indication on the MP3 CONTROL display goes off.

# JPEG disc playback

The unit can play back JPEG files on a personally recorded CD-R/RW disc. We refer to a disc that contains JPEG files as a "JPEG disc" in this manual.

Note that if a disc contains both of MP3 and JPEG files, you can only play back files of the type selected by the MP3/JPEG setting in the PICTURE preference display (see page 51).

## What is JPEG?

"JPEG" is an abbreviation for the Joint Photographic Experts Group. "JPEG" is used to refer to an image file format that utilizes a certain compression technique.

There are three sub-types of the JPEG format as follows.

- baseline JPEG: used for digital cameras, the web, etc.
- progressive JPEG: used for the web
- lossless JPEG: an old type, rarely used now

The unit supports only the baseline JPEG format; Therefore, it cannot display pictures saved in the progressive or lossless formats. If a JPEG disc contains JPEG files of non-baseline type, the unit recognizes those files as JPEG files, the JPEG CONTROL display and the display window shows the information of the contents (filename, file number, etc.), but you cannot show the still pictures of those files (the TV screen appears only in black).

## NOTE

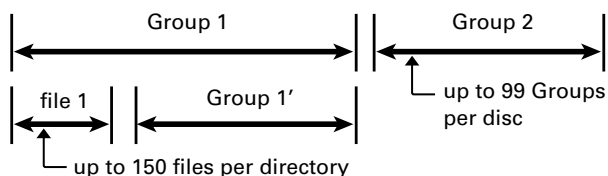


Make sure that the TV - DVD switch on the remote control unit is set to "DVD" when using the ▲/▼/◀/▶, numeric buttons for controlling the unit.

## About JPEG discs

On a JPEG disc, each picture is recorded as a file. Files are sometimes grouped into folders by category, etc. Folders can exist within other folders, creating hierarchical layers of folders. If you are familiar with personal computers, the hierarchical file and folder structure of a JPEG disc will be familiar to you as well. This unit simplifies the hierarchical structure of a disc and manages folders using "Groups," in the following manner.

- A folder which has one or more files is regarded as a Group.
- A folder which does not directly contain any files is ignored.
- Files which do not belong to any folder are grouped into "Group 1."
- The unit recognizes up to 150 files per Group, and up to 99 Groups per disc. It ignores those exceeding the maximum numbers and cannot display them. If there are files other than JPEG files, they also count against the 150-file total.



## NOTES for making your own JPEG disc using a CD-R/CD-RW disc:

- Select "ISO 9660" as the disc format.
- Finalize the disc after completing recording.
- We recommend you record your material at a 640 x 480 pixel resolution.
- This unit supports only the baseline JPEG format. Therefore, it cannot display pictures saved in the progressive or lossless formats. If a JPEG disc contains JPEG files of non-baseline type, the unit recognizes those files as JPEG files. the JPEG CONTROL display and the display window show the information of the contents (filename, file number, etc.), but you cannot show the still pictures of those files (the TV screen appears only in black).

## NOTES

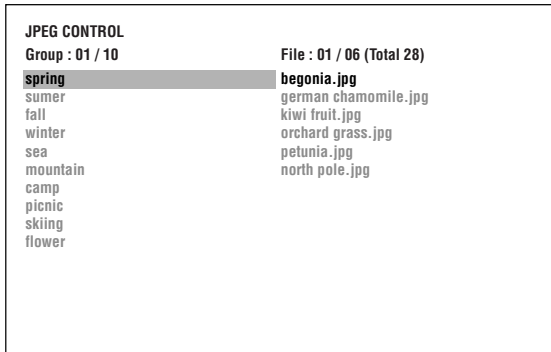
- The unit does not support "packet writing" discs.
- If the disc is recorded with multiple sessions, the unit supports up to five sessions.
- The unit may not be able to read some discs, or may take a long time to display a picture on the disc, due to disc characteristics or recording conditions.
- Programmed and random playback functions do not work with JPEG discs.
- The screen saver function will be activated if the same picture is displayed for more than 5 minutes except during slide show playback (see page 45).
- The unit only can play back files with the following file extensions; ".jpg," ".jpeg," ".JPG," ".JPEG" and any other combination of upper case and lower case letters (such as ".Jpg").
- If a JPEG file name includes any 2-byte character, the unit may not show the file name correctly.
- If a picture has been saved at greater than 640 x 480 pixel resolution, it may take some time to display the picture.
- The unit will not accept any commands (stopping playback, zooming into or out of an image, etc.) while in the process of displaying a picture.
- The time required to read the disc contents may vary for different discs, depending on the numbers of Groups (folders) and files recorded, etc.
- If you attempt to display a non-baseline JPEG image: The unit will not be able to display the picture (the TV screen will be black). Other operations (stopping display, selecting a file, etc.) will be possible, but may take a long time.
- While a JPEG disc is loaded, you cannot bring up any preference display (see page 48).
- This unit does not supports pixel side picture of more than 2400 pixels. Make sure that the pixel size is the picture of 2400 pixels or less.

# Basic operations

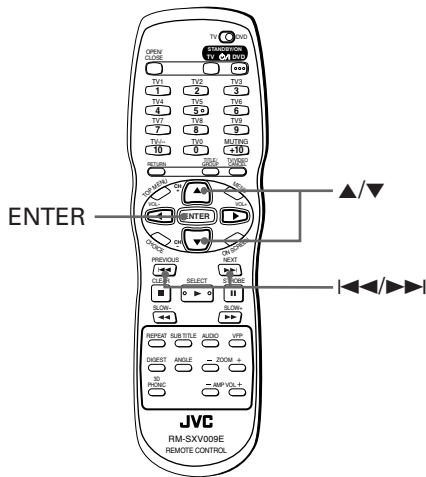
## To see a desired picture

Available : **JPEG**

When loading a JPEG disc, after the disc contents are read, the JPEG CONTROL display automatically appears on the TV screen.



You can select a desired file for playback via this display.



• When the JPEG CONTROL display is shown

**1** Make sure that the black (cursor) bar is in the left (Group) column.

If it is in the right column, press ◀ to move it to the left column.

**2** Move the bar to a desired Group using ▲/▼.

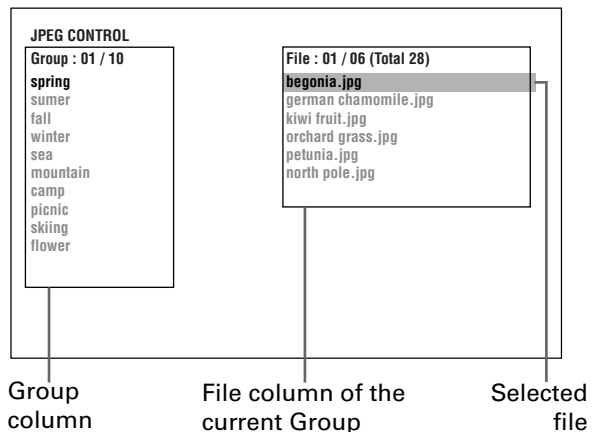
On the right column, files in the selected Group are shown.

When selecting a Group, file 1 is initially selected (highlighted).

**3** Select a desired file using ◀◀/▶▶.

**4** Press ENTER.

The selected file (still picture) is shown on the TV. In the display window, you can see the current Group and file numbers.

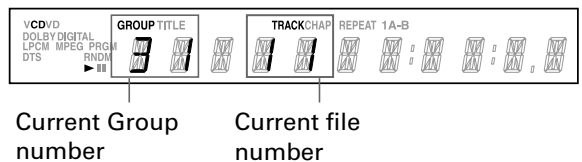


### Hints

- You can also select a desired file by pressing ▶ to move the black bar to the right (file) column then using ▲/▼.
- To return the black bar to the Group column, press ◀.
- **To display another picture:**  
Use ◀◀/▶▶ or ▲/▼ to select the desired picture. You can select a picture in another Group.
- **To dismiss the picture:**  
Press ■ or MENU. The TV screen returns to showing the JPEG CONTROL display.

### NOTES

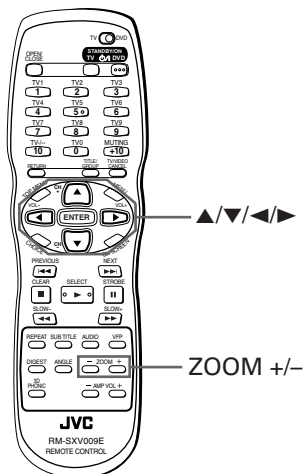
- The current Group and file number are also shown on the display window in the following manner.



- Only JPEG files are shown on the display window.

## To zoom in or out the picture [ZOOM]

Available : **JPEG**



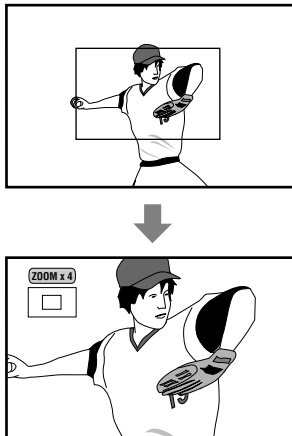
- While a JPEG image is displayed on the TV screen

### 1 Press ZOOM + or -.

Pressing ZOOM + causes the unit to zoom in on the image, and pressing ZOOM - causes the unit to zoom out.

Each time you press ZOOM +, the magnification is doubled (up to  $\times 1024$ ).

Each time you press ZOOM -, the magnification is halved (down to  $\times 1/8$ ).

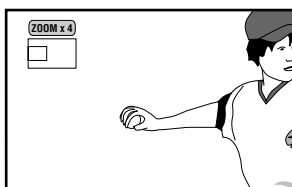


At the top left of the screen, the information for the current magnification appears for 5 seconds. While zoomed in, an indication of the zoomed image position also is displayed. The next step can be used to move the image position.

### 2 Use $\blacktriangle/\blacktriangledown/\blacktriangleleft/\blacktriangleright$ to move the zoomed position.

If no button pressed for 5 seconds, the information for the current magnification disappears.

To display the information, press ZOOM +/- or  $\blacktriangle/\blacktriangledown/\blacktriangleleft/\blacktriangleright$  again.



