



| DVD VIDEO PLAYER XV-LTR1 | IORD | Introduction | 2 |
|--------------------------|---|------------------------|----|
| | RINGS THE FELLOWSHIP OF THE RING | Preliminary knowledge | 5 |
| | | Getting started | 13 |
| | | Basic operations | 18 |
| | | Advanced operations | 21 |
| | | Initial settings | 36 |
| | | Additional information | 42 |
| | INSTRUCTIONS | | |

| For Customer Use: |
|---|
| Enter below the Model No. and Serial No. which are located on the rear, bottom or side of the cabinet. Retain this information for future reference. <u>Model No.</u> |
| |

Serial No

Warnings, Cautions and Others Mises en garde, précautions et indications diverses





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



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

For U.S.A.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

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

For Canada/pour le Canada

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT ATTENTION: POUR EVITER LES CHOCS ELECTRIQUES,

INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQUAU FOND

For Canada / Pour le Canada

THIS DIGITAL APPARATUS DOES NOT EXCEED THE CLASS B LIMITS FOR RADIO NOISE EMISSIONS FORM DIGITAL APPARATUS AS SET OUT IN THE INTERFERENCE-CAUSING EQUIPMENT STANDARD ENTITLED "DIGITAL APPARATUS," ICES-003 OF THE DEPARTMENT OF COMMUNICATIONS.

CET APPAREIL NUMERIQUE RESPECTE LES LIMITES DE BRUITS RADIOELECTRIQUES APPLICABLES AUX APPAREILS NUMERIQUES DE CLASSE B PRESCRITES DANS LA NORME SUR LE MATERIEL BROUILLEUR: "APPAREILS NUMERIQUES", NMB-003 EDICTEE PAR LE MINISTRE DES COMMUNICATIONS.

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.

ATTENTION

Afin d'éviter tout risque d'électrocution, d'incendie, etc.:

- 1. Ne pas enlever les vis ni les panneaux et ne pas ouvrir le coffret de l'appareil.
- 2. Ne pas exposer l'appareil à la pluie ni à l'humidité.

Caution — STANDBY/ON U/I switch!

Disconnect the mains plug to shut the power off completely. The STANDBY/ON $\oplus/|$ switch in any position does not disconnect the mains line. The power can be remote controlled.

Attention — Commutateur STANDBY/ON U/!!

Déconnecter la fiche de secteur pour couper complètement le courant. Le commutateur STANDBY/ON $\oplus/|$ ne coupe jamais complètement la ligne de secteur, quelle que soit sa position. Le courant peut être télécommandé.

IMPORTANT FOR LASER PRODUCTS IMPORTANT POUR LES PRODUITS LASER

- 1. CLASS 1 LASER PRODUCT
- 2. **CAUTION:** Visible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
- 3. **CAUTION**: Do not open the top cover. There are no user serviceable parts inside the Unit; leave all servicing to qualified service personnel.
- 1. PRODUIT LASER CLASSE 1
- 2. **ATTENTION:** Radiation laser visible quand l'appareil est ouvert ou que le verrouillage est en panne ou désactivé. Eviter une exposition directe au rayon.
- ATTENTION: Ne pas ouvrir le couvercle du dessus. Il n'y a aucune pièce utilisable à l'intérieur. Laisser à un personnel qualifié le soin de réparer votre appareil.

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 use this apparatus in a bathroom or places with water. Also do not place any containers filled with water or liquids (such as cosmetics or medicines, flower vases, potted plants, cups, etc.) on top of this apparatus.

ATTENTION

- Ne bloquez pas les orifices ou les trous de ventilation. (Si les orifices ou les trous de ventilation sont bloqués par un journal un tissu, etc., la chaleur peut ne pas être évacuée correctement de l'appareil.)
- Ne placez aucune source de flamme nue, telle qu'une bougie, sur l'appareil.
- Lors de la mise au rebut des piles, veuillez prendre en considération les problèmes de l'environnement et suivre strictement les règles et les lois locales sur la mise au rebut des piles.
- N'utilisez pas cet appareil dans une salle de bain ou un autre endroit avec de l'eau.

Ne placez aucun récipient contenant de l'eau (tel que des cosmétiques ou des médicaments, un vase de fleurs, un pot de fleurs, une tasse, etc.) sur cet appareil.

