JVC



DVD VIDEO PLAYER XV-N30BK/XV-N33SL/	Before operation	2
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VIDEO" DIGITAL DOLBY JD-PHONIC DIGITAL OUT	Additional information	26
INSTRUCTIONS		

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 - 0/| button!

Disconnect the mains plug to shut the power off completely. The O/I button in any position does not disconnect the mains line. The power can be remote controlled.

IMPORTANT FOR LASER PRODUCTS

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

CAUTION : Visible and invisible	ADVARSEL : Synlig og usynlig	VARNING : Synlig och	VARO : Avattaessa ja suojalukitus
			ohitettuna tai viallisena olet alttiina.
			näkyvälle ja näkymättömälle
AVOID DIRECT EXPOSURE TO	Undgå direkte eksponering til	urkopplad. Betrakta ej	lasersäteilylle. Vältä säteen
BEAM. (e)	stråling. (d)	strålen. (s)	kohdistumista suoraan itseesi. (f)

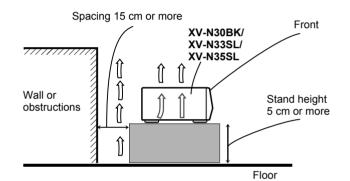
CAUTION

- 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.



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Supplied accessories

Check that you have all the following accessories supplied to you. If anything is missing, consult your dealer immediately.

- Audio/video cable (Yellow/White/Red) (× 1)
- Remote control unit (× 1)
- R6P(SUM-3)/AA(15F) battery (× 2)

About this manual

- The display window information and OSD (On Screen Display) menu items are put in brackets [] in the operation procedures.
- Usable disc(s) for each operation/function is (are) referred to by the icons:



Precautions

Notes on the power cord

- When you are away on travel or otherwise for an extended period of time, remove the plug from the wall outlet. A small amount of power (2.0W) 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.
- Do not handle the power cord with wet hands!

Avoid moisture, water and dust

- Do not place the unit in moist or dusty places.
- If water gets inside the unit, turn off the power and remove the plug from the wall outlet, then consult your dealer. Using the unit in this state may cause a fire or electrical shock.

Avoid high temperatures

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

Notes on installation

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

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 objects, such as wires, hairpins, coins. etc. into the unit.
- Do not block the vents. Blocking the vents may damage the unit.

To clean the cabinet

- . Use a soft cloth. 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.

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About discs

Playable disc types

Discs with the following marks can be played back on the unit.



The DVD Logo is a trademark.

- The unit can also play back the following discs:
- DVD-R, DVD-RW and +RW discs written in the DVD VIDEO format and finalized
- CD-R and CD-RW discs written in the SVCD, Video CD or Audio CD format and finalized
- CD-R and CD-RW discs written in MP3 in accordance with the "ISO 9660" format (see page 19 for details).

NOTE

If a disc gets dirty, scratched or warped, or due to the disc characteristics or recording conditions, it may take considerable time for the unit to read the content, or the unit may not be able to play back such discs.

The unit can play back audio signals recorded in MIX-MODE CD, CD-G, CD-EXTRA and CD TEXT.

Region code of DVD VIDEO

This unit can play back DVD VIDEO discs whose region code numbers include "2."

Examples of playable DVD VIDEO discs:



NOTE

The unit's region code is printed on the rear of the unit.

Color system format

This unit accommodates the PAL system, and also can play back discs recorded with NTSC system whose Region Code numbers include "2."

Note that the NTSC video signal on a disc is converted to a PAL signal and output.

Unplayable discs

The unit does not play back discs listed below. If you try to play back these discs, noise may generate causing damage to speakers.

- DVD-RW discs written in the VR format
- DVD-ROM, DVD-RAM, DVD AUDIO, CD-ROM, PHOTO CD, SACD
- In addition, the unit does not play:
- Unfinalized discs
- Discs of irregular shape or discs with tape, seals or paste on either the label side or playback side. Playing back these discs may damage the unit.

Digital audio formats

The unit supports the following digital audio formats (see page 31 "Glossary" for descriptions of each audio format):

Linear PCM, MPEG Multichannel, Dolby Digital, DTS (Digital Theater Systems)

NOTES

- Depending on the unit's [DIGITAL AUDIO OUTPUT] setting, digital audio signals may not be output as they are recorded on the disc. See "DIGITAL AUDIO OUTPUT" on page 23 for details.
- To play back DTS-encoded DVD VIDEO or DTS-encoded Audio CD discs correctly, connect the unit to an amplifier with a built-in DTS decoder. If the unit is connected to an amplifier without a DTS decoder, playback sound will be distorted.

Notes on discs

- With some DVD VIDEO discs, the unit starts playback automatically after inserting the disc.
- The image may be sometimes poor or noisy due to defects in the disc itself.
- With some discs, operations described in this manual may not be possible.

Care and handling of discs

If a disc gets dirty, dusty, scratched or warped, playback sound and picture may be deteriorated. Take proper precautions when handling discs.

Handling

- Do not touch the surface of the disc.
- Do not damage, stick paper to, or use any adhesive on either the label side or playback side.

Storing discs

- Keep discs 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 where the humidity or temperature is high. Avoid leaving discs in a car!

Cleaning discs

• 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.

Notes on copyright

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

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Connections

Before using the unit, connect the unit to a TV and/or amplifier.

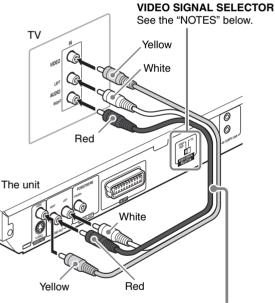
Before making connections

- 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.
- 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.

Connecting to a TV

The following sections A to C describe TV connections where only a TV is connected to the unit so that you will hear audio from the TV.

A Connecting to a conventional TV



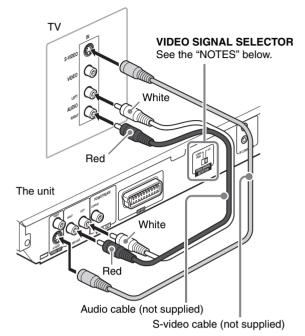
Audio/video cable (supplied)

NOTES

- In this connection, set the VIDEO SIGNAL SELECTOR to "COMP./RGB."
- Do not connect multiple devices using multiple connectors.
 If your TV has a monaural audio input instead of stereo, you
- If your I'v has a monaural audio input instead of stereo, you need to use an optional audio cable which converts stereo audio output to monaural.

B Connecting to a TV 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.

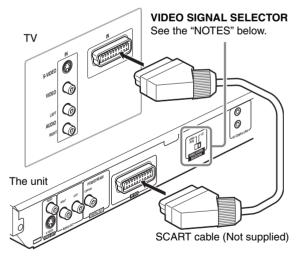


NOTES

- In this connection, set the VIDEO SIGNAL SELECTOR to "Y/C."
- Do not connect multiple devices using multiple connectors.

$\ensuremath{\mathbb{C}}$ 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.



NOTES

- In this connection, you need to set the VIDEO SIGNAL SELECTOR correctly according to your TV. See page 5 for details.
- Do not connect multiple devices using multiple connectors.

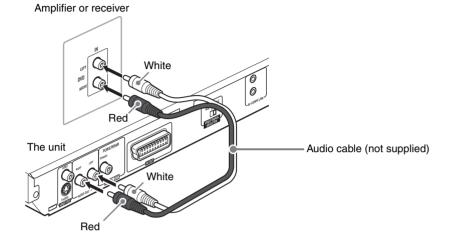
Connecting to optional audio equipment

Connecting to a stereo audio amplifier/receiver

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



Sound recorded on DTS-encoded DVD VIDEO or DTS-encoded Audio CD discs are not output from the analog (AUDIO OUT LEFT/RIGHT) jacks of the unit.

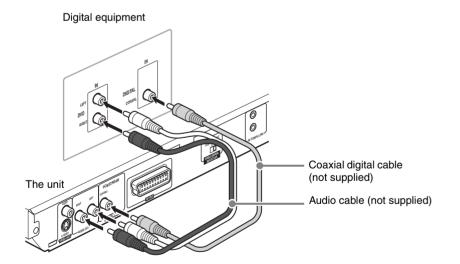


Connecting to a digital audio device

You can enjoy sound of enhanced quality by connecting the unit's DIGITAL OUT (COAXIAL) jack to a digital input of an amplifier, etc., using a coaxial digital cable. The digital audio signal on a disc will be transferred directly from the unit. If the connected digital audio equipment is a Dolby Digital or DTS decoder or an amplifier with a built-in decoder, you can enjoy high-quality surround sound.