### NOTES

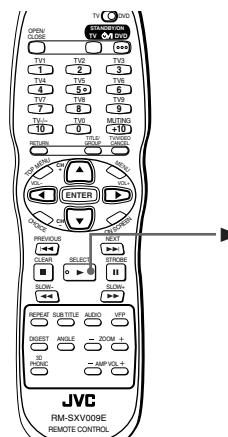
- You can zoom into or out of a picture in slide show mode if the show is paused (see next column).
- To return to a normal screen:  
Press ENTER.
- The image may look coarse when a zoomed image is displayed.

## To see pictures continuously [slide show mode]

You can see files (still pictures) one after another automatically in the slide show mode. In this mode, each file (still picture) is displayed for approximately 3 seconds. The next file will then be displayed.

## Playback features

Available : **JPEG**



- After inserting a JPEG disc

### 1 Press ▶.

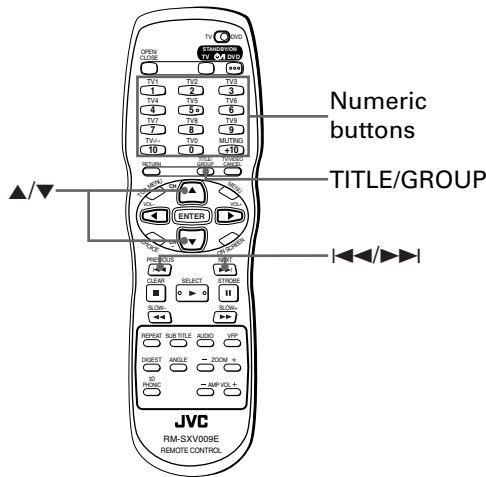
The slide show starts from the beginning of the disc.

### NOTES

- To stop slide show playback (to dismiss the picture) in the middle of slide show playback:  
Press  $\blacksquare$  or MENU.  
The TV screen returns to showing the JPEG CONTROL display.  
Pressing ▶ resumes slide show playback from the last picture displayed.
- To keep showing the current picture while in slide show mode:  
Press  $\parallel$  or ENTER.  
The picture does not change to the next picture.  
Pressing ▶ resumes the slide show playback from the next picture.
- If a black screen appears continuously in the slide show playback:  
The file currently displayed may be non-baseline JPEG file. In this case, select a playable file (a baseline JPEG file) again (e.g., pressing  $\blacksquare$  or MENU to open the JPEG CONTROL display, etc).  
Note that it may take a long time to select another file.

## Selecting the start point of the slide show

Available : **JPEG**

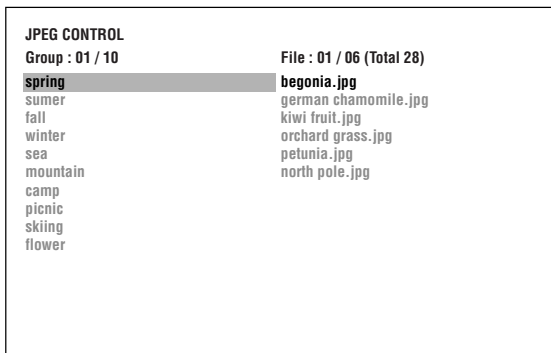


### From the JPEG CONTROL display

- While the JPEG CONTROL display is shown

**1** Make sure that the black (cursor) bar is in the left (Group) column.

If it is in the right column, press ◀ to move it to the left column.



**2** Move the bar to a desired Group using ▲/▼.

In the right column, files in the selected Group are shown.

When selecting a Group, file 1 is initially selected (highlighted).

**3** Select a desired file using ◀▶▶▶.

**4** Press ▶.

The slide show starts from the specified file.

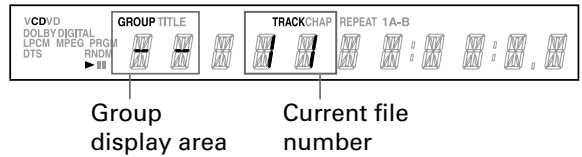
## Direct selection

- During playback or while stopped

**1** Press TITLE/GROUP.

"--" is shown in the Group display area of the display window.

(Front panel display window example)



**2** Use the numeric buttons to specify a desired Group number.

- To select a number between 1 and 10: Press the corresponding button for the number.
- To select a number higher than 10: Use the +10 button.

Examples:

To select 13: +10 → 3

To select 34: +10 → +10 → +10 → 4

To select 40: +10 → +10 → +10 → 10

Specify the Group number within several seconds after pressing TITLE/GROUP (i.e. while the display window shows "--" for the Group number, instead of the current Group number).

**3** Use the numeric buttons to specify a desired file number.

You can specify the file number according to the order in the JPEG CONTROL display. You must specify a file number within 5 seconds after carrying out step 2.

The unit starts slide show playback from the specified file. If you do not specify a file number, the unit starts slide show playback from the first file in the Group.



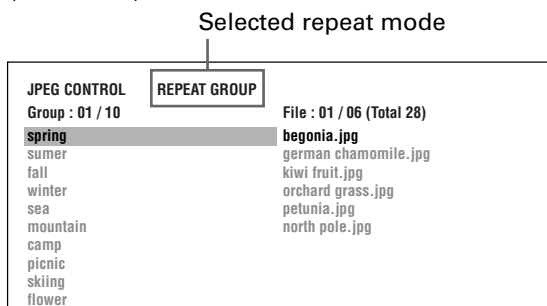
- You can skip a file in the slide show by using ◀▶▶▶ or ▲/▼.
- You can select a file in the current group by using the numeric buttons.



**NOTES**

- **To stop slide show playback (to dismiss the picture) in the middle of slide show playback:**  
 Press ■ or MENU.  
 The TV screen returns to showing the JPEG CONTROL display.  
 Pressing ► resumes slide show playback from the last picture you displayed.
- **To keep showing the current picture while in slide show mode**  
 Press || or ENTER.  
 The picture does not change to the next picture.  
 Pressing ► resumes the slide show playback from the next picture.
- **If a black screen appears continuously in the slide show playback:**  
 The file currently displayed may be non-baseline JPEG file. In this case, select a playable file (a baseline JPEG file) again (e.g., pressing ■ or MENU to open the JPEG CONTROL display, etc).  
 Note that it may take a long time to select another file.

(TV Screen)



(Display window)



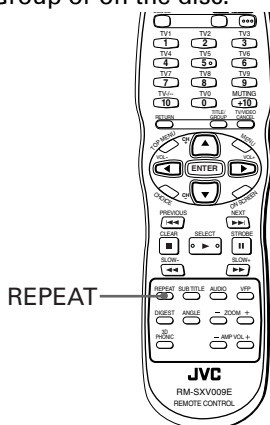
Repeat mode indicator

- **To stop repeat playback**  
 Press ■. Note that the repeat mode remains active.
- **To quit repeat playback**  
 Press ■ or MENU while the JPEG CONTROL display is shown, press REPEAT until the repeat mode indication on the JPEG CONTROL display goes off.

**Repeat function**

Available : **JPEG**

In the slide show mode, you can repeat playback of JPEG files in a Group or on the disc.



- While the JPEG CONTROL display is shown
  - 1 Press REPEAT.  
 Pressing REPEAT switch the repeat mode.  
 If you press REPEAT while the JPEG CONTROL display is shown, you need to press ► to start repeat playback.  
 The selected mode is reflected by an icon displayed in the front panel display window, and by the mode name shown in the JPEG CONTROL display, as described below.

JPEG CONTROL display	Display Window	Function
REPEAT ALL	REPEAT	All files on the disc are repeated.
REPEAT GROUP		All files in the current Group are repeated.
No indication		The repeat mode is off.

JPEG disc playback

# Changing the initial settings

## NOTE



Make sure that the TV - DVD switch on the remote control unit is set to "DVD" when using the ▲/▼/◀/▶ and numeric buttons for controlling the unit.

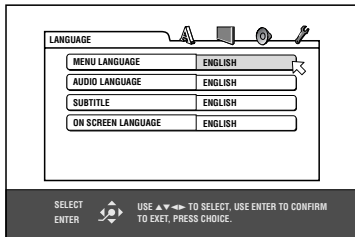
## Selecting preferences

This chapter refers to the settings which are already made when you purchase the unit. Read this section when you want to connect this machine to a wide-vision TV set, or when you want to otherwise change the settings according to your preferences and viewing environment.

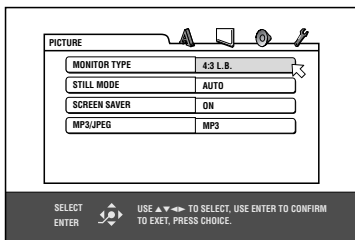
## About the Preference display

The preference display consists of the LANGUAGE, PICTURE, AUDIO, and OTHERS setting displays, each having setting items.

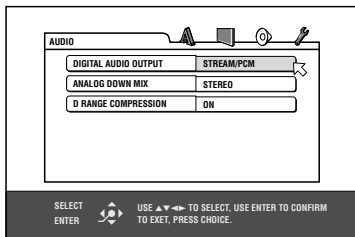
### • LANGUAGE



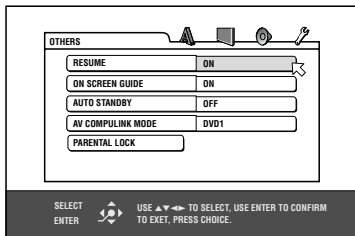
### • PICTURE



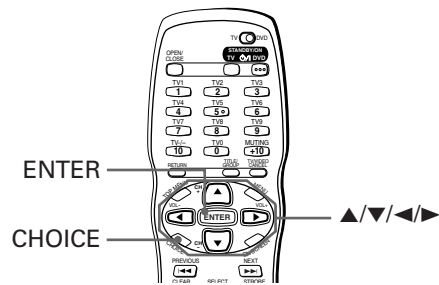
### • AUDIO



### • OTHERS



## How to set preferences



• While stopped

### 1 Press CHOICE.

One of the Preference on-screen displays appears on the TV screen.

You can see four icons at the top right of the on-screen display for the settings.

- : Language menu
- : Picture menu
- : Audio menu
- : Others menu (system setting)

### 2 Select the appropriate icon using ◀/▶.

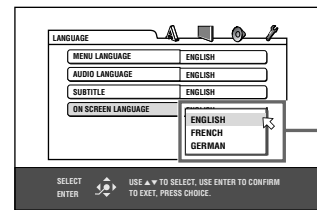
The appropriate display appears on the TV screen.