Table of Contents

| Introduction | Page 2 |
|---|---------|
| Features | - |
| Supplied accessories | |
| About this instruction manual | |
| Notes on handling | |
| | |
| Preliminary knowledge | Page 5 |
| Names of parts and controls | 5 |
| Front panel | |
| Remote control unit | 6 |
| Display window | |
| Rear panel | 8 |
| Operational Principles | 9 |
| On-screen displays | |
| To prevent the monitor from burning out [SCREEN SAVER] | |
| On-screen guide icons | |
| How to use numeric buttons | |
| About discs | |
| Playable disc types | |
| Disc structure | |
| | |
| Getting started | Page 13 |
| Connections | 13 |
| Before making any connections | 13 |
| To connect to a TV | 13 |
| To connect to a TV with the component video | |
| input jacks | |
| To connect to an audio amplifier or receiver | |
| To connect to audio equipment with a digital input. | |
| To connect the power cord | |
| To install batteries in the remote control unit | |
| Remote sensor | 1/ |
| Basic operations | Page 18 |
| Turning on/off the unit | - |
| Inserting and removing discs | 18 |
| Basic playback | |
| To start playback | |
| To stop playback completely | |
| To stop playback temporarily | |
| To advance or reverse playback rapidly while | |
| monitoring | 19 |
| To locate the beginning of the scene or song | |
| Resuming playback | |
| To memorize the interrupted position | |
| To resume playback | |
| Advanced operations | Page 21 |
| Playing from a specific position on a disc | 0 |
| To locate a desired scene from the DVD menu | |

To locate a desired scene from the menu of the

Video CD with PBC.....21

To locate a desired selection using the numeric buttons $\hdots 22$

| To locate a desired selection using I◄◄ or ►►I | 22 |
|--|---------|
| To locate a desired scene by specifying the chapter | |
| number [CHAP.SEARCH] | |
| To locate a desired position in the current title or tra | |
| [TIME SEARCH] | |
| To locate a desired scene from the display [DIGEST] | 24 |
| Special picture playback | 25 |
| To advance a still picture frame-by-frame | |
| To display continuous still pictures [STROBE] | |
| To playback in slow-motion [SLOW] | |
| To zoom a scene [ZOOM] | |
| Changing the playback order | |
| To playback in the desired order [PROGRAM] | |
| To playback in random order [RANDOM] | |
| Repeat playback | |
| To repeat the current selection or all tracks [REPEAT | |
| To repeat a desired part [A-B REPEAT] | |
| Selecting a scene angle of DVD VIDEO | |
| To select a scene angle from the normal screen | |
| [ANGLE] | 30 |
| To select a scene angle from the angle list display | |
| [ANGLE] | 31 |
| Changing the language and sound | |
| To select the subtitle language [SUBTITLE] | |
| To change the audio language or sound [AUDIO] | |
| Selecting the picture character | |
| To select the picture character [THEATER POSITION] | |
| Enjoying virtual surround sound | 22 |
| To simulate surround sound [3D PHONIC] | |
| Checking the status | |
| To check the disc/time information | |
| To check the DVD function status | |
| | |
| To dim the brightness of the display window | |
| Dimming brightness of the display window | 35 |
| Initial settings | Daga 26 |
| | Page 36 |
| Selecting preferences | |
| How to set preferences | |
| LANGUAGE page | |
| AUDIO page | 37 |

| LANGUAGE page | | |
|---|------------|--|
| AUDIO page | | |
| DISPLAY page | | |
| SYSTEM page | | |
| Limiting playback by children | | |
| To set Parental Lock for the first time | | |
| [PARENTAL LOCK] | | |
| To change the settings [PARENTAL LOCK] | 40 | |
| To temporarily release the Parental Lock | | |
| [PARENTAL LOCK] | 41 | |
| Additional information | Page 42 | |
| Care and handling of discs | × 12 | |
| - | | |
| Troubleshooting | | |
| Specifications | | |
| Table of languages and their abbreviations. | Appendix A | |

| Table of languages a | ind their abbrevia | tions Appendix A |
|-----------------------|--------------------|------------------|
| Country code list for | Parental Lock | Appendix B |

Features

Picture functions

■Strobe function

The unit can display nine continuous still pictures on the TV screen.

■Digest function

You can select the desired selection to be played from the opening scenes displayed on the TV screen.

■Angle function*

You can select a desired angle from multiple camera angles recorded on the DVD VIDEO disc.

Zoom function

You can view scenes close-up.

Parental lock*

You can restrict the playback of DVD VIDEO discs with scenes which you do not want children to see, such as adult or violent films.

Theater position

You can select the picture character according to the lighting of your room.

Audio functions

■High quality digital sound

You can enjoy high quality sound with Dolby Digital or Linear-PCM.

Surround function*

The unit accommodates the Dolby Digital and, DTS surround systems. (These surround signals are output only from the DIGITAL OUT jacks.)

■3D Phonic function

You can enjoy surround sound with your 2-channel system.

Other functions

■Multi-language subtitles and sound*

You can select a subtitle or sound language from those recorded on the DVD VIDEO disc.