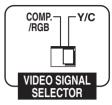
NOTES

- It is not recommended to use the digital jacks for dubbing. When recording the sounds (DVD VIDEO, SVCD, Video CD or Audio CD) played back on the unit, record them through the analog jacks.
- Depending on the disc, no signal may be output from the DIGITAL OUT. Make an analog connection in this case.
- Set [DIGITAL AUDIO OUTPUT] in the [AUDIO] preference display correctly according to the connected digital audio equipment. If setting made for [DIGITAL AUDIO OUTPUT] is incorrect, loud noise may be generated causing damage to the speakers (see page 23).



Setting the VIDEO SIGNAL SELECTOR

When you connect the unit to a TV with the SCART connector, set the VIDEO SIGNAL SELECTOR correctly according to your TV.



- If your TV only accommodates the composite video signal, set the selector to "COMP./RGB."
- If your TV accommodates Y/C signals, set the selector to "Y/C" so that you can enjoy better-quality pictures.
- If your TV accommodates RGB signals, set the VIDEO SIGNAL SELECTOR to "COMP./RGB."

Connecting the power cord

When all the audio/video connections have been made, connect the AC power plug to the wall outlet. Make sure that the plugs are inserted firmly.

The STANDBY indicator lights in red.



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

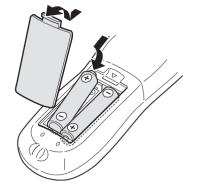


- Do not alter, twist or pull the power cord, or put anything heavy on it, which may cause fire, electric shock, or other accidents.
- If the cord is damaged, consult a dealer and have the power cord replaced with a new one.

Using the remote control unit

To install batteries

Open the compartment cover, and place the two supplied R6P(SUM-3)/AA(15F) batteries in the remote control unit according to the polarity markings ("+" and "-") inside the compartment. Then replace the cover.



The batteries will last about six months with normal use. If the functions of the remote control unit become erratic, replace the batteries.

Precautions of the safe use of batteries

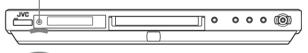
Observe the following precautions for the safe use of batteries. If they are used improperly their lives will be shortened, they may burst or their contents may leak.

- Remove the batteries from the remote control unit 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

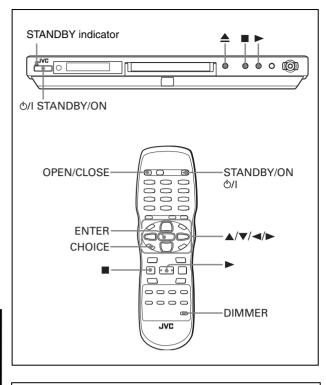
Point the top of the remote control unit toward the remote sensor as directly as possible. If you operate it from a diagonal position, the operating range (approx. 5 m) may be shorter.

Remote sensor









About invalid operation icon

When you press a button, and if the unit does not accept its operation, (appears on your TV screen. Operations are occasionally unacceptable even if (b) is not displayed. Note that some operations may not be accepted. For example, some discs may not allow rapid advance/reverse or slow motion playback.

Turning on/off the unit

Press STANDBY/ON o/| on the remote control unit or press o/| STANDBY/ON on the front panel.

The STANDBY indicator on the front panel, which lights in red during standby, goes off.

The opening display appears on the TV screen, and 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
- CLOSE
- NO DISC

NOTE

Even if you 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

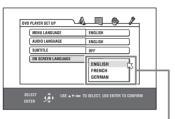
When you turn on the unit for the first time after purchase, the following message appears on the TV screen.

EXECUTE DVD PLAYER SETUP? - BASIC PICTURE/AUDIO SETTING YES - PRESS ENTER NO - CANCEL

You can set the display language, TV monitor type and digital output before using the unit, by following the procedure below.

1 Press ENTER.

The first page of the DVD PLAYER SET UP display appears. The pull-down menu of the [ON SCREEN LANGUAGE] is already open.



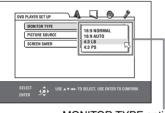
ON SCREEN LANGUAGE options

2 Press $\blacktriangle/\blacksquare$ to select the 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.



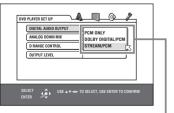
MONITOR TYPE options

4 Press $\blacktriangle/\blacksquare$ to select the desired monitor type.

For a normal (conventional) TV, select [4:3 LB] or [4:3 PS]. For a wide-screen TV, select [16:9 NORMAL] or [16:9 AUTO] (see page 22).

5 Press ENTER.

The third page is shown, in which the pull-down menu of the [DIGITAL AUDIO OUTPUT] is already open.



DIGITAL AUDIO OUTPUT options

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

Set this item correctly when you connect the unit to an external surround decoder or D/A converter. (If you do not connect the unit to such a device, you do not have to set this item.)

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

7 Press ENTER.

The TV screen returns to the opening display.

To bring up the DVD PLAYER SET UP display later

Press CHOICE for a few seconds until the DVD PLAYER SET UP display appears.

To change the brightness of the display window

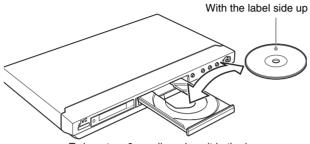
Press DIMMER.

You can select the display window brightness from three levels.

Basic playback



- **1** Press \triangleq to open the disc tray.
- **2** Place a disc in the disc tray.



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

3 Press ►.

The unit starts playback from the beginning.

If a menu is shown on the TV screen

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

For DVD VIDEO

1 Press $\blacktriangle/ \bigtriangledown / \checkmark / \blacklozenge$ to select a desired item.

2 Press ENTER.

The unit starts playback of the selected item.

For SVCD/Video CD

Press the numeric buttons to select a desired item. The unit starts playback of the selected item.

NOTES

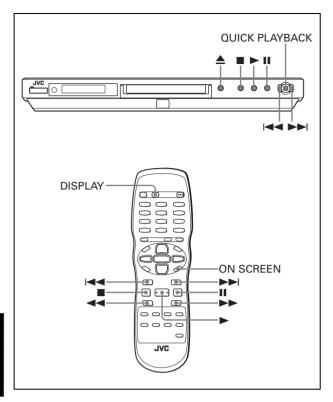
- Do not insert an unplayable disc. (See page 2.)
- When inserting a disc on the disc tray, be sure to position the disc inside the recess. Otherwise, the disc may be damaged when the disc tray is closed, or you may not be able to remove the disc from the unit.

About PBC (Playback Control)

Some SVCD/Video CD discs support the PBC function. The PBC function allows you to enjoy menu-driven operation and high-resolution still images which have a resolution four times greater than moving pictures.

- To play a PBC-compatible SVCD/Video CD disc without activating the PBC function, press the numeric buttons instead of ► to start playback.
- To activate the PBC function again, 1) press TOP MENU or MENU, or

2) press ■ to stop playback, then press ►.

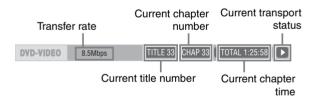


To check the playback status

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

Press ON SCREEN.

Example: for DVD VIDEO



Note that pressing ON SCREEN again brings up the menu bar under the status bar, from which you can access various functions. See page 17 for details about the menu bar.

To turn off the status bar

Press ON SCREEN repeatedly until the status bar goes off.

To change the display window contents

Press DISPLAY.

Example: for DVD VIDEO

Each time you press DISPLAY, the total time display and the title/chapter number display appear alternately.

	TITLE CHAP
Total time	Title number
	Chapter number

To stop playback completely

Press ∎.

Hint

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

To stop playback temporarily

Press II.

To resume playback, press ►. (See the following item.)

About On-screen guide icons

You may see the following icons displayed over the picture. They have the following meanings.

- : Appears at the beginning of a scene recorded from multiple angles (see page 15).
- ())): Appears at the beginning of a scene recorded with multiple audio languages (see page 15).
- : Appears at the beginning of a scene recorded with multiple subtitle languages (see page 15).

Resuming playback



The unit can memorize the position on a disc where you interrupted playback, and resume playback from that position later.

There are three resume modes; ON, OFF and DISC RESUME.

The mode is initially set to ON when you purchased the unit. • You can select the mode using the preference display (see page 23).

When the resume mode is "ON"

When you press ■, the unit stops playback and memorizes the interrupted position. The TV screen shows [RESUME STOP] and the [RESUME] indicator lights up in the display window. The memory of the interrupted position is not cleared if you turn off the unit.

When you turn off the unit after setting the resume function, simply press ►. The unit is turned on, and playback starts from the interrupted position. If you turn on the unit by pressing O/ISTANDBY/ON then press ►, playback starts from the beginning of the disc.

Note that the memory is cleared if you open the disc tray.

When the resume mode is "DISC RESUME"

When you press , the unit stops playback and memorizes the interrupted position. The TV screen shows [RESUME STOP] and the [RESUME] indicator lights up in the display window.