### 3 Move ◀/▶ to select the item you want to edit using ▲/▼.

The color of the selected item changes.

### 4 Press ENTER.

A pull-down menu appears over the selected item.



Selected item

### 5 Press ▲/▼ to select from the options and press ENTER.

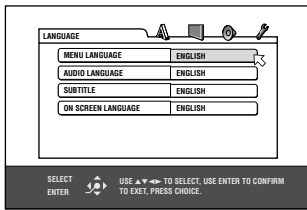
The selected option is set.

- For details about each setting, see the following.

## NOTES

- To dismiss a preference display:  
Press CHOICE.
- While an MP3 or JPEG disc is loaded, you cannot bring up any preference display.
- When a preference display is shown on a wide TV screen, the upper and lower parts of the TV picture sometimes may be cut off. If this happens, adjust the picture size control of the TV.

## LANGUAGE menu



This menu allows you to select the languages used for DVD VIDEO playback, as well as the on-screen display language of the unit.

### NOTE

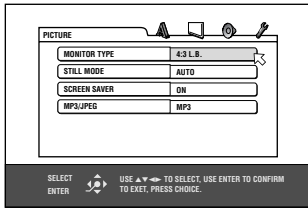
- During playback, you can bring up any page of the preference displays; however, only "ON SCREEN LANGUAGE" can be set on the "LANGUAGE" page.

Menu item	Setting options	Notes/examples
<b>MENU LANGUAGE</b> You can select the default menu language to be displayed if it is contained on a DVD VIDEO disc.	<b>ENGLISH ↔ SPANISH ↔ FRENCH ↔ CHINESE ↔ GERMAN ↔ ITALIAN ↔ JAPANESE ↔ language code from AA to ZU</b>	<ul style="list-style-type: none"> <li>• If the disc does not have a menu in the selected language, the disc's default language will be used.</li> <li>• For details about language codes, see "Table of languages and their abbreviations" at the bottom of this page.</li> </ul>
<b>AUDIO LANGUAGE</b> You can select the default audio language to be played if it is contained on a DVD VIDEO disc.		
<b>SUBTITLE</b> You can select the default subtitle language to be displayed if it is contained on a DVD VIDEO disc.		
<b>ON SCREEN LANGUAGE</b> You can select the on-screen display language of the unit.	<b>ENGLISH ↔ FRENCH ↔ GERMAN</b>	English <input type="text" value="ON SCREEN LANGUAGE"/> <input type="text" value="ENGLISH"/> French <input type="text" value="LANGUE D' ECRAN"/> <input type="text" value="FRANCAIS"/> German <input type="text" value="BILDSCHIRMENUE-SPRACHE"/> <input type="text" value="DEUTSCH"/> <ul style="list-style-type: none"> <li>• Some on-screen messages are shown in English regardless of the setting.</li> <li>• You cannot change the on-screen language shown on the MP3 and JPEG CONTROL displays.</li> </ul>

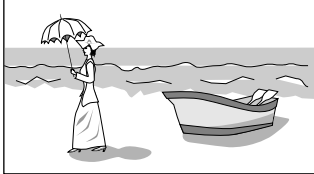

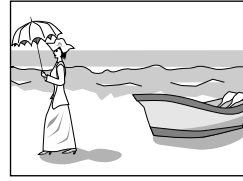
## Table of languages and their abbreviations

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

## PICTURE menu

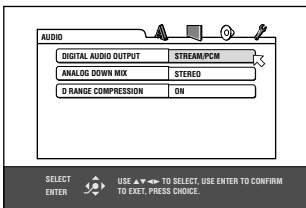


This menu allows you to select options having to do with picture quality or the monitor screen.

Menu item	Setting options	Notes/examples
<p><b>MONITOR TYPE</b> You can select the monitor type to match your TV when you playback DVD VIDEO discs recorded for wide-screen televisions.</p>	<ul style="list-style-type: none"> <li>• <b>16:9 NORMAL (Wide Television screen)</b> Should be selected when you connect the unit to a wide-screen (16:9) TV whose aspect ratio is set to 16:9 (the unit automatically adjusts the screen width of the output signal correctly when playing back a 4:3 source).</li> <li>• <b>16:9 AUTO (Wide Television screen)</b> Should be selected when you connect a wide-screen (16:9) TV to the unit.</li> </ul>	 <ul style="list-style-type: none"> <li>• If you play a 4:3 DVD VIDEO source using the "16:9 NORMAL" mode, the picture character changes slightly due to the process for converting the picture width.</li> </ul>
	<ul style="list-style-type: none"> <li>• <b>4:3 LB. (Letter Box Conversion)</b> Should be selected when you connect a normal (4:3) TV to the unit. When playing back a DVD VIDEO disc recorded in wide picture format, the picture is shown with black bars at the top and bottom.</li> </ul>	
	<ul style="list-style-type: none"> <li>• <b>4:3 PS. (Pan Scan Conversion)</b> Should be selected when you connect a normal (4:3) TV to the unit. When playing back a DVD VIDEO disc recorded in wide picture format, the picture is zoomed to fill the screen vertically, and the left and right sides of the image are chopped off.</li> </ul>	 <ul style="list-style-type: none"> <li>• With some discs recorded in wide picture format, the picture will be shown in the 4:3 LB mode even if you select the 4:3 PS mode.</li> </ul>
<p><b>STILL MODE</b> This mode selects whether the content on the disc is processed by field or by frame. If set to AUTO, the decision of how to process the content is made automatically, based on data and flags recorded on the disc.</p>	<ul style="list-style-type: none"> <li>• <b>AUTO</b> The unit recognizes the picture type (film or video source) of the current disc.</li> <li>• <b>FIELD</b> Suitable for playing back a video source disc.</li> <li>• <b>FRAME</b> Suitable for playing back a film source disc.</li> </ul>	<ul style="list-style-type: none"> <li>• Normally, set to "AUTO."</li> <li>• Some DVD VIDEO discs may not play correctly if AUTO is selected. If the picture is unclear or noisy with a particular DVD VIDEO disc, try changing the mode.</li> </ul>

Menu item	Setting options	Notes/examples
<b>SCREEN SAVER</b> You can set the screen saver function ON or OFF. See page 15 for details about the screen saver function.	<ul style="list-style-type: none"> <li>• <b>ON</b> The current picture gets dark.</li> </ul>	
	<ul style="list-style-type: none"> <li>• <b>OFF</b> The screen saver function is off.</li> </ul>	
<b>MP3/JPEG</b> The unit can play MP3 and JPEG files recorded on a CD-R/CD-RW disc. However, if a disc contains both MP3 and JPEG files, you can only play files of the type selected in this menu item.	<ul style="list-style-type: none"> <li>• <b>MP3</b> Only MP3 files can be played back if a disc contains both MP3 and JPEG files.</li> </ul>	<ul style="list-style-type: none"> <li>• When a disc contains either only MP3 files or only JPEG files, the unit can play back the files regardless of the setting.</li> </ul>
	<ul style="list-style-type: none"> <li>• <b>JPEG</b> Only JPEG files can be played back if a disc contains both MP3 and JPEG files.</li> </ul>	

## AUDIO menu



This menu allows you to select desired options concerning with audio sound.

Menu item	Setting options	Notes/examples
<b>DIGITAL AUDIO OUTPUT</b> To connect the unit's digital output to an external device equipped with a digital input, this item must be set correctly. See the table following for details about the relation between the setting and output signals.	<ul style="list-style-type: none"> <li>• <b>PCM ONLY</b> Should be selected when you connect the DIGITAL OUT jack of the unit to the linear PCM digital input of other audio equipment.</li> </ul>	<ul style="list-style-type: none"> <li>• When playing a DVD VIDEO or Audio CD disc with DTS, use a DTS decoder to get correct signals from your speakers.</li> <li>• With some DVD VIDEO discs that are not fully copy-protected, a 20 or 24 bit digital signal may be output.</li> <li>• A signal recorded with the 88.2 kHz or higher sampling frequency cannot be output from the DIGITAL OUT jack, regardless of the setting (due to copy protection issues).</li> </ul>
	<ul style="list-style-type: none"> <li>• <b>DOLBY DIGITAL/PCM</b> Should be selected when you connect the digital input of a Dolby Digital decoder or an amplifier with a built-in Dolby Digital decoder. When this option is selected, playing back a disc recorded by the DTS or MPEG Multichannel format outputs a linear PCM digital signal.</li> </ul>	
	<ul style="list-style-type: none"> <li>• <b>STREAM/PCM</b> Should be selected when you connect the digital input of an amplifier with a built-in DTS, MPEG Multichannel or Dolby Digital decoder, or the stand-alone unit of such a decoder.</li> </ul>	

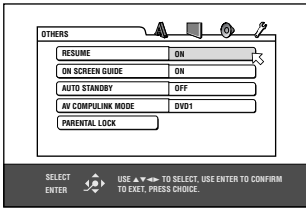
## Digital output signal chart

Disc type	Output		
	PCM ONLY	DOLBY DIGITAL/PCM	STREAM/PCM
DVD with 48/44.1 kHz, 16/20/24 bit linear PCM	48/44.1 kHz, 16 bit, stereo linear PCM		
DVD with 96/88.2 kHz, 16/22/24 bit linear PCM	No output		
DVD with DTS	48 kHz, 16 bit, stereo linear PCM		DTS bitstream
DVD with Dolby Digital	48 kHz, 16 bit, stereo linear PCM	Dolby Digital bitstream	
DVD with MPEG Multichannel	48 kHz, 16 bit, stereo linear PCM		MPEG bitstream
Audio CD/Video CD/SVCD	44.1 kHz, 16 bit, stereo linear PCM		
Audio CD with DTS	44.1 kHz, 16 bit, stereo linear PCM		DTS bitstream
CD-R/RW with MP3	L.PCM		