Multi-disc playback

You can enjoy Audio CD discs and Video CD discs, as well as DVD VIDEO discs.

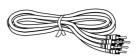
Operation from the on-screen display

User-friendly on-screen displays allow you to operate the unit easily.

Functions with (*) mark only work on a DVD VIDEO disc that is compatible with each function.

Supplied accessories

• Audio/Video cable (x 1)



• Remote Control Unit (x 1)



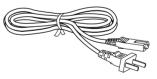
• R6P(SUM-3)/AA(15F) batteries (x 2)



• Instruction manual (x 1)



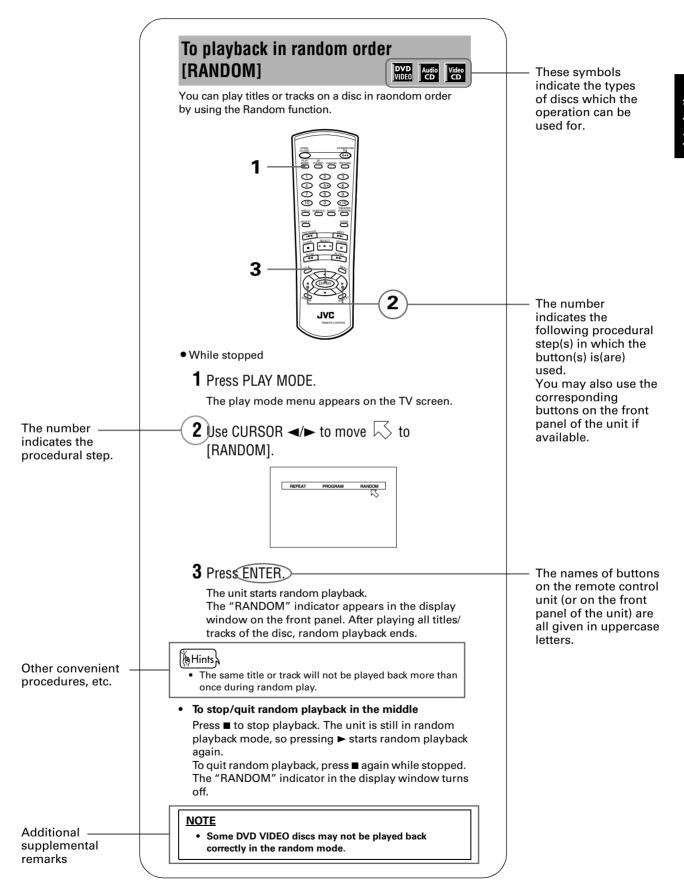
AC power cord (x 1)



- Sticker (x 1)
- JVC Special edition DVD VIDEO disc (x 1)

About this instruction manual

This instruction manual basically explains operations as follows:



Notes on handling

Important cautions

Installation of the unit

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

Power cord

- Do not handle the power cord with wet hands!
- A small amount of power (2.2 W) is always consumed while the power cord is connected to the wall outlet.
- When unplugging the player from the wall outlet, always pull the plug, not the power cord.

To prevent malfunction of the unit

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

Note about copyright laws

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

Note about the copyguard system

 The DVD VIDEO disc is protected by the copyguard system. When you connect the unit to your VCR directly, the copyguard system activates and the picture may not be played back correctly.

Safety precautions

Avoid moisture, water and dust

Do not place the unit in moist or dusty places.

Avoid high temperatures

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

When you're away

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

Do not insert foreign objects into the unit

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

Do not block the vents

Blocking the vents may damage the unit.

Care of the cabinet

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

If water gets inside the unit

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

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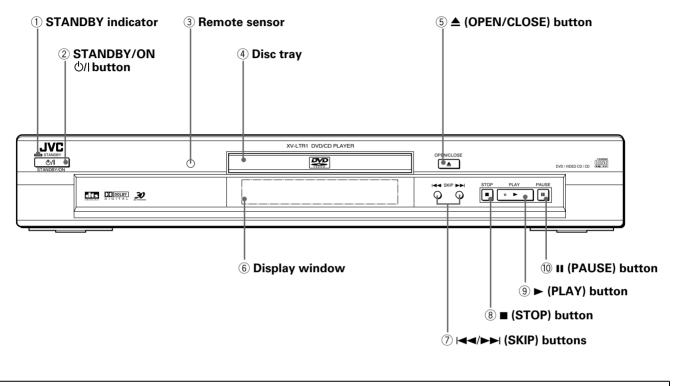
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Names of parts and controls