The memory of the interrupted position is not cleared if you open the disc tray or turn off the unit.

Hint

The unit memorizes interrupted positions for the last 30 discs played. Storing a new interrupted position will erase the interrupted position stored for the first disc.

To clear the memory

Press \blacksquare while the disc is stopped.

To resume playback

When the resume mode is "ON"

While the disc you interrupted playback is still on the disc tray, press \blacktriangleright .

The unit resumes playback from the position where playback was interrupted. The TV screen shows [RESUME PLAY].

To play back from the beginning

Press ■ before pressing ► to start playback.

When the resume mode is "DISC RESUME"

Press ▲ to insert a disc for which the unit has stored an interrupted position.

The TV screen shows [RESUME STOP].

2 Press ►.

The TV screen shows [RESUME PLAY] and the unit resumes playback from the position where playback was interrupted.

To play back from the beginning

After inserting the disc, press \blacksquare before pressing \triangleright to start playback.

NOTES

- If you change the [RESUME] setting from [DISC RESUME] to [OFF] or [ON], you cannot resume playback of a disc whose "resuming" position is stored. However, when you again set [RESUME] to [DISC RESUME], you will then be able to resume playback of the disc.
- If you interrupt the playback of a disc for which an interrupted position has already been stored, the memory will be updated with the new interrupted position.
- 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 inserted with the same side down.
- When the unit memorizes an interrupted point for a disc, it also memorizes Audio, Subtitle and Angle settings.
- The unit may not resume playback exactly from the interrupted point. In the case of an SVCD/Video CD disc with PBC function, the unit may resume playback from a point slightly earlier or later than the point where playback was interrupted.

Various speed playback

x1.5 Quick Playback with sound



During playback, press QUICK PLAYBACK on the unit.

The lamp on the QUICK PLAYBACK button turns on, and the disc is played back at about 1.5 times normal speed. The sound is not muted, and the subtitle does not go off.

To return to the normal playback

Press QUICK PLAYBACK again. The lamp on the button goes off.

NOTES

- x1.5 Quick Playback can also be achieved by pressing ►► once. (See next section.)
- At the x1.5 Quick Playback mode, the digital sound is output in stereo linear PCM format. Note that the sound of a DTSencoded DVD VIDEO disc is not output.
- Depending on a disc, the sound may not be in tune, or the sound quality may alter during the x1.5 Quick Playback mode.

To advance or reverse playback rapidly while monitoring



During playback, press $\rightarrow \rightarrow$ or $\triangleleft \triangleleft$ on the remote control unit.

You can select from 1.5 times, 5 times, 20 times and 60 times normal speed. Pressing ► returns the unit to normal playback.

During playback, hold down $\rightarrow \rightarrow$ or $\mid \blacktriangleleft \triangleleft$.

Playback is advanced or reversed at 5 times normal speed.

NOTE

During rapid playback, the sound will be muted except when playing an Audio CD, and when playing a DVD VIDEO or Video CD at 1.5 times normal speed.

To advance a still picture frame by frame



While paused, press II.

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

Pressing ► returns to normal playback.

To play back in slow motion



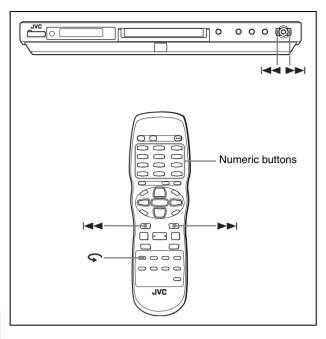
You can select from 1/32 times, 1/16 times, 1/4 times and 1/2 times normal speed.

During playback, press II, then press ►► (to play forward slow motion), or ◄◄ (to play reverse slow motion, for DVD VIDEO disc only).

Pressing \blacktriangleright returns to normal playback.

NOTES

- During slow motion playback, the sound will be muted.
- Reverse slow motion playback is not possible for an SVCD and Video CD.



To replay the previous scenes (One touch replay function)

DVD VIDE0

During DVD VIDEO playback, press Ϛ.

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

NOTES

- This function works only within the same title, though it works between chapters.
- This function may not work with some DVD VIDEO discs.

Locating the beginning of a scene or song



For DVD VIDEO: During playback, you can skip a chapter or title, depending on the disc configuration.

For SVCD/Video CD: During playback without PBC function, you can skip a track.

For Audio CD: During playback or while in stop mode, you can skip a track.

To skip forward, press ►►.

To skip backward, press ◄◄.

Using the numeric buttons

For DVD VIDEO/Audio CD: During playback or while in stop mode

For SVCD/Video CD: During playback without PBC function or while in stop mode

Press the numeric buttons to specify the number.

To select 5: press 5. To select 23: press +10, +10, then 3. To select 40: press +10, +10, +10, then 10.

The unit starts playback from the beginning of the selection.

NOTES

• 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
	SVCD/Video CD/Audio CD	track
During playback	DVD VIDEO	chapter
	SVCD/Video CD/Audio CD	track

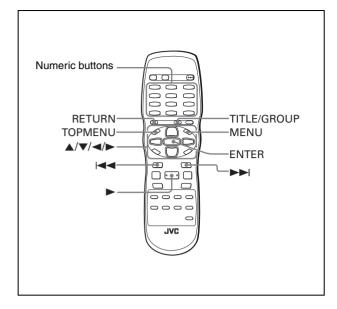
 During DVD VIDEO playback, if a menu is shown on the TV screen, the numeric buttons may be used for selecting an item in the menu.

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.

When the screen saver function is activated, the TV screen gets darker.

Pressing any buttons will release the screen saver function.



Playing from a specific position

Locating a desired scene from the DVD menu

DVD VIDE0

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.

1 While a DVD VIDEO disc is inserted, press TOP MENU or MENU.

The menu appears on the TV screen.

2 Press ▲/▼/◀/► to select a desired item, then press ENTER.

The unit starts playback of the selected item.

Hints

- Some DVD VIDEO discs may also have a different menu which appears when MENU is pressed.
- See the instructions of each DVD VIDEO disc for its particular menu.
- With some discs, you can select items by entering the corresponding number using the numeric buttons, which may cause the unit to automatically start playback.

NOTE

The MENU button does not work while stopped.

Locating a desired scene from the menu of a SVCD/Video CD with PBC

Super Video

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

- 1 In stop mode, press ► or TOP MENU. A disc menu appears on the TV screen.
- **2** Press the numeric buttons to select the desired item.

To select 5: press 5. To select 23: press +10, +10, then 3. To select 40: press +10, +10, +10, then 10.

The unit starts playback of the selected item. To return to the menu, press RETURN.

Hint

If something like [NEXT] or [PREVIOUS] appears on the TV screen, pressing ►►I advances to the next page, and pressing I◄ returns to the previous page.

Specifying a desired title



1 During playback, press TITLE/GROUP. [--] is shown in the title display area of the display window.

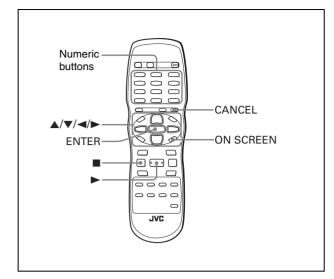
2 Press the numeric buttons to specify a title to be played.

To select 5: press 5. To select 23: press +10, +10, then 3. To select 40: press +10, +10, +10, then 10.

The unit starts playback from the specified title.

NOTE

This function may not work with some DVD VIDEO discs.



Locating a desired position in the current title or track (Time search)



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 SVCD/Video CD/Audio CD).

- For DVD VIDEO/Audio CD: During playback or while in stop mode
- For SVCD/Video CD: In any condition except SVCD/Video CD playback with PBC

1 Press ON SCREEN twice.

The menu bar appears on the TV screen.

2 Press ◄/► to move ↓ to environment to environme

The pull-down menu for entering time appears.

Screen example for DVD VIDEO

DVD-VIDEO	8.5Mbps	TITLE 33 CHAP 33 TOTAL 1:25:58
TIME COF	F	AP. → ① 1/3 . 1/5 . 4/3
	TIME _:	<u>:</u>

Screen example for Audio CD

CD		TRACK 33 TII	ME 25:58 🕨
TIME 🖒 OFF	PROG. RND.		
	TIME _:		

3 Press the numeric buttons (0 to 9) to enter the desired time.

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

Example (for DVD VIDEO)

To play back from 2(H):34(M):00(S) Press 2, 3, then 4.



Example (for SVCD/Video CD/Audio CD) To play back from 23(M):40(S) Press 2, 3, then 4.

TIME 23:4_

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

Press ◄ repeatedly to move back to the digit where you entered a wrong number, and reenter the correct one.