Menu item	Setting options	Notes/examples
<b>ANALOG DOWN MIX</b> To correctly play the audio on a DVD VIDEO disc recorded with surround multichannel audio, you must set this item properly according to your audio system configuration.	<ul style="list-style-type: none"> <li> <b>DOLBY PROLOGIC</b>                              Should be selected when listening to multichannel surround audio when the unit's analog AUDIO OUT terminals are connected to a surround decoder.                         </li> </ul>	<ul style="list-style-type: none"> <li>This function does not work when the 3D PHONIC function is activated (see page 35).</li> <li>This setting affects only the output signal from the analog AUDIO OUT jacks when playing back a DVD VIDEO disc recorded with surround multichannel audio.</li> </ul>
	<ul style="list-style-type: none"> <li> <b>STEREO</b>                              Should be selected when listening to conventional two-channel stereo audio when the unit's analog AUDIO OUT terminals are connected to a stereo amplifier/receiver or television set, or when you want to record the audio from a DVD VIDEO disc to MiniDisc, cassette, etc.                         </li> </ul>	
<b>D. RANGE COMPRESSION</b> This setting provides optimal audio quality for listening to DVD VIDEO discs recorded in Dolby Digital format, at low or middle volume.	<ul style="list-style-type: none"> <li> <b>AUTO</b>                              Audio is played back with the dynamic range compressed except when playing a disc recorded with Dolby Digital 1- or 2-channel format.                         </li> </ul>	<ul style="list-style-type: none"> <li>This function works only when playing back a disc recorded with Dolby Digital. The setting does not affect audio from other discs.</li> <li>This function does not work when the 3D PHONIC function is activated (see page 35).</li> </ul>
	<ul style="list-style-type: none"> <li> <b>ON</b>                              Audio is always played back with the dynamic range compressed.                         </li> </ul>	

## OTHERS menu

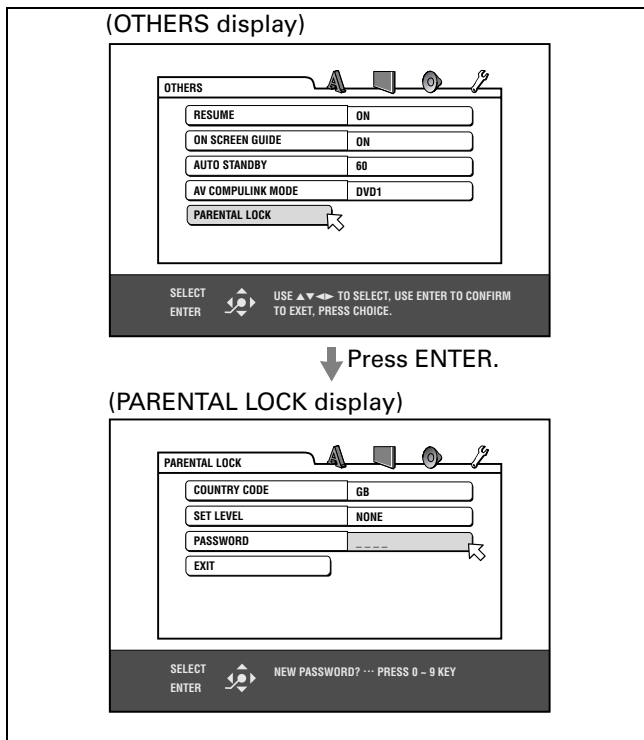
This menu allows you to set various system options.



Menu item	Setting options	Notes/examples
<b>RESUME</b> You can select the resume playback mode.	<ul style="list-style-type: none"> <li><b>ON</b> The unit can resume playback of the disc from the position where play was last interrupted, if the disc is still in the tray.</li> <li><b>OFF</b> The resume function is not active.</li> <li><b>DISC RESUME</b> The unit can resume playback of the last 30 discs played. The unit retains a memory of the interrupt positions of the last 30 discs played, even though they have been removed from the tray.</li> </ul>	<ul style="list-style-type: none"> <li>See page 17 for details about the resume playback function.</li> </ul>
<b>ON SCREEN GUIDE</b> The unit can display "on-screen guide" icons or characters on the picture, which show what is happening to the disc or the unit.	<ul style="list-style-type: none"> <li><b>ON</b> On-screen guide icons will be displayed.</li> <li><b>OFF</b> On-screen guide icons will not be displayed.</li> </ul>	<ul style="list-style-type: none"> <li>See page 15 for information about on-screen guide icons.</li> <li>Examples of "on-screen guide" icons or characters: </li> </ul>
<b>AUTO STANDBY</b> When the unit is stopped for more than 30 minutes or 60 minutes, the unit enters standby mode automatically.	<b>OFF ↔ 60 ↔ 30</b>	<hr/>
<b>AV COMPULINK MODE</b> This item is provided for use in the future. Leave it as the default setting ("DVD 1").	<hr/>	<hr/>
<b>PARENTAL LOCK</b> When this option is selected, pressing ENTER on the remote control unit brings up to the PARENTAL LOCK display shown following. This allows you to restrict children from playing DVD VIDEO discs.	See page 54 for details about the Parental Lock setting.	(PARENTAL LOCK display) 

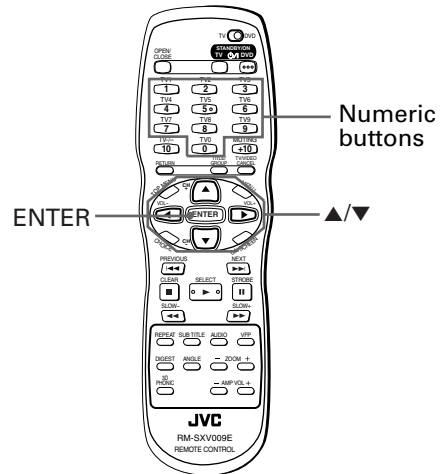
## Limiting playback by children

This function restricts playback of DVD VIDEO discs which contain violent (and other) scenes according to the level set by the user. For example, if a movie which includes violent scenes supports the parental lock feature, such scenes which you do not want to let children view can be cut or replaced with other scenes. When PARENTAL LOCK is set in the OTHERS menu of the Preference display (see page 53), pressing ENTER on the remote control unit brings up the PARENTAL LOCK display shown following. This allows you to set limits on DVD VIDEO playback.



## To set Parental Lock for the first time [PARENTAL LOCK]

Available :



- While the "OTHERS" menu of the preference display is shown

1 Use ▲/▼ to move to select "PARENTAL LOCK" and press ENTER.

See page 53 for details about how to bring up the "OTHERS" menu.

The Parental Lock on-screen display appears on the TV screen.

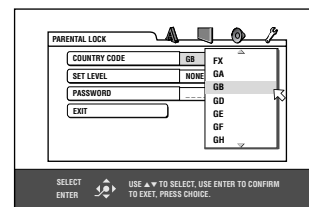
points [COUNTRY CODE].

2 While points to [COUNTRY CODE], press ENTER to bring up the pull-down menu.

3 Use ▲/▼ to select the country code.

Select the code of the country whose standards were used to rate the DVD VIDEO disc content.

See "Appendix A: Country/Area code list for Parental Lock" on page 63.



4 Press ENTER.

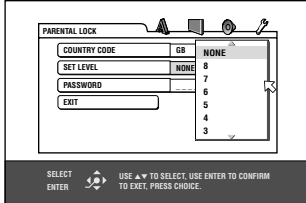
moves to [SET LEVEL].




**5** While  points to [SET LEVEL], press ENTER to bring up the pull-down menu.

In the pull-down menu, "NONE" and levels "8" to "1" are available.

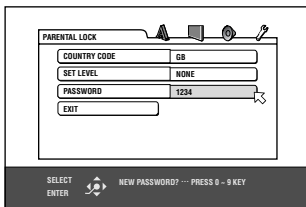
"NONE" does not restrict playback. Level "1" is the strictest level. Discs rated higher than the selected level are restricted.



**6** Use ▲/▼ to select a desired parental lock level, then press ENTER.


 moves to [PASSWORD].

**7** Enter a 4-digit password using the numeric buttons (0 to 9).



**8** Press ENTER.

The parental lock feature is set.


 moves to [EXIT].

Pressing ENTER again returns to the "OTHERS" menu of the preference display.

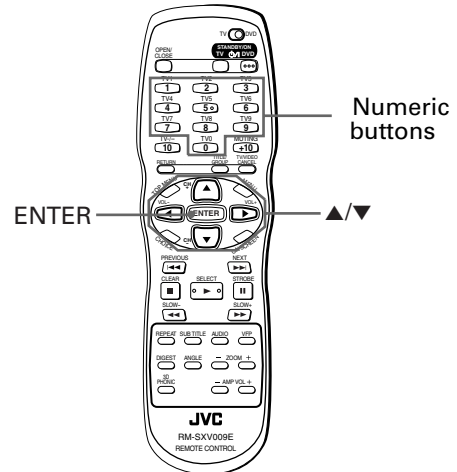
 Hints

- If you want to change the password in step 7, do it before pressing ENTER.

## To change the settings [PARENTAL LOCK]

Available : 


You can change the Parental Lock settings later.



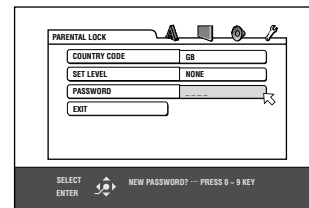
- While the "OTHERS" menu of the preference display is shown

**1** Use ▲/▼ to move  to select "PARENTAL LOCK" and press ENTER.


The Parental Lock on-screen display appears on the TV screen.

 points to [PASSWORD].


See page 53 for details about how to bring up the "OTHERS" menu.



**2** Enter your current 4-digit password using the numeric buttons (0 to 9) and press ENTER.

 moves to [COUNTRY CODE] if you enter the correct password.


If you enter the wrong password, "WRONG! RETRY..." appears on the TV screen, and you cannot go to the next step.

**3** To change the "COUNTRY CODE" or "LEVEL," press ENTER to bring up the associated pull-down menu when  is pointing the desired item.

To select the item to be set, use ▲/▼ when no pull-down menu is shown.


**4** Use ▲/▼ to select the desired option and press ENTER.

Note that if you change the country code, you must reselect the Parental Lock level.

**5** With  pointing to [PASSWORD], enter a 4-digit password using the numeric buttons (0 to 9).


The password entered in this step becomes the new password. If you want to keep the same password as before, enter the same password you did in step 2. Do not forget to enter a password after changing the country code and/or parental level. Otherwise, the new country code and/or parental level will not take effect.

**6** Press ENTER.


 moves to [EXIT].

Pressing ENTER again returns to the "OTHERS" menu of the preference display.

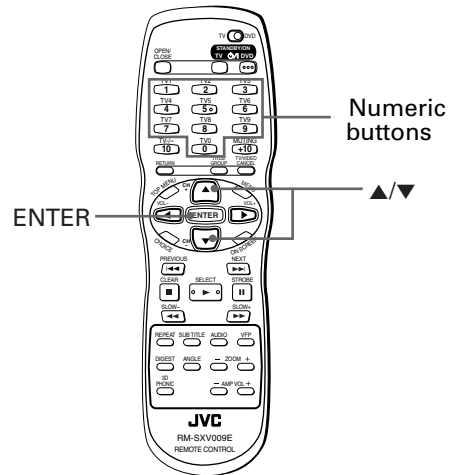
**NOTES**

- If you enter the wrong password more than 3 times in step 2 above,  moves to [EXIT] automatically and ▲/▼ do not work.
- If you forget your password in step 2  
Enter "8888." The current password is deleted and you can set a new password.


**To temporarily release the Parental Lock [PARENTAL LOCK]**

Available : 

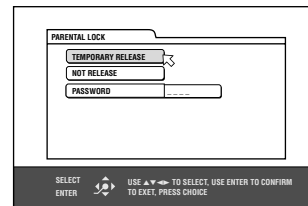
If the parental level is set to a strict value, some discs may not play at all. When you insert such a disc and try to play it, the following Parental Lock on-screen display appears on the TV screen, asking you whether you want the Parental Lock to be temporarily released or not.



**1** Use the ▲/▼ to move  to [TEMPORARY RELEASE], then press ENTER.

 moves to [PASSWORD].

When selecting [NOT RELEASE], press ▲ (OPEN/CLOSE) to remove the disc.




**2** Enter your 4-digit password using the numeric buttons (0 to 9).

The Parental Lock is released, and the unit starts playback.

If you enter the wrong password, "WRONG! RETRY..." appears on the TV screen.

Enter the correct password.

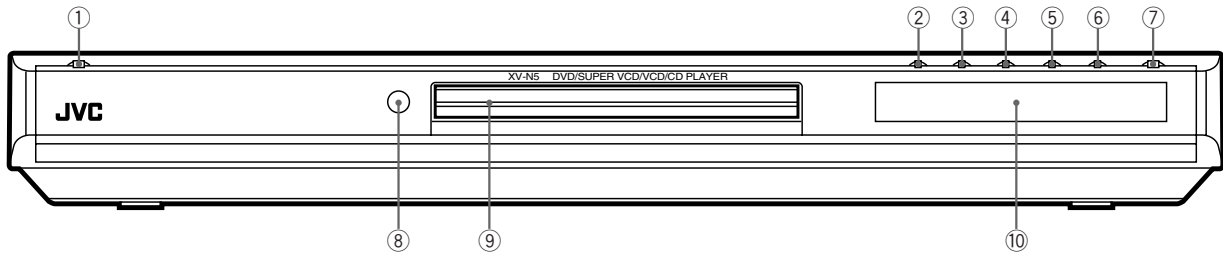
**NOTE**

- When you enter the wrong password more than 3 times in step 2 above,  moves to [NOT RELEASE] automatically and ▲/▼ do not work.

## Names of parts and controls

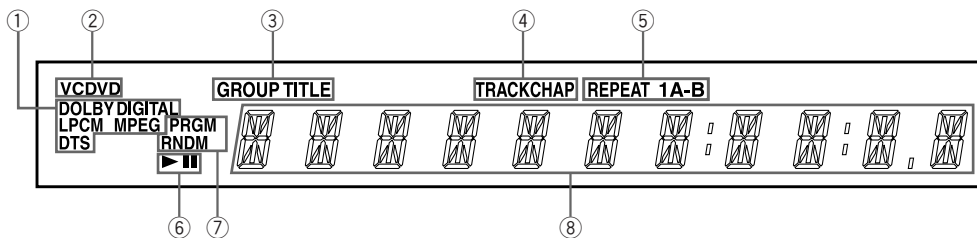
Refer to the corresponding pages indicated in ( ) for details.

### Front panel



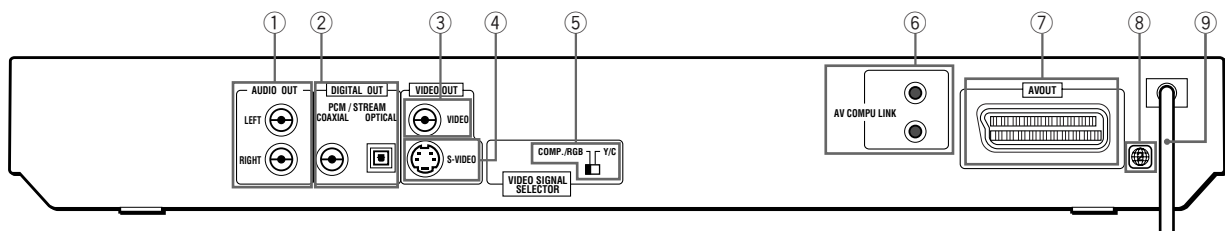
- |                              |   |
|------------------------------|---|
| ① STANDBY/ON ⏻/⏻ button (12) | ⑥ ▶▶ buttons (18, 20)                         |
| ② ■ button (15, 16, 40)      | ⑦ ▲ button (14, 16, 17)                       |
| ③ ▶ button (15, 17)          | ⑧ Remote sensor (10)                          |
| ④    PAUSE button (15, 18)   | ⑨ Disc tray (14, 16, 17)                      |
| ⑤ ◀◀ buttons (18, 20)        | ⑩ Display window (see the illustration below) |

### Display window



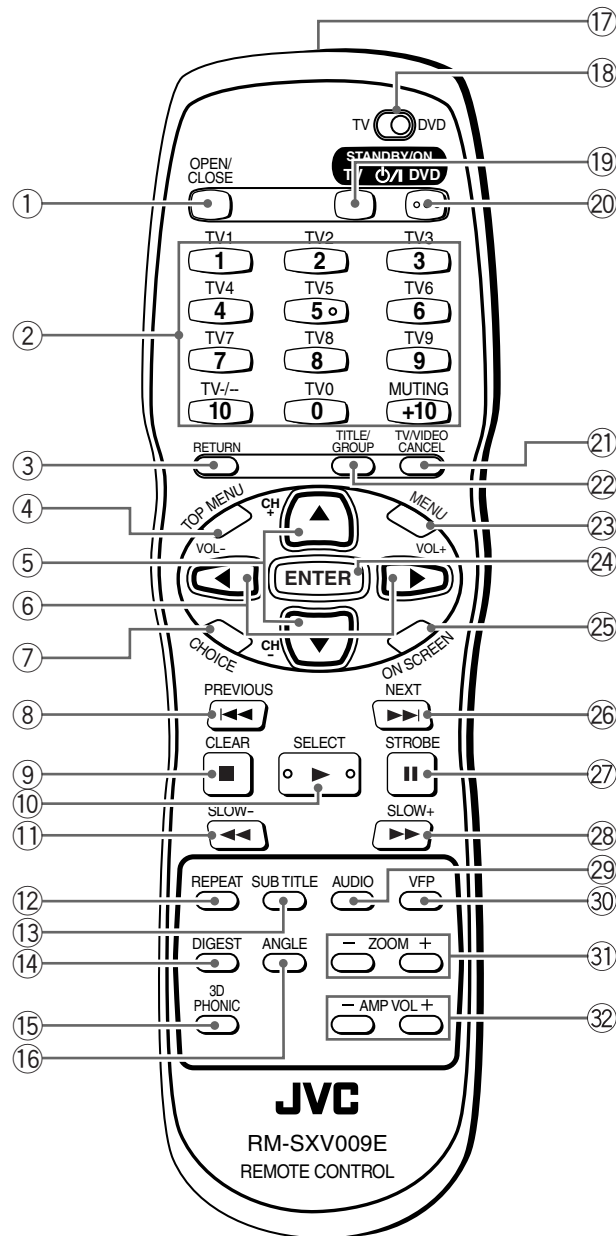
- |                            |                               |
|----------------------------|-------------------------------|
| ① Audio format indicators  | ⑤ Repeat mode indicator       |
| ② Disc indicator           | ⑥ ▶(play)/  (pause) indicator |
| ③ Group/title indicators   | ⑦ PROGRAM/RANDOM indicator    |
| ④ Track/chapter indicators | ⑧ Multi-information window    |

### Rear panel



- |   |                         |
|---|-------------------------|
| ① AUDIO OUT jacks (6, 7, 8)               | ⑤ VIDEO SIGNAL SELECTOR |
| ② DIGITAL OUT jacks (OPTICAL/COAXIAL) (8) | ⑥ AV COMPU LINK jacks   |
| ③ VIDEO OUT - VIDEO jack (6)              | ⑦ AV OUT connector      |
| ④ VIDEO OUT - S-VIDEO jack (6)            | ⑧ Region code label (4) |
|   | ⑨ AC Power cord (9)     |

## Remote control unit



- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>① OPEN/CLOSE button (14, 16, 17)</li> <li>② Numeric buttons</li> <li>③ RETURN button (23)</li> <li>④ TOP MENU button (23)</li> <li>⑤ Cursor selection (▲ Up, ▼ Down) - CH (+/-) buttons (11)</li> <li>⑥ Cursor selection (◀ Left, ▶ Right) - VOL (+/-) buttons (11)</li> <li>⑦ CHOICE button (13, 48)</li> <li>⑧ ◀◀/PREVIOUS button (18, 20, 40, 44)</li> <li>⑨ ■/CLEAR button (15, 16, 27, 40, 47)</li> <li>⑩ ▶/SELECT button (15, 23, 40, 45)</li> <li>⑪ ◀◀/SLOW- button (18)</li> <li>⑫ REPEAT button (28, 42, 47)</li> <li>⑬ SUBTITLE button (30)</li> <li>⑭ DIGEST button (25)</li> <li>⑮ 3D PHONIC button (35)</li> </ul> | <ul style="list-style-type: none"> <li>⑯ ANGLE button (21, 32)</li> <li>⑰ Infrared signal window (10)</li> <li>⑱ TV - DVD switch (11, 12, 23, 40, 43, 48)</li> <li>⑲ TV STANDBY/ON ⏻/⏺ button (11)</li> <li>⑳ DVD STANDBY/ON ⏻/⏺ button (12)</li> <li>㉑ TV/VIDEO - CANCEL button (11)</li> <li>㉒ TITLE/GROUP button (24, 42, 46)</li> <li>㉓ MENU button (23)</li> <li>㉔ ENTER button</li> <li>㉕ ON SCREEN button (21, 36)</li> <li>㉖ ▶▶/NEXT button (18, 20, 40, 44)</li> <li>㉗ ⏸/STROBE button (15, 18, 19, 33, 40)</li> <li>㉘ ▶▶/SLOW+ button (18)</li> <li>㉙ AUDIO button (31)</li> <li>㉚ VFP button (34)</li> <li>㉛ ZOOM +/- buttons (33, 45)</li> <li>㉜ AMP VOL +/- buttons (11)</li> </ul> |
|--|--|

# Troubleshooting

What appears to be a malfunction may not always be serious. Please go through the following list before requesting service.