4 Press ENTER.

The unit starts playback from the specified time.

To dismiss the menu bar

Press ON SCREEN.

Hint

"10" and "+10" buttons are not used with this function.

NOTES

- Some DVD VIDEO discs do not contain time information, and the time search function cannot be used.
- The time search function cannot be used during program playback.

Changing the playback order

To play back in a specific order (Program play)



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

- **1** In stop mode, press ON SCREEN twice. The menu bar appears on the TV screen.
- 2 Press ◄/► to move
 ↓ to PROG... Screen example for Audio CD

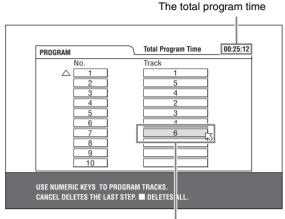
CD	TRACK 33	TIME	25:58	

3 Press ENTER.

The program table appears. The PROG indicator lights up in the display window.

4 Press the numeric buttons to specify tracks in the desired order.

To select 5: press 5. To select 23: press +10, +10, then 3. To select 40: press +10, +10, +10, then 10.



Selected track number

To correct the program

Press $\blacktriangle/\blacksquare$ to move \bigtriangledown to the track to be corrected, then press CANCEL. The track is erased and the subsequent programmed tracks move up.

Pressing ■ clears all the programmed tracks.

5 Press ► to start program playback.

With an Audio CD disc, the program table remains on the TV screen during program playback. (Pressing ON SCREEN 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.

• During program playback, you cannot edit the program contents.

To check the program contents

During playback, press $\blacksquare.$ 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 SVCD/Video CD playback, you can check the program contents via the menu bar.

To stop program playback

Press ∎.

To clear the program

While stopped and the program table is shown, press .

To exit the program mode

After clearing the program, press ON SCREEN.

NOTE

When the disc tray is opened or the unit is turned off, the program is cleared.

To play back in random order (Random play)



- **1** In stop mode, press ON SCREEN twice. The menu bar appears on the TV screen.
- 2 Press ◄/► to move
 ↓ to RND...
 Screen example for Audio CD

CD		TRACK 33	TIME	25:58	1
TIME COFF	PROG. RND.				
	Ŵ				

3 Press ENTER.

The unit starts random playback.

With an SVCD/Video CD disc, the menu bar is automatically dismissed.

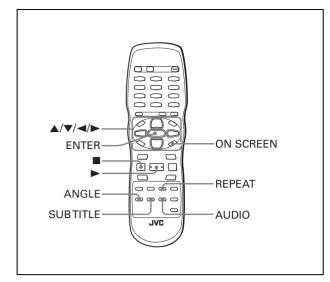
During random playback, the RND indicator lights up in the display window.

After playing all tracks of the disc, the unit stops the disc and exits the random playback mode.

To stop and quit random playback

Press ■. The unit stops playback and exits the random playback mode.

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Repeat playback

To repeat the current selection or all tracks

DVD Super	Video	Audio
VIDE0 VCD	CD	CD

For DVD VIDEO: During playback

For SVCD/Video CD/Audio CD: In any condition except SVCD/ Video CD playback with PBC

Press REPEAT.

If you press REPEAT in stop mode, press ► to start playback.

Each time you press REPEAT, the repeat mode cycles among All repeat, Repeat 1 and off.

The indication on the display window shows the selected repeat mode.

: Repeats the current title for DVD VIDEO or all tracks for SVCD/Video CD/Audio CD.

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

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. (Repeat mode example on the TV screen.)



To stop repeat playback

Press

When a DVD VIDEO disc is set, the unit stops playback and quits the repeat mode.

When an SVCD, Video CD or Audio CD 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.

Hint

When the program playback mode is active with an SVCD, Video CD or Audio CD, the repeat mode changes in the same manner. Note, however, that in the " " " mode the unit repeats all the programmed tracks instead of all tracks on the disc.

To repeat a desired part (A-B repeat playback)



First make sure:

- The unit is in playback mode except SVCD/Video CD playback with PBC.
- **1** Press ON SCREEN twice. The menu bar appears on the TV screen.
- 2 Press ◄/► to move ▷ to ゜, then press ENTER.

The pull-down menu for repeat mode selection appears.

- **3** Press ▲/▼ to select [A-B].
- **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-

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

The repeat icon shows <u>A-B</u>. The unit locates "A" and starts repeat playback between "A" and "B."

The [] indicator lights in the display window.

To quit A-B repeat playback

Press </br>

Image: Press

Image: Press

NOTE

The A and B points must be set in the same title/chapter/track.

Changing the language, sound and scene angle

To select the subtitle language (SUBTITLE)



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

Hint

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]).

1 During playback, press SUBTITLE.

The subtitle selection window appears on the TV screen.

···· 1/3	
Δ	
ENGLISH	Д
\checkmark	<u>h</u> s

2 Press $\blacktriangle/\blacksquare$ or SUBTITLE to select the subtitle.

Each time you press $\blacktriangle/ \bigtriangledown$ or SUBTITLE, the subtitle language changes.

3 Press ENTER.

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

NOTES

- An SVCD disc can have up to four subtitles. Pressing ▲/▼ cycles through those channels regardless of whether the subtitles are recorded or not.
- The subtitle selection window will automatically disappear if you do not change the subtitle for several seconds.
- For DVD VIDEO, the selected language may be abbreviated on the TV screen. See "Appendix B: Table of languages and their abbreviations" on page 30.

To change the audio language or sound (AUDIO)



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

Hint

At the beginning of the part where multiple audio tracks are recorded, \bigcirc appears on the TV screen (except when the [ON SCREEN GUIDE] preference is set to [OFF]).

1 During playback, press AUDIO.

The audio selection window appears on the TV screen.



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

Each time you press $\blacktriangle/ \blacksquare$ or AUDIO, the audio changes.

For DVD VIDEO (example)

> 1/3 ENGLISH ↔ 2/3 FRENCH ↔ 3/3 GERMAN ←

For SVCD

→ST1 ←→ ST2 ←→ L-1 ←→ R-1 ←→ L-2 ←→ R-2 ←

For Video CD

→ ST (Stereo) ← L ← R ←

3 Press ENTER.

You can hear the selected audio. The audio selection window is dismissed.

NOTES

- The audio selection window will automatically disappear if you do not change the audio for several seconds.
- For DVD VIDEO, the selected language may be abbreviated on the TV screen. See "Appendix B: Table of languages and their abbreviations" on page 30.

To select a scene angle of DVD VIDEO (ANGLE)



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.

Hint

At the beginning of a "multi-angle" part, appears on the TV screen (except when the [ON SCREEN GUIDE] preference is set to [OFF]).

1 During playback, press ANGLE.

The angle selection window appears on the TV screen.



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

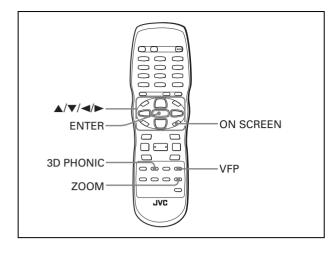
Each time you press \blacktriangle/∇ or ANGLE, the angle changes.

3 Press ENTER.

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

NOTE

The angle selection window will automatically disappear if you do not change the angle for several seconds.



Special picture/sound effect

To zoom in pictures



1 During playback or while paused, press ZOOM.

Pressing ZOOM causes the unit to zoom in on the image. At the top left of the screen, the information for the current magnification appears for about 5 seconds.

Each time you press ZOOM, the magnification is doubled (up to 64 times).

ZOOM x 4



When a picture of a DVD VIDEO disc is viewed on a normal TV screen (4:3, Letter Box), black bars may appear at the top and bottom of the screen. In this case, if you select the "ZOOM \times 1.8" mode, the black bars become almost invisible. When a 1:2.35 or 1:1.85 DVD VIDEO source is played back, however, the black bars are visible on the screen.

2 Press $| \mathbf{V} | |$ to move the zoomed position.

To return to the normal playback

Press ENTER.

NOTE

While zoomed, the picture may look coarse.

To adjust the picture character (VFP)



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

1 During playback, press VFP.

The VFP mode selection window appears on the TV screen.

2 Press \triangleleft by 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 ←→CINEMA ←→USER 1 ←→USER 2 ←

Selected preset



Parameter

[NORMAL]: for watching TV in a general room. [CINEMA]: for watching a movie software in a room with suppressed light.

[USER 1] [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, press ▲/▼ to select a parameter to be edited from the following.

• GAMMA

Adjust this if the neutral color is bright or dark. The brightness of dark and bright portion is maintained. Available range: -4 (darkest) to +4 (brightest)

BRIGHTNESS Adjust this if the picture is bright or dark on the whole. Available range: -16 (darkest) to +16 (brightest)

• CONTRAST

Adjust this if the far and near position is unnatural. Available range: -16 to +16

SATURATION
 Adjust this if the picture is whitish or blackish.
 Available range: -16 (blackest) to +16 (whitest)

• TINT

Adjust this if the appearance of flesh tone is unnatural. Available range: -16 to +16

SHARPNESS

Adjust this if the picture is indistinct. Available range: 0 to +3

• Y DELAY

Adjust this if the picture looks separately/overlapped. Available range: -2 to +2

4 Press ENTER.

A window for setting parameters appears.



Selected parameter

5 Press $\blacktriangle/\blacksquare$ to adjust the level of the

parameter.

The higher value enhances the effect.

6 Press ENTER.

Repeat steps 3 to 6 if you want to set other parameters.

To dismiss the VFP mode selection window

Press VFP.

NOTES

- The window for VFP mode selection and parameter setting disappear if no operation is made for about 10 seconds.
- While zoomed, the VFP function cannot be used.

To simulate surround sound (3D PHONIC)



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

1 During playback, press 3D PHONIC.

The 3D PHONIC window appears on the TV screen.

2 Press \triangleleft to select the desired mode.

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

→ ACTION ↔ DRAMA ↔ THEATER ↔ NONE ◆



Selected effect mode

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 theater.

3 Press $\blacktriangle/\blacksquare$ to adjust the effect level.

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

To dismiss the 3D PHONIC window

Press 3D PHONIC.

NOTES

- 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.
- 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] setting in the [AUDIO] setting display is not available.

Menu bar functions

To bring up the menu bar

1 When a disc is inserted, press ON SCREEN.

A status bar for the type of disc inserted will appear on the TV screen. See page 8 for details about the status bar.

2 Press ON SCREEN again.

A menu bar for the type of disc inserted will appear under the status bar.

(for DVD VIDEO)

DVD-VIDEO	8.5Mbps	TITLE 33 CHAP 33	TOTAL 1:25:58	
		→ m 1/3 m 1/5	P1 1/3	

(for SVCD)

SVCD	TRACK 33 TIME 25:58
TIME COFF	PROG. RND ST1/4

(for Video CD)

VCD	TRACK 33 TIME 25:58
TIME COFF	PROG. RND. OD ST

(for Audio CD)

CD		TRACK 33	TIME	25:58
	PROG. RND.			

To dismiss the menu bar and status bar

Press ON SCREEN.

Basic operation procedure

Press ◄/► to select the icon you want to work with.

The selected icon is pointed by \overline{i} .

2 Press ENTER.

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

NOTES

- A mark or text on the menu icon for the function or mode currently selected is shown in green.

Menu bar functions for DVD VIDEO

TIME Time mode selection

During playback, selects the time mode shown in the display window and in the status bar.

Press ENTER to select the time mode from the following.

- TOTAL: Current title elapsed time
- T.REM: Current title remaining time
- TIME: Current chapter elapsed time
- REM: Current chapter remaining time

C Repeat mode (See also page 14)

Selects the repeat mode during playback.

1. Open the pull-down window.

- 2. Press $\blacktriangle/\blacksquare$ to select the repeat mode from the following.
 - CHAPTER: Current chapter repeat
 - TITLE: Current title repeat
 - A-B: A-B repeat
- OFF: Repeat mode deactivated

3. Press ENTER to make the selected repeat function active.

\bigcirc Time search (See also page 12)

Specifies a time from the beginning of the current title as the point from which to begin playback.

CHAP. → Chapter search

During playback, specifies a desired chapter to be played back from.

- 1. Open the pull-down window.
- 2. Press numeric buttons (0 to 9) to enter a desired chapter number. (For example, to specify "10," press 1, then 0.)
- 3. Press ENTER to begin playback from the specified chapter.

D Audio selection (See also page 15)

During playback, selects the audio language or sound track.

- 1. Open the pull-down window.
- 2. Press $\blacktriangle/\checkmark$ to select a desired audio language or sound track.
- $\ensuremath{\mathsf{3.Press}}$ ENTER to begin playback with the selected audio.

Subtitle selection (See also page 15)

During playback, selects the subtitle language.

- 1. Open the pull-down window.
- 2. Press $\blacktriangle/\blacksquare$ to select a desired subtitle language.
- 3. Press ENTER to begin playback with the selected subtitle.

Angle selection (See also page 15)

During playback, selects a desired scene angle in a multi-angle part.

- 1. Open the pull-down window.
- 2. Press $\blacktriangle/\blacksquare$ to select a scene angle.
- 3. Press ENTER to begin playback with the selected scene angle.

Menu bar functions for SVCD/Video CD/ Audio CD

TIME Time mode selection

Selects the time mode shown in the display window and in the status bar.

Press ENTER to select the time mode from the following.

- TIME: Current track elepsed time
- REM: Current track remaining time (while in stop mode, current track total time)
- TOTAL: Disc elapsed time
- T.REM: Disc remaining time (while in stop mode, disc total time)

C Repeat mode (See also page 14)

Selects the repeat mode.

- 1. Open the pull-down window.
- 2. Press ▲/▼ to select the repeat mode from the following.
 - TRACK: Current track repeat
 - ALL: All track repeat
 - A-B: A-B repeat
 - OFF: Repeat mode deactivated
- 3. Press ENTER to make the selected repeat function active.

\bigcirc **Time search** (See also page 12)

Specifies a time from the beginning of the disc as the point from which to begin playback.

PROG. Program playback (See also pages 12 and 13)

While stopped, specifies the playback order of tracks.



While stopped, activates random playback.

ග

Audio selection (See also page 15)

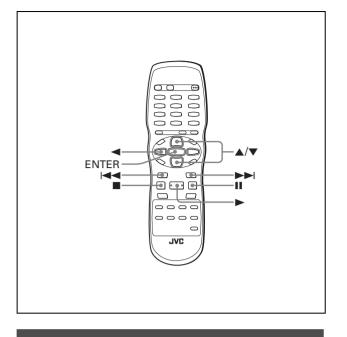
During SVCD/Video CD playback, selects the audio channel(s).

- 1. Open the pull-down window.
- 2. Press ▲/▼ to select a desired audio channel(s).
- 3. Press ENTER to play back with the selected audio channel(s).

Subtitle selection (See also page 15)

During SVCD playback, selects the subtitle.

- 1. Open the pull-down window.
- 2. Press $\blacktriangle/\blacksquare$ to select a desired subtitle.
- 3. Press ENTER to begin playback with the selected subtitle.



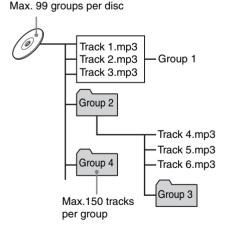
Operations

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

About MP3 discs

On an MP3 disc, each song is recorded as a file (track). Files are sometimes grouped into folders by artists, album, etc.

- Each file is regarded as a track.
- A folder which has one or more files is regarded as a group.
- A folder which does not directly contain any tracks is ignored.Files which do not belong to any folder are grouped into "group
- The unit recognizes up to 150 tracks per group, and up to 99
- The unit recognizes up to 150 tracks per group, and up to 99 groups per disc. If there are files other than MP3 files, they also count in 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.
- We recommend you record your material at a 44.1 kHz sampling rate, using the 128 kbps data transfer rate.

Basic operations

Use the following buttons to control MP3 disc playback.

- ENTER: Starts playback while stopped.
- Starts playback while stopped or paused.
- ■: Stops playback.
- II: Pauses playback.
- I≪</▶►I: Skips back or forward a track during playback. Selects the previous or next track while stopped.

If you press \blacktriangleright during playback, or press \blacksquare to stop playback followed by \blacktriangleright , the unit starts playback from the beginning of the current track.

NOTES

- The unit does not support "packet writing (UDF format)" discs.
- The unit does not support the ID3 tag.
- The unit supports discs recorded with multiple 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.
- You cannot advance or reverse playback by pressing ►► or
- ◄◄, or by holding down ►►I or I◄◄ during MP3 disc playback.

Selecting the desired group and track

When inserting 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.

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

2 Press ▲/▼ to move the bar to a desired group.

On the right column, tracks in the selected group are shown.

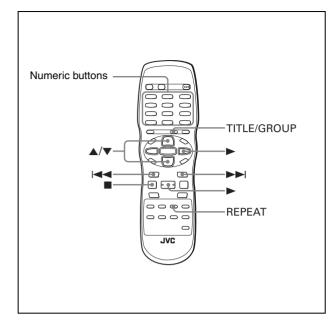
3 Press I ◄ ◄ / ► ► I to select a desired track, then press ENTER or ►.