POWER		
Symptom	Possible cause	Remedy
Power does not come on.	Power plug is not inserted securely.	Plug in securely.
OPERATION		
Symptom	Possible cause	Remedy
The remote control unit does not work.	Too far from the unit.	Move closer to the unit.
	The tip of the remote control unit is not pointed in the right direction.	Point the infrared signal window toward the remote sensor on the front panel (see page 10).
	Batteries are exhausted.	Replace the batteries with new ones.
	Battery polarity is incorrect.	Take out the batteries and insert them again in the correct direction.
	The remote control unit is not set for operating your TV.	Set the remote control unit for operating your TV (see page 11).
The TV/VIDEO - CANCEL, ▲/▼/◀/▶ or numeric buttons do not work.	The TV - DVD switch is not correctly set.	To control the unit, set the TV - DVD switch to "DVD." To control your TV, set the TV - DVD switch to "TV" (see page 11).
Operation is not possible.	Microcomputer malfunction due to lightning or static electricity.	Turn off the power and unplug the power cord, then connect the power cord again.
	Moisture condensation caused by a sudden change of temperature or humidity.	Turn off the power, then turn it on a few hours later.
	The disc does not allow the operation, or a non-playable disc is loaded.	Check and replace the disc (see page 4).
When using the TITLE/GROUP button to select a title during DVD VIDEO playback, ⊙ appears on the TV screen and the title cannot be selected.	Disc content does not allow the operation.	Try to press ■ and select a title using the numeric buttons on the remote control.

<b>PICTURE</b>		
<b>Symptom</b>	<b>Possible cause</b>	<b>Remedy</b>
No picture is displayed on the monitor.	Connection of video cable is incorrect.	Connect the cable correctly.
	Input selection of TV is incorrect.	Select correctly.
	Disc is not playable.	Use a playable disc (see page 4).
The picture is noisy or blurred.	The unit is connected to a VCR directly and the copyguard function is activated.	Connect the unit so that the picture signal flows directly to the TV.
	With some discs, the picture may be blurred when "STILL MODE" is set to "FRAME" or "AUTO."	Set "STILL MODE" to "FIELD" (see page 50).
The picture does not fit the television screen.	MONITOR TYPE is not set correctly.	Select monitor type correctly (see page 50).
	TV settings are incorrect.	Set the television correctly.
The upper and lower parts of the preference display are cut off when using wide-aspect TV.	It depends on the setting on the TV.	Adjust the TV screen using the controls on the TV.
<b>AUDIO</b>		
<b>Symptom</b>	<b>Possible cause</b>	<b>Remedy</b>
No audio is reproduced.	Connection is incorrect.	Check the connection.
	Input selection of amplifier is incorrect.	Select correctly.
No audio is reproduced when playing back a DVD disc recorded with high sampling frequency (88.2 kHz or more) linear PCM audio using the DIGITAL OUT jack.	Audio signal is not emitted from the unit's DIGITAL OUT (see page 51).	Use AUDIO OUT when playing back such discs.
Audio volume is low when playing back with the unit, compared with the TV or VCR.	The audio level recorded on a DVD VIDEO is lower compared with a TV broadcast.	Turn up the volume of the TV or amplifier/receiver. Remember to turn the volume back down before switching back to a TV broadcast to prevent a sudden burst of high-volume sound.
Sound is distorted or noise is generated.	Disc is dirty.	Wipe the disc surface (see page 5).

## Frequently Asked Questions

Question	Answer	Ref. page
Can I play back DVD VIDEO and Video CD discs purchased abroad?	You can play DVD VIDEO discs with the Region Code (local code) containing "ALL" or "2" recorded using the PAL formats. Please check the information on each disc jacket.	4
Can I play back a DVD VIDEO disc without any Region Code number?	The Region code indicates conformity to DVD standards. Any DVD VIDEO which does not conform to the DVD standards cannot be played.	4
Can I play back a CD-R/RW disc with still pictures in other than the JPEG format?	No, the unit cannot display pictures in formats other than JPEG.	4
Can I play back audio on a disc labeled "Dolby Digital EX"?	Yes, you can play back the disc because Dolby Digital EX is compatible with Dolby Digital. However, to get the maximum performance of Dolby Digital EX, we recommend to connect the DIGITAL OUT jack to a decoder or amplifier/receiver with built-in decoder that supports Dolby Digital EX. In this case, set "DIGITAL AUDIO OUTPUT" on the "AUDIO" preference display to "STREAM/PCM."	51, 52
Can I play back audio on a disc labeled "DTS ES"? Is there any difference in the playback settings between Discrete and Matrix recording systems for DTS ES?	You cannot listen to the audio using the analog audio outputs (AUDIO OUT). However, you can listen to DTS ES audio by connecting the DIGITAL OUT jack to a decoder or amplifier/receiver with built-in decoder that supports DTS ES. In this case, set "DIGITAL AUDIO OUTPUT" on the "AUDIO" preference display to "STREAM/PCM."	51, 52
Can this unit play back a disc labeled "THX"? What does "THX" mean?	Yes you can. "THX" is the name of a standard for high quality picture and audio recording, established by Lucasfilm Ltd. The "THX" label on a disc certifies that it meets this standard.	—
When files of the MP3 and Audio CD formats are recorded on a same disc, can the unit play files of both formats?	Discs like this are of the data CD format, not the Audio CD format. The unit can play only the MP3 files.	4, 40
Some Dolby Digital discs contain 5.1-ch Surround or Dolby Surround audio data. What is the difference between these two types?	Both are surround sound standards developed by Dolby Laboratories Inc. in the U.S.A. In Dolby Surround, two-channel surround audio information is recorded onto the analog stereo (left and right) channels together with front stereo audio information. When played back, the surround signals are separated by a Dolby Surround or Dolby Pro Logic decoder. Dolby Digital digitally encodes and records up to six channels of information for left, right, center, rear left, rear right and LFE (Low-Frequency Effect, for use with a subwoofer). When played back, a Dolby Digital decoder decodes the data and outputs signals separately. Generally, Dolby Digital sounds better.	4
When playing back a DVD VIDEO or Video CD disc, something like a mosaic appears on the TV screen. Is this because of a malfunction of the unit?	This is block noise specific to a digitally recorded motion picture. It is not a malfunction of the unit.	—
The unit does not function as described in this Instruction Manual.	The operation of this unit may occasionally be unacceptable due to the intention of the disc contents creator and/or structural restrictions.	—
Can I record DVD VIDEO data on a video tape?	Most of all DVD VIDEO discs are copy-protected so that you cannot record DVD VIDEO data onto any video tape.	3
Can this unit record data?	No, it cannot.	—

# Specifications

\*Specifications and appearance subject to change without prior notice.

## General

Readable discs: DVD VIDEO, DVD-R (Video format), SVCD, Video CD, Audio CD (CD-DA), MP3 format, JPEG, CD-R/RW (CD-DA, SVCD, Video CD, MP3 format, JPEG)

Video format: PAL

## Other

Power requirements: AC 230 V  $\sim$ , 50 Hz

Power consumption: 15 W (POWER ON), 2 W (STANDBY mode)

Mass: 2.4 kg

Dimensions (W x H x D): 435 mm x 55 mm x 258.4 mm

## Video outputs

VIDEO OUT (pin jack): 1.0 Vp-p (75  $\Omega$ )

S-VIDEO OUT (S jack): Y Output: 1.0 Vp-p (75  $\Omega$ )  
C Output: 286 mVp-p (75  $\Omega$ )  
RGB Output: 700mVp-p(75  $\Omega$ )

Horizontal resolution: 500 Lines or more

## Audio outputs

ANALOG OUT (pin jack): 2.0 Vrms (10 k $\Omega$ )

DIGITAL OUT: (COAXIAL): 0.5 Vp-p (75  $\Omega$  termination)

(OPTICAL): -21 dBm to -15 dBm (peak)

## Audio characteristics

Frequency response: CD (sampling frequency 44.1 kHz): 2 Hz to 20 kHz  
DVD (sampling frequency 48 kHz): 2 Hz to 22 kHz  
(4 Hz to 20 kHz for DTS and Dolby Digital bitstream signals)

DVD (sampling frequency 96kHz/88.2 kHz): 2 Hz to 44 kHz

Dynamic range: 16 bit: More than 98 dB  
20 bit: More than 106 dB  
24 bit: More than 106 dB

Wow and flutter: Unmeasurable (less than  $\pm$  0.002%)

Total harmonic distortion: less than 0.002%



## Appendix A: Country/Area code list for Parental Lock

This list is used for the Parental Lock operation. For details, see page 54.

AD	Andorra
AE	United Arab Emirates
AF	Afghanistan
AG	Antigua and Barbuda
AI	Anguilla
AL	Albania
AM	Armenia
AN	Netherlands Antilles
AO	Angola
AQ	Antarctica
AR	Argentina
AS	American Samoa
AT	Austria
AU	Australia
AW	Aruba
AZ	Azerbaijan
BA	Bosnia and Herzegovina
BB	Barbados
BD	Bangladesh
BE	Belgium
BF	Burkina Faso
BG	Bulgaria
BH	Bahrain
BI	Burundi
BJ	Benin
BM	Bermuda
BN	Brunei Darussalam
BO	Bolivia
BR	Brazil
BS	Bahamas
BT	Bhutan
BV	Bouvet Island
BW	Botswana
BY	Belarus
BZ	Belize
CA	Canada
CC	Cocos (Keeling) Islands
CF	Central African Republic
CG	Congo
CH	Switzerland
CI	Côte d'Ivoire
CK	Cook Islands
CL	Chile
CM	Cameroon
CN	China
CO	Colombia
CR	Costa Rica
CU	Cuba
CV	Cape Verde
CX	Christmas Island
CY	Cyprus
CZ	Czech Republic
DE	Germany
DJ	Djibouti
DK	Denmark
DM	Dominica
DO	Dominican Republic
DZ	Algeria
EC	Ecuador
EE	Estonia
EG	Egypt
EH	Western Sahara
ER	Eritrea
ES	Spain
ET	Ethiopia
FI	Finland
FJ	Fiji
FK	Falkland Islands
FM	Micronesia (Federated States of)
FO	Faroe Islands
FR	France
FX	France, Metropolitan
GA	Gabon
GB	United Kingdom
GD	Grenada
GE	Georgia
GF	French Guiana
GH	Ghana
GI	Gibraltar
GL	Greenland
GM	Gambia
GN	Guinea
GP	Guadeloupe
GQ	Equatorial Guinea
GR	Greece
GS	South Georgia and the South Sandwich
GT	Guatemala
GU	Guam
GW	Guinea-Bissau
GY	Guyana
HK	Hong Kong
HM	Heard Island and McDonald Islands
HN	Honduras
HR	Croatia
HT	Haiti
HU	Hungary
ID	Indonesia
IE	Ireland
IL	Israel
IN	India
IO	British Indian Ocean Territory
IQ	Iraq
IR	Iran (Islamic Republic of)
IS	Iceland
IT	Italy
JM	Jamaica
JO	Jordan
JP	Japan
KE	Kenya
KG	Kyrgyzstan
KH	Cambodia
KI	Kiribati
KM	Comoros
KN	Saint Kitts and Nevis
KP	Korea, Democratic People's Republic of
KR	Korea, Republic of
KW	Kuwait
KY	Cayman Islands
KZ	Kazakhstan
LA	Lao People's Democratic Republic
LB	Lebanon
LC	Saint Lucia
LI	Liechtenstein
LK	Sri Lanka
LR	Liberia
LS	Lesotho
LT	Lithuania
LU	Luxembourg
LV	Latvia
LY	Libyan Arab
MA	Morocco
MC	Monaco
MD	Moldova, Republic of
MG	Madagascar
MH	Marshall Islands
ML	Mali
MM	Myanmar
MN	Mongolia
MO	Macau
MP	Northern Mariana Islands
MQ	Martinique
MR	Mauritania
MS	Montserrat
MT	Malta
MU	Mauritius
MV	Maldives
MW	Malawi
MX	Mexico
MY	Malaysia
MZ	Mozambique
NA	Namibia
NC	New Caledonia
NE	Niger
NF	Norfolk Island
NG	Nigeria
NI	Nicaragua
NL	Netherlands
NO	Norway
NP	Nepal
NR	Nauru
NU	Niue
NZ	New Zealand
OM	Oman
PA	Panama
PE	Peru
PF	French Polynesia
PG	Papua New Guinea
PH	Philippines
PK	Pakistan
PL	Poland
PM	Saint Pierre and Miquelon
PN	Pitcairn
PR	Puerto Rico
PT	Portugal
PW	Palau
PY	Paraguay
QA	Qatar
RE	Réunion
RO	Romania
RU	Russian Federation
RW	Rwanda
SA	Saudi Arabia
SB	Solomon Islands
SC	Seychelles
SD	Sudan
SE	Sweden
SG	Singapore
SH	Saint Helena
SI	Slovenia
SJ	Svalbard and Jan Mayen
SK	Slovakia
SL	Sierra Leone
SM	San Marino
SN	Senegal
SO	Somalia
SR	Suriname
ST	Sao Tome and Principe
SV	El Salvador
SY	Syrian Arab Republic
SZ	Swaziland
TC	Turks and Caicos Islands
TD	Chad
TF	French Southern Territories
TG	Togo
TH	Thailand
TJ	Tajikistan
TK	Tokelau
TM	Turkmenistan
TN	Tunisia
TO	Tonga
TP	East Timor
TR	Turkey
TT	Trinidad and Tobago
TV	Tuvalu
TW	Taiwan
TZ	Tanzania, United Republic of
UA	Ukraine
UG	Uganda
UM	United States Minor Outlying Islands
US	United States
UY	Uruguay
UZ	Uzbekistan
VA	Vatican City State (Holy See)
VC	Saint Vincent and the Grenadines
VE	Venezuela
VG	Virgin Islands (British)
VI	Virgin Islands (U.S.)
VN	Vietnam
VU	Vanuatu
WF	Wallis and Futuna Islands
WS	Samoa
YE	Yemen
YT	Mayotte
YU	Yugoslavia
ZA	South Africa
ZM	Zambia
ZR	Zaire
ZW	Zimbabwe

## Appendix B: Glossary

### Aspect ratio

A ratio which defines the shape of the rectangular picture in a TV. It is the width of the picture relative to the height. A conventional TV picture is 4:3 in aspect ratio.

### Bitstream

The digital form of multichannel audio data (e.g., 5.1-channel) before it is decoded into its various channels.

### Channel, CH

Stereo or multichannel audio consists of "channel" signals. "Stereo" audio consists of left and right channels, while 5.1-channel Dolby Digital consists of six channels (front left, front right, rear left, rear right, center and LFE (Low-Frequency Effect channel), for use with a sub-woofer).

### Chapter

The smallest division on DVD VIDEO. It is a division of a title and similar to a track for Audio CD or Video CD.

### Composite video

A single video signal commonly used in most consumer video products that contains all luminance, color, and synchronization information.

### Dolby Digital (AC3)

A six-channel system consisting of left, center, right, left rear, right rear and LFE (Low-Frequency Effect channel, for use with a sub-woofer) channels. All processing is done in the digital domain. Not all Dolby Digital discs contain six (5.1) channels of information.

### Dolby Surround/Dolby Prologic

Dolby Surround is a five-channel system consisting of left, center, right and left rear, right rear channels. All processing is done in the digital domain.

Dolby Prologic is a four-channel system consisting of left, center, right and rear channels. The single rear channel is usually played through two speakers.

### Downmix

Internal stereo mix of multichannel surround audio by a DVD player. The downmix signals are output from stereo output connectors.

### DTS

A Digital Surround audio encoding format configured with six (5.1) channels, similar to Dolby Digital. It requires a decoder, either in the player or in an external receiver. DTS stands for Digital Theater Systems.

Not all DTS discs contain six (5.1) channels of information.

### Dynamic range

The difference between the loudest and softest sounds.

### Dynamic range compression

The dynamic range compression (DRC) reduces the dynamic range so that you can turn down the volume to avoid disturbing others yet still hear the detail of quiet passages.

### Extension

Several letters at the end of a file name. File name extensions usually follow a period and indicate the type of information stored in the file.

### Finalize

When conducting multisession recording, this means the closing of a session (fixing) by indicating the halting of writing so as to prevent the addition of any more sessions.

### F<sub>s</sub>

See "Sampling frequency."

### ID3 tag

A tag embedded in an MP3 file indicating what song, artist, and album it comes from. You can edit these tags.

### Interlaced scanning

In a conventional video system, a picture is shown on the display monitor in between lines of two halves. The Interlaced scanning system places lines of the second half of the picture in-between lines of the first half of the picture.

### ISO 9660 Format

The most common international standard for the logical format of files and directories on a CD-ROM.

### JPEG

A popular file format for still image compression and storage.

JPEG stands for Joint Photographic Experts Group. There are three sub-types of the JPEG format as follows.

- baseline JPEG: used for digital cameras, the web, etc.
- progressive JPEG: used for the web
- lossless JPEG: an old type, rarely used now

### Letter box

A type of video display for normal (4:3) TV screens. Black bars are shown at the top and bottom of the image to allow playing of a wide-screen (16:9) movie without cutting off any of the image.

### Linear PCM audio

PCM stands for "pulse code modulation." Linear PCM is the usual method for digitally encoding audio without compression, and is used for the audio tracks on DVD VIDEO discs, Audio CDs, etc.

### Menu

Most DVD VIDEO or Video CD/SVCD discs provide a menu, through which users can select desired material, conditions, etc.

**MP3**

MP3 is an audio data compression format, which stands for MPEG-1 Audio Layer 3. Using MP3, you can achieve a data reduction of about 1:10.

**MPEG**

A family of Standards for compressing audio-visual information. "MPEG" standards include MPEG-1, MPEG-2 and MPEG-4. Video CD and MP3 are based on MPEG-1, while DVD is based on MPEG-2. MPEG stands for Moving Picture coding Experts Group.

**MPEG Multichannel**

This feature expands the 5.1 channel audio format recorded on the disc to a 7.1 channel format. The further expansion of the 5.1 channel audio makes it easy for you to reproduce the movie theater experience in your own home.

**Multisession**

A method of adding data to a CD-R/CD-RW in more than one recording session using the Track-At-Once method.

**NTSC (National television system committee)**

A black and white and color television system format used in the U.S.A., Canada, Mexico and Japan.

**Packet Writing**

A method of writing data on a CD-R/CD-RW in small increments. Packets can be of fixed or variable length.

**PAL (Phase Alternation by Line)**

A color television system format used extensively in Western Europe.

**Pan and scan**

A type of video display for normal (4:3) TV screens. The image is zoomed to fill the screen vertically, and the field of view may be panned while the left and/or right sides of the picture are cut off.

**Parental lock**

A DVD function that prevents undesired viewing by children depending on disc content. Ordinarily, a password is required to play back a locked disc. Otherwise, undesirable scenes are automatically skipped or replaced with other pictures.

**PBC**

PBC stands for "Playback control" and is a method of controlling disc play for Video CDs (VCD). You are able to interact with the disc through menus.

**Region code**

Code identifying a geographic region of compatibility for a DVD.

**RGB**

An abbreviation for Red, Green, and Blue. Color monitors and color television sets display different hues by mixing these three colors.

**Sampling frequency**

The rate at which measurements of an audio signal are taken during A/D conversion. The sampling frequency is expressed in samples per second.