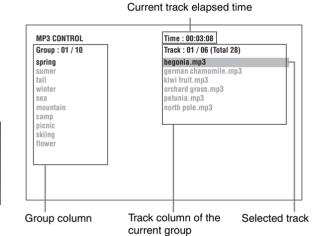
or

Press the numeric buttons to directly specify a desired track number.

To select 5: press 5. To select 23: press +10, +10, then 3. To select 40: press +10, +10, +10, then 10.

The unit starts playback from the selected track.





Hint

You can also select a desired track by pressing \blacktriangleright to move the black bar to the right (track) column then using \blacktriangle/∇ .

NOTES

- If an MP3 file name includes any 2-byte character, the unit cannot 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.

Direct selection

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

1 During playback or while stopped, press TITLE/GROUP.

[--] is shown in the group display area of the display window.

2 Press the numeric buttons to specify a desired group number.

To select 5: press 5. To select 23: press +10, +10, then 3. To select 40: press +10, +10, +10, then 10.

Specify the group number within several seconds after pressing TITLE/GROUP (i.e. while the display window shows [--]).

The unit starts playback from track 1 of the selected group.

3 Press the numeric buttons to specify a desired track number.

The unit starts playback from the specified track. You can also use $| \blacktriangleleft \triangleleft \rangle \rightarrow 1$ or $\triangle / \blacktriangledown$ to specify a track, instead of the numeric buttons.

Repeat playback

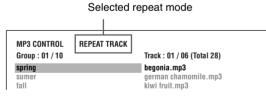
During playback or while stopped, press REPEAT.

Each time you press REPEAT, the repeat mode changes as follows.

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

MP3 CONTROL display	Display window	Function
REPEAT TRACK		Repeats the current track.
REPEAT GROUP	Ð	Repeats all tracks in the current group.
REPEAT ALL	Ð	Repeats all tracks on the disc.
No indication	The repe	at mode is off.





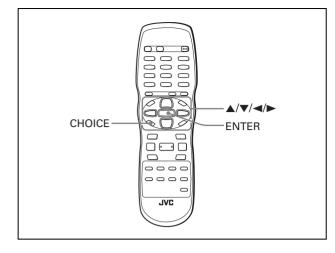
To stop repeat playback

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.



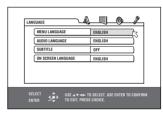
Selecting preferences

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

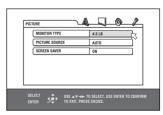
About the Preference display

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

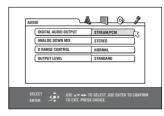
LANGUAGE



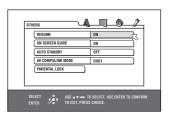
PICTURE



AUDIO



OTHERS



How to set preferences

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.

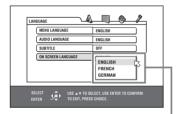
A: LANGUAGE menu

- C : PICTURE menu
-): AUDIO menu
- 1/2 : OTHERS menu
- **2** Press *◄/►* to select the appropriate icon. The appropriate display appears on the TV screen.

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 then press ENTER.

- The selected option is set.
- For details about each setting, see the following.

To dismiss a preference display

Press CHOICE.

NOTES

- While an MP3 disc is inserted, 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 preference display sometimes may be cut off. If this happens, adjust the picture size control of the TV.

LANGUAGE menu

MENU LANGUAGE

You can select the default menu language to be displayed if it is contained on a DVD VIDEO disc.

Setting options

ENGLISH, SPANISH, FRENCH, CHINESE, GERMAN, ITALIAN, JAPANESE, language code from AA to ZU

- If the disc does not have a menu in the selected language, the disc's default language will be used.
- For details about language codes, see "Appendix B: Table of languages and their abbreviations" on page 30.
- You cannot change the setting during playback.

AUDIO LANGUAGE

You can select the default audio language to be played if it is contained on a DVD VIDEO disc.

Setting options

ENGLISH, SPANISH, FRENCH, CHINESE, GERMAN, ITALIAN, JAPANESE, language code from AA to ZU

- If the disc does not have the selected language, the disc's default language will be used.
- For details about language codes, see "Appendix B: Table of languages and their abbreviations" on page 30.
- You cannot change the setting during playback.

SUBTITLE

You can select the default subtitle language to be displayed if it is contained on a DVD VIDEO disc.

Setting options

OFF, ENGLISH, SPANISH, FRENCH, CHINESE, GERMAN, ITALIAN, JAPANESE, language code from AA to ZU

- If the disc does not have a subtitle in the selected language, the disc's default language will be used.
- For details about language codes, see "Appendix B: Table of languages and their abbreviations" on page 30.
- You cannot change the setting during playback.

ON SCREEN LANGUAGE

You can select the on-screen display language of the unit.

Setting options

ENGLISH, FRENCH, GERMAN

- Some on-screen messages are shown in English regardless of the setting.
- You cannot change the on-screen language shown on the MP3 display.

PICTURE menu

MONITOR TYPE

You can select the monitor type to match your TV when you play back DVD VIDEO discs recorded for wide-screen televisions.

Setting options

16:9 NORMAL, 16:9 AUTO, 4:3 LB, 4:3 PS

[16:9 NORMAL] (Wide television screen): select when you connect the unit to a wide-screen (16:9) TV whose aspect ratio is fixed to 16:9 (the unit automatically adjusts the screen width of the output signal correctly when playing back a 4:3 source).

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.



[16:9 AUTO] (Wide television screen): select when you connect the unit to a wide-screen (16:9) TV.

[4:3 LB] (Letter Box conversion): select when you connect the unit to a normal (4:3) TV.

When playing back a DVD VIDEO disc recorded in wide picture format, the picture is shown with black bars at the top and bottom.



[4:3 PS] (Pan Scan conversion): select when you connect the unit to a normal (4:3) TV.

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.

Note, however, that the picture will be shown in the 4:3 LB mode even if you select the 4:3 PS mode depending on the disc.



PICTURE SOURCE

This mode selects whether the content on the disc is processed by field (video source) or by frame (film source). You can obtain optimal picture quality according to the source type to be played back by selecting an appropriate option.

Setting options

AUTO, FILM, VIDEO(NORMAL), VIDEO(ACTIVE)

[AUTO]: select when playing back a disc containing both video and film source materials.

- The unit recognizes the picture type (film or video source) of the current disc according to the disc information. Normally, select this option.
- [FILM]: select when playing back a film source disc.
- [VIDEO(NORMAL)]: select when playing back a video source disc with relatively a few movements.
- [VIDEO(ACTIVE)]: select when playing back a video source disc with relatively a lot of movements.

SCREEN SAVER

You can set the screen saver function to ON or OFF. (See page 10.)

<u>Setting options</u>

ON, OFF

AUDIO menu

DIGITAL AUDIO OUTPUT

To connect the unit's digital output to an external device equipped with a digital input, this item must be set correctly. See "Appendix C: Digital output signal chart" on page 30 for

details about the relation between the setting and output signals.

Setting options

PCM ONLY, DOLBY DIGITAL/PCM, STREAM/PCM

- [PCM ONLY]: select when you connect the DIGITAL OUT jack of the unit to the linear PCM digital input of other audio equipment.
- [DOLBY DIGITAL/PCM]: select 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 MPEG Multichannel format outputs a linear PCM digital signal.
- [STREAM/PCM]: select 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.
- With some DVD VIDEO discs that are not fully copy-protected, a 20 or 24 bit digital signal may be output.
- A signal recorded with the 96 kHz or higher sampling frequency is output from the DIGITAL OUT jack with the 48 kHz sampling frequency.
- The unit does not provide the DTS decoding function.
- When playing a DVD VIDEO or Audio CD disc with DTS, use a DTS decoder to get correct signals from your speakers.
- DTS-encoded signal is output only from the unit's DIGITAL OUT jacks.
- If the unit is not connected to audio equipment with a DTS decoder, DTS-encoded signal output from the DIGITAL OUT jacks is distorted.

ANALOG DOWN MIX

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.

(This function does not work when the 3D PHONIC function is activated.)

Setting options

DOLBY SURROUND, STEREO

- [DOLBY SURROUND]: select when listening to multichannel surround audio with the unit's analog AUDIO OUT terminals connected to a surround decoder.
- [STEREO]: select when listening to conventional two-channel stereo audio with the unit's AUDIO OUT terminals connected to a stereo amplifier/receiver or television set, or in case you want to record the audio from a DVD VIDEO disc to MiniDisc, cassette, etc.

D. RANGE CONTROL

This setting provides optimal audio quality from the analog AUDIO OUT terminals for listening to DVD VIDEO discs recorded in Dolby Digital format, at low or middle volume.

Setting options

WIDE RANGE, NORMAL, TV MODE

[WIDE RANGE]: when selected, audio is played back with the widest dynamic range so that you can enjoy powerful playback sound.

[NORMAL]: normally, select this option.

[TV MODE]: select if DVD VIDEO disc sound level is lower than TV program sound level. Thus you can hear sound at a lower volume clearly.

OUTPUT LEVEL

This setting allows you to attenuate the level of the signal output from the unit's analog AUDIO OUT terminals.

Setting options

STANDARD, LOW

• If the sound output from the speaker is distorted, select [LOW].

OTHERS menu

RESUME

You can select the resume playback mode. See pages 8 and 9 for details about the resume playback function.

Setting options

ON, OFF, DISC RESUME

- **[ON]:** when selected, the unit can resume playback of the disc from the position where playback was last interrupted, if the disc is still in the disc tray.
- [OFF]: when selected, the resume function is deactivated.
- [DISC RESUME]: when selected, the unit can resume playback of the last 30 discs played. The unit retains a memory of the interrupted positions of the last 30 discs played, even though they have been removed from the disc tray.

ON SCREEN GUIDE

The unit can display "on-screen guide" icons or characters on the picture, which show what is happening to the disc or the unit (see page 8).

Example of "on-screen guide" icons: \bigcirc_1 , \bigcirc , ...

Setting options

ON, OFF

[ON]: when selected, the on-screen guide is activated.

AUTO STANDBY

When the unit is stopped for more than 30 minutes or 60 minutes, the unit enters standby mode automatically.

Setting options

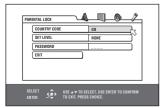
60, 30, OFF

AV COMPULINK MODE

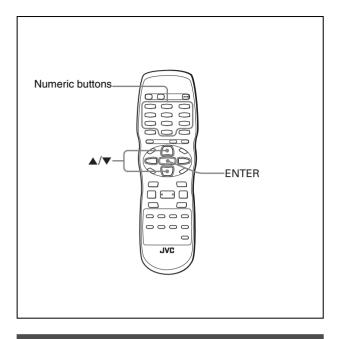
This item is provided for use in the future. Leave it as the default setting ("DVD 1").

PARENTAL LOCK

When this option is selected, pressing ENTER on the remote control unit brings up the PARENTAL LOCK display shown below. This allows you to restrict children from playing DVD VIDEO discs.



• See page 24 for details about the parental lock setting.



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.

To set Parental Lock for the first time



- **1** Bring up the OTHERS menu.
- 2 Press ▲/▼ to move 応 to select [PARENTAL LOCK] then press ENTER.

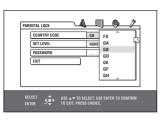
The Parental Lock on-screen display appears on the TV screen.

ŀ	COUNTRY CODE	
	SET LEVEL	NONE
	PASSWORD]
	EXIT	

3 While ^I∕_→ is pointing to [COUNTRY CODE], press ENTER to bring up the pull-down menu.

4 Press $\blacktriangle/\blacksquare$ 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 29.



5 Press ENTER.

K moves to [SET LEVEL].

6 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.

PARENTAL LOCK COUNTRY CODE SET LEVEL PASSWORD EXIT		GB NONE	NONE 8 7 6 5 4 3	7
SELECT 📌	USE 🔺 🔻 TO SE To exit, press			ONFIRM

7 Press ▲/▼ to select a desired parental lock level, then press ENTER.

 \square moves to [PASSWORD].

8 Press the numeric buttons (0 to 9) to enter a 4-digit password.

PARENTAL LOCK			0	2
COUNTRY CODE		GB		ונ
SET LEVEL		NONE)
PASSWORD		1234		ъI
EXIT				•••
	NEW PASSWOR To exit, press		0 ~ 9 KEY	

9 Press ENTER.

Hint

If you want to change the password at step 8, do it before pressing ENTER.

To change the settings



You can change the parental lock settings later.

- **1** Bring up the OTHERS menu.
- 2 Press ▲/▼ to move 応 to select [PARENTAL LOCK] and press ENTER.

The parental lock on-screen display appears on the TV screen.

3 While ^{IC} is pointing to [PASSWORD], press the numeric buttons to enter your current 4digit password then press ENTER.

 ${\textstyle \overrightarrow{\mbox{\tiny COUNTRY}}}$ code] if you enter the correct password.

If you enter a wrong password, "WRONG! RETRY..." appears on the TV screen, and you cannot go to the next step. If you forget your password, enter "8888." The current password is deleted and you can set a new password.

- **5** Press ▲/▼ to select the desired option then press ENTER.

If you change the country code, you must reselect the parental lock level.

6 While *I* → is pointing to [PASSWORD], press the numeric buttons to enter a 4-digit password.

The password entered in this step becomes the new password. If you want to keep the same password as before, enter the same password.

7 Press ENTER.

 $\ensuremath{\boxtimes}$ moves to [EXIT]. Pressing ENTER again returns to the [OTHERS] menu of the preference display.

NOTE

If you enter the wrong password more than 3 times in step 3 above, \bigtriangledown moves to [EXIT] automatically and $\blacktriangle/\triangledown$ do not work.

To temporarily release the Parental Lock



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 Press ▲/▼ to move to [TEMPORARY RELEASE], then press ENTER.

PARENTAL LOCK	
rasamunu	
SELECT SELECT, USE ENTER TO CONFIRM	

2 Press the numeric buttons (0 to 9) to enter your 4-digit password.

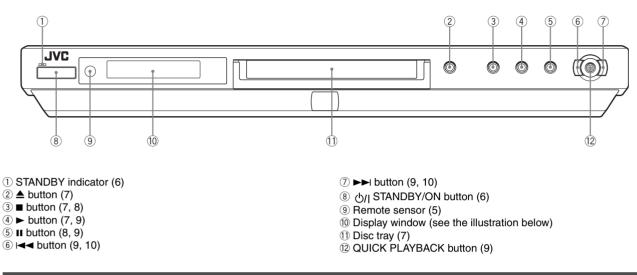
The parental lock is released, and the unit starts playback. If you enter a wrong password, "WRONG! RETRY..." appears on the TV screen. Enter the correct password.

NOTE

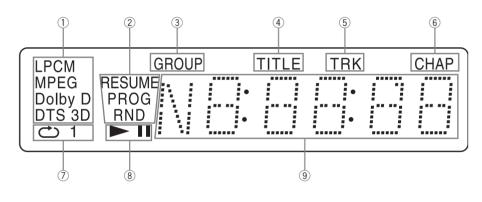
When you enter the wrong password 3 times at step 2 above, \square moves to [NOT RELEASE] automatically and $\blacktriangle/\triangledown$ do not work.

Names of parts and controls

Front panel



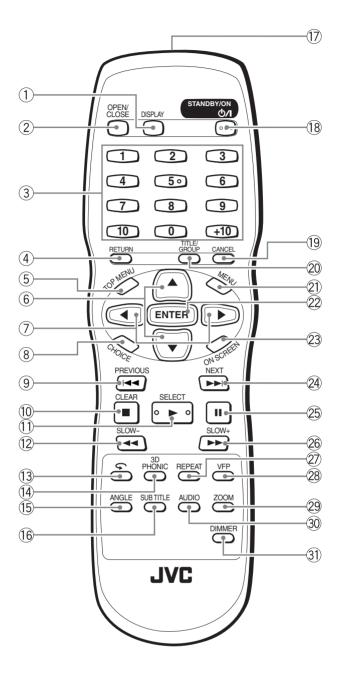
Display window



- ① Audio format indicators
- 2 Resume/Program/Random indicators
- 3 Group indicator
- ④ Title indicator
- (5) Track indicator

- 6 Chapter indicator
- ⑦ Repeat mode indicator
- ⑧ ►(play) / II(pause) indicators
- 9 Multi-information window

Remote control unit



DISPLAY button (8)
 OPEN/CLOSE button (7)
 Numeric buttons
 DETURN buttons (11)

- ④ RETURN button (11)
- (5) TOP MENU button (11)
- ⑥ Cursor selection (▲ Up, ▼ Down) buttons
- ⑦ Cursor selection (◄ Left, ► Right) buttons
 ⑧ CHOICE button (21)
- ⑨ I⊲</PREVIOUS button (9, 10, 19)
- 10 ■/CLEAR button (8, 13, 19)
- (1) ►/SELECT button (7, 9, 19)
- 12 **◄◄**/SLOW- button (9)
- 13 🗢 button (10)
- (1) 3D PHONIC button (17)
- (5) ANGLE button (15)
- 16 SUBTITLE button (15)

17 Infrared signal window (5)
18 STANDBY/ON (b)/| button (6)
19 CANCEL button (13)
20 TITLE/GROUP button (11, 20)
21 MENU button (11)
22 ENTER button
23 ON SCREEN button (8, 12, 17)
24 ►►/NEXT button (9, 10, 19)
25 II button (8, 19)
26 ►►/SLOW+ button (9)
27 REPEAT button (14, 20)
28 VFP button (16)
29 AUDIO button (15)
31 DIMMER button (7)

Troubleshooting

Power

Power does not come on.