**Surround**

An audio system with more than two (left and right) channels, usually including rear channels, etc.

**S-video**

A video signal which improves picture quality over standard composite connections. Used on Super VHS, DVD, high end TV monitors, etc.

**Title**

The largest division on DVD VIDEO.

**Track**

The smallest division on Audio CD, Video CD and SVCD discs.

**Transfer rate**

The rate of transferring digital data. The transfer rate is usually expressed in bits per second. The DVD system uses a variable transfer rate for high efficiency.



## **SAFETY INSTRUCTIONS**

### **“SOME DOS AND DON'TS ON THE SAFE USE OF EQUIPMENT”**

This equipment has been designed and manufactured to meet international safety standards but, like any electrical equipment, care must be taken if you are to obtain the best results and safety is to be assured.

Do read the operating instructions before you attempt to use the equipment.

Do ensure that all electrical connections (including the mains plug, extension leads and interconnections between pieces of equipment) are properly made and in accordance with the manufacturer's instructions. Switch off and withdraw the mains plug when making or changing connections.

Do consult your dealer if you are ever in doubt about the installation, operation or safety of your equipment.

Do be careful with glass panels or doors on equipment.

DON'T continue to operate the equipment if you are in any doubt about it working normally, or if it is damaged in any way—switch off, withdraw the mains plug and consult your dealer.

DON'T remove any fixed cover as this may expose dangerous voltages.

DON'T leave equipment switched on when it is unattended unless it is specifically stated that it is designed for unattended operation or has a standby mode.

Switch off using the switch on the equipment and make sure that your family know how to do this.

Special arrangements may need to be made for infirm or handicapped people.

DON'T use equipment such as personal stereos or radios so that you are distracted from the requirements of traffic safety. It is illegal to watch television whilst driving.

DON'T listen to headphones at high volume as such use can permanently damage your hearing.

DON'T obstruct the ventilation of the equipment, for example with curtains or soft furnishings.

Overheating will cause damage and shorten the life of the equipment.

DON'T use makeshift stands and NEVER fix legs with wood screws — to ensure complete safety always fit the manufacturer's approved stand or legs with the fixings provided according to the instructions.

DON'T allow electrical equipment to be exposed to rain or moisture.

ABOVE ALL

- NEVER let anyone, especially children, push anything into holes, slots or any other opening in the case -this could result in a fatal electrical shock.;
- NEVER guess or take chances with electrical equipment of any kind -it is better to be safe than sorry!

**JVC**  
VICTOR COMPANY OF JAPAN, LIMITED

## **ENGLISH**

### **About the VIDEO SIGNAL SELECTOR**

When you connect any one of the AV (SCART) connector, the VIDEO output or the S-VIDEO output of the unit to a TV, you need to appropriately set the COMP./RGB - Y/C switch (VIDEO SIGNAL SELECTOR) on the rear panel of the unit.

For details, refer to pages 6 and 7 of the INSTRUCTIONS.

#### **IMPORTANT!**

Note that you must change the switch position while the unit power is off (on standby). Otherwise, the changed setting is not effective.

## **DEUTSCH**

### **Zum VIDEO SIGNAL SELECTOR**

Wenn Sie eine der Buchsen AV (SCART), VIDEO-Ausgang oder S-VIDEO-Ausgang des Geräts mit einem Fernsehgerät verbinden, müssen Sie auch den Schalter COMP./RGB-Y/C (VIDEO SIGNAL SELECTOR) an der Geräterückwand entsprechend einstellen.

Näheres hierzu finden Sie auf den Seiten 6 und 7 der ANLEITUNG.

#### **WICHTIG!**

Bitte beachten Sie, daß Sie die Schalterposition ändern müssen, während das Gerät ausgeschaltet ist (im Bereitschaftszustand). Die veränderte Einstellung ist sonst nicht wirksam.

## **FRANÇAIS**

### **A propos du VIDEO SIGNAL SELECTOR**

Quand le connecteur AV (SCART), la sortie VIDEO ou la sortie S-VIDEO de l'appareil est raccordé à un téléviseur, le commutateur COMP./RGB - Y/C (VIDEO SIGNAL SELECTOR) correct du panneau arrière de l'appareil doit être réglé.

Pour les détails, voir les pages 6 et 7 du MANUEL D'INSTRUCTIONS.

#### **IMPORTANT!**

Noter que la position du commutateur doit être modifiée quand l'appareil est hors tension (en attente). Sinon le réglage ne prendra pas effet.

## **NEDERLANDS**

### **Betreffende de VIDEO SIGNAL SELECTOR schakelaar**

Wanneer u de AV (SCART) aansluiting, de VIDEO uitgang of de S-VIDEO uitgang van het apparaat met een TV verbindt, dient u de COMP./RGB - Y/C schakelaar (VIDEO SIGNAL SELECTOR) op het achterpaneel van het apparaat in de juiste stand te zetten.

Zie blz. 6 en 7 van de GEBRUIKSAANWIJZING voor nadere bijzonderheden.

#### **BELANGRIJK!**

Verzet de schakelaar terwijl het apparaat is uitgeschakeld (ruststand). Anders zal de wijziging van de instelling niet geldig zijn.

## **ESPAÑOL**

### **Observación sobre el selector VIDEO SIGNAL SELECTOR**

Cuando conecte a un televisor el conector de audio-vídeo (SCART), la salida VIDEO o la salida S-VIDEO de la unidad, deberá ajustar correctamente el selector COMP./RGB - Y/C (VIDEO SIGNAL SELECTOR) del panel posterior de la unidad.

Para encontrar más detalles al respecto, consulte las páginas 6 y 7 del MANUAL DE INSTRUCCIONES.

#### **¡IMPORTANTE!**

Tenga presente que deberá cambiar la posición del selector mientras la alimentación de la unidad esté desconectada (en estado de espera). De lo contrario, el ajuste cambiado no tendrá efectividad.

## **ITALIANO**

### **Nota su VIDEO SIGNAL SELECTOR**

Quando si collega il connettore AV (SCART), l'uscita VIDEO o l'uscita S-VIDEO dell'apparecchio ad un televisore, è necessario regolare appropriatamente l'interruttore COMP./RGB - Y/C (VIDEO SIGNAL SELECTOR) situato sul pannello posteriore dell'apparecchio.

Per i dettagli, vedere le pagine 6 e 7 delle ISTRUZIONI PER L'USO.

#### **IMPORTANTE!**

Notare che si deve cambiare la posizione dell'interruttore mentre l'apparecchio è spento (attesa accensione), altrimenti la regolazione effettuata non ha effetto.

## **SVENSKA**

### **Om väljaren VIDEO SIGNAL SELECTOR**

När du ansluter mellan AV-uttaget (SCART), VIDEO-utgången eller S-VIDEO-utgången på denna apparat och en TV-mottagare, måste du ställa in omkopplaren för COMP./RGB - Y/C (VIDEO SIGNAL SELECTOR) på baksidan av denna apparat korrekt.

För ytterligare upplysningar hänvisas till sidorna 6 och 7 i BRUKSANVISNINGEN.

#### **VIKTIGT!**

Observera att du måste ändra omkopplarens läge medan apparaten är avstängd (i beredskapsläge). Annars utförs inte omkopplingen.

## **SUOMI**

### **Kytkimestä VIDEO SIGNAL SELECTOR**

Kun liitetään jokin AV (SCART) -liittimistä, laitteen VIDEO-lähtö tai S-VIDEO -lähtö TV-vastaanottimeen, on säädettävä oikein laitteen takana oleva COMP./RGB-Y/C -kytkin (VIDEO SIGNAL SELECTOR).

Katso tarkemmat tiedot KÄYTTÖOHJEEN sivuilta 6 ja 7.

#### **Tärkeää!**

Huomaa, että kytkimen asento on muutettava laitteen virran ollessa katkaistuna (tai valmiustilassa). Muuten muutettu säätö ei tule voimaan.

## **DANSK**

### **Om videosignalvælgeren (VIDEO SIGNAL SELECTOR)**

Når et AV (SCART)-stik, VIDEO-udgangen eller S-VIDEO-udgangen på apparatet forbindes til en fjernsyn, skal COMP./RGB - Y/C-knappen (VIDEO SIGNAL SELECTOR) på bagsiden først sættes i den rigtige stilling.

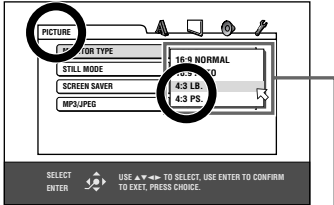
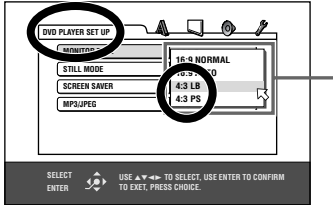
Vi henviser til side 6 og 7 i BRUGSVEJLEDNINGEN.

#### **VIGTIGT!**

Bemærk, at det er nødvendigt at ændre knappens stilling, mens der er slukket for apparatet (i standby). I modsat fald vil den ændrede indstilling ikke være effektiv.

# ERRATA

XV-N5SL

Page	Part	Error	Correction
13	In the step 3	 <p>The screenshot shows the 'PICTURE' menu with options: PICTURE TYPE (16:9 NORMAL), STILL MODE (10:7), SCREEN SAVER (4:3 LB, 4:3 PS), and MP3/JPEG. The 'PICTURE' title and the '4:3 PS' option are circled in black.</p>	 <p>The screenshot shows the 'DVD PLAYER SET UP' menu with options: DVD/VIDEO (16:9 NORMAL), STILL MODE (10:7), SCREEN SAVER (4:3 LB, 4:3 PS), and MP3/JPEG. The 'DVD PLAYER SET UP' title and the '4:3 PS' option are circled in black.</p>
52	In “Setting options”	<ul style="list-style-type: none"> <li>• <b><u>DOLBY PROLOGIC</u></b> Should be selected when listening to multichannel surround audio when the unit’s analog AUDIO OUT terminals are connected to a surround decoder.</li> </ul>	<ul style="list-style-type: none"> <li>• <b><u>DOLBY SURROUND</u></b> Should be selected when listening to multichannel surround audio when the unit’s analog AUDIO OUT terminals are connected to a surround decoder.</li> </ul>

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