→ Power plug is not inserted securely. Plug in securely.

Operation

"REGION CODE ERROR!" is shown on the TV screen.

Region code of the inserted disc does not match the unit. Check the region code of the disc printed on the disc jacket.

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 an unplayable disc is inserted. Check and replace the disc (see page 2).

[LOCK] is displayed on the display window and the disc tray does not open.

→ When you press ▲ while pressing down ■ on the unit in standby mode, the tray lock function is activated. The disc tray cannot be opened or closed in this status. To release this status, press ▲ while pressing down ■ on the unit in standby mode.

Picture

Picture is noisy.

➡ 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.

Color and brightness do not display correctly.

→ Multiple devices are connected using multiple connectors; the SCART connector, the S-VIDEO connector and composite connector. Connect only one cable to the connector you want to use.

Audio

DVD VIDEO disc playback sound level is lower than TV broadcast sound level.

→ Set the [D.RANGE CONTROL] preference to [TV MODE] (see page 23).

Analog audio output is distorted.

➡ Set the [OUTPUT LEVEL] preference to [LOW] (see page 23).

Sound is abnormal when DTS-encoded source is played back.

- Connect audio equipment with a built-in DTS decoder to the unit.
- Play back a source other than DTS-encoded one.

MP3

No sound comes out.

MP3 disc is recorded with the "packet writing (UDF format)." It cannot be played.

Files (tracks) are not played in the recorded order.

→ This unit plays the files in the alphabetic order. So, the playback order can vary.

Specifications

Specifications and appearance are subject to change without prior notice.

General

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

      Video format
      PAL
```

Other

```
      Power requirements

      AC 230 V \sim, 50 Hz

      Power consumption

      11.5 W (POWER ON), 2 W (STANDBY mode)

      Mass
      2.1 kg

      Dimensions (W × H × D)

      435 mm × 53 mm × 248.4 mm
```

Video outputs

 $\begin{array}{c} \text{VIDEO OUT (pin jack)} \\ 1.0 \text{ Vp-p } (75 \ \Omega) \\ \text{S-VIDEO OUT (S jack)} \\ & \text{Y Output: } 1.0 \text{ Vp-p } (75 \ \Omega) \\ & \text{C Output: } 300 \text{ mVp-p } (75 \ \Omega) \\ \text{RGB Output} & 700 \text{mVp-p } (75 \ \Omega) \\ \text{Horizontal resolution} \\ & 500 \text{ lines or more} \end{array}$

Audio outputs

ANALOG OUT (pin jack) 2.0 Vrms (10 kΩ) DIGITAL OUT (COAXIAL) 0.5 Vp-p (75 Ω termination)

Audio characteristics

Frequency respons	e
	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 96 kHz)
	2 Hz to 44 kHz
Dynamic range	16 bit: More than 98 dB
	20 bit: More than 100 dB
	24 bit: More than 100 dB
Wow and flutter	Unmeasurable (less than + 0.002%)
Total harmonic dist	ortion
	less than 0.006%

- Manufactured under license from Dolby Laboratories. "Dolby"
- and the double-D symbol are trademarks of Dolby Laboratories.
- Manufactured under license from Digital Theater Systems, Inc. "DTS" and "DTS Digital Surround" are registered trademarks of Digital Theater Systems, Inc.

Appendix A: Country/Area code list for Parental Lock

(for page 24)

~ P F	
AD	Andorra
AE	United Arab Emirates
AF	Afghanistan
AG	Antigua and Barbuda
AI	Anguilla
AL	Albania
AM	Armenia
AN	Netherlands Antilles
AO AQ	Angola Antarctica
AQ	Anarctica
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 BN	Bermuda 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 CH	Congo Switzerland
CI	Côte d'Ivoire
CK	Cook Islands
CL	Chile
СМ	Cameroon
CN	China
CO	Colombia
CR	Costa Rica
CU	Cuba
CV	Cape Verde
CX	Christmas Island
CY	Cyprus
CZ	Czech Republic
DE DJ	Germany 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 GI	Ghana
GL	Gibraltar Greenland
GM	Greenland Gambia
GN	Gambia Guinea
GP	Guadeloupe
GQ	Equatorial Guinea
GR	Greece
GS	South Georgia and the
ao	South Sandwich
GT	Guatemala
GU	Guam
GW	Guinea-Bissau
GY	Guyana
ΗK	Hong Kong
НМ	Heard Island and McDonald Islands
HN	Honduras
HR	Croatia
ΗT	Haiti
HU	Hungary
ID	Indonesia
IE 	Ireland
IL	Israel India
IN IO	British Indian Ocean
	Territory
IQ	Iraq
IR IS	Iran (Islamic Republic of) Iceland
IT	Italy
JM	Jamaica
JO	Jordan
JP	Japan
KE	Kenya
KG	Kyrgyzstan
КН	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
ΚZ	Kazakhstan
LA	Lao People's Democratic Republic
LB	Lebanon

rei	ntal Lock
LC	Saint Lucia
LI	Liechtenstein
LK	Sri Lanka
LR	Liberia
LS	Lesotho
LT	Lithuania
LU	Luxembourg
LV	Latvia
LY	Libyan Arab Jamahiriya
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 NI	Nigeria
NL	Nicaragua
	Netherlands
NO NP	Norway
	Nepal Nauru
NR NU	
NZ	Niue New Zealand
OM	
PA	Oman Panama
PA	Panama Peru
PE	
PF PG	French Polynesia
PG	Papua New Guinea Philippines
PH	
PK PL	Pakistan Poland
PL	Saint Pierre and Miguelon
PN	Pitcairn
PN PR	Pitcairn Puerto Rico
PR	Puerto Rico Portugal
PW	-
PW PY	Palau
	Paraguay
QA	Qatar Réunion
RE	Réunion
RO	Romania Russian Endoration
RU	Russian Federation
RW	Rwanda Saudi Arabia
SA	Saudi Arabia
SB	Solomon Islands

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	Тодо					
TH	Thailand					
TJ	Tajikistan					
TK	Tokelau					
ТМ	Turkmenistan					
TN	Tunisia					
TO TP	Tonga East Timor					
	East Timor					
TR	Turkey					
TT	Trinidad and Tobago					
TV	Tuvalu					
TW	Taiwan					
ΤZ	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					
VC	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					
WF	Samoa					
YE						
	Yemen					
YT	Mayotte					
YU	Yugoslavia					
	South Africa					
ZA						
ZA ZM	Zambia					
ZA						

SC

Seychelles

Appendix B: Table of languages and their abbreviations

(for pages 15 and 22)

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	ΗY	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
СО	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
ΕT	Estonian	KK	Kazakh	NO	Norwegian	SS	Siswati	ZU	Zulu
EU	Basque	KL	Greenlandic	OC	Occitan	ST	Sesotho		

Appendix C: Digital output signal chart

(for page 23)

Disc type	Output						
Disc type	PCM ONLY	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 kHz, 16/22/24 bit linear PCM	48 kHz, 16 bit, stereo linear PCM (Down sampling)						
DVD with DTS	No o	DTS bitstream					
DVD with Dolby Digital	48 kHz, 16 bit, stereo linear PCM	al bitstream					
DVD with MPEG Multichannel	48 kHz, 16 bit, s	MPEG bitstream					
SVCD/Video CD/Audio CD	44.1 kHz, 16 bit, stereo l		ear PCM				
Audio CD with DTS	No o	DTS bitstream					
CD-R/RW with MP3	Linear PCM						

Appendix D: 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.

Chapter/title

Chapter is the smallest division and title is the largest division on DVD VIDEO. A chapter is a division of a title and similar to a track for Video CD or Audio CD.

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 Pro Logic

Dolby Surround records four channels of front and rear audio in two channels in a way that allows a decoder to recover the original four channels for playback. Because the audio is recorded in two channels, it can be played back naturally by a two-channel stereo system.

Dolby Pro Logic introduces directional circuits in decoder-side processing (increasing the level of specific channels and lowering the level of silent channels) for greater spatial perspective, and adds a center speaker used primarily for dialog. The result is enhanced channel separation.

Down-mix

Internal stereo mix of multichannel surround audio by a DVD player. The down-mix signals are output from analog AUDIO OUT 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.

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.

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 infromation. "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.

NTSC (National television system committee)

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

PAL (Phase Alternation by Line)

A color television system format used extensively in Western Europe.

РВС

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.

RGB

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

S-video

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

Track

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

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!





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