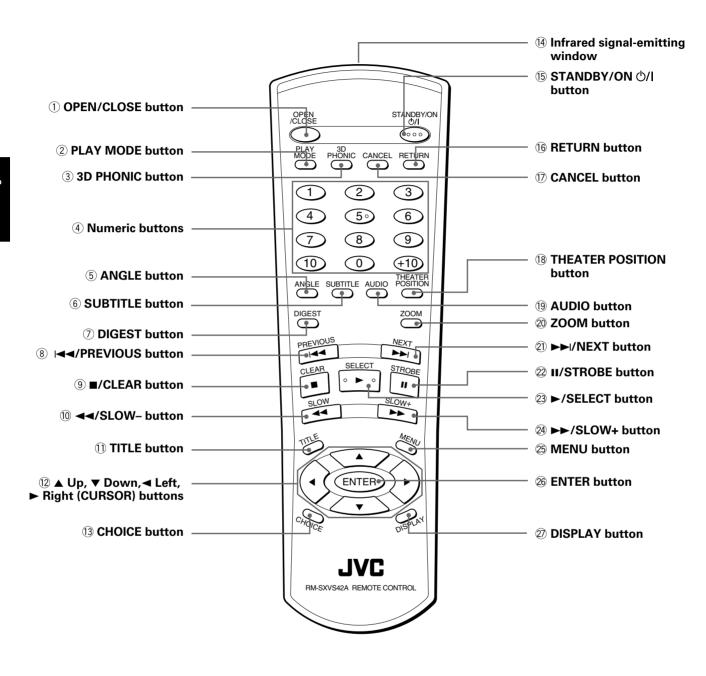
Refer to the corresponding pages indicated in () for details.

Front panel



(1) STANDBY indicator ⑦ |◄◄/►► (SKIP) buttons (19) Lights when the power cord is connected and the unit is Used to skip a chapter, title or track. Also, used for the on standby. When the unit is turned on, the STANDBY page selection of a menu screen (for Video CD). indicator goes off. Holding down Idd or ►►I during playback reverses or advances playback rapidly. 2 STANDBY/ON O/I button (18) Turns the unit on or off (standby). ⑧ **■** (STOP) button (19) Stops playback. Also used to change the video output ③ Remote sensor (17) setting (See page 14). Receives signals from the remote control unit. **⑨ ► (PLAY) button (19)** ④ Disc tray (18) Starts playback. Also, used as a SELECT button for Used to load a disc. PBC of Video CDs. 5 ▲ (OPEN/CLOSE) button (18) 10 II (PAUSE) button (19) Used to open and close the disc tray. Pauses playback. Also, used to display nine continuous 6 Display window (8) still pictures (STROBE function). Indicates the current status of the unit.

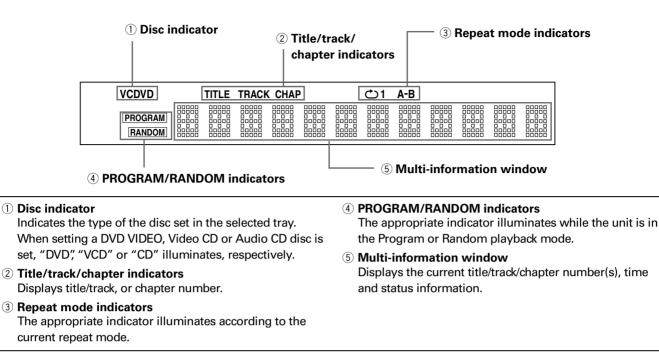
Remote control unit



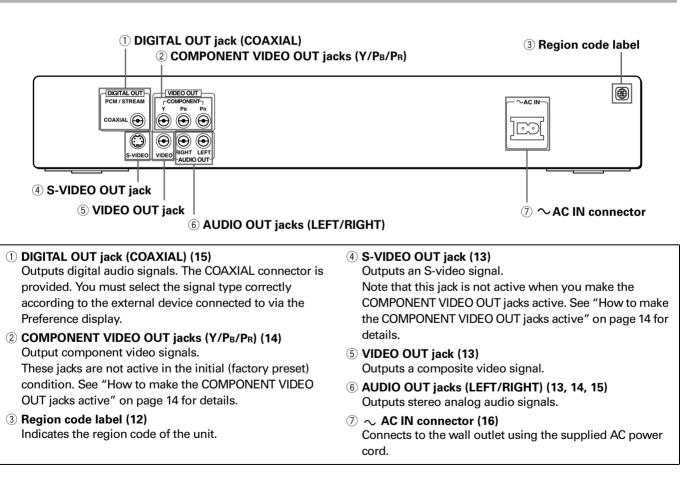
| Opens and closes the disc tray. (2) PLAY MODE button (23, 27, 28, 29) Displays an on-screen display for controlling the | Point this window toward the remote sensor on the front panel when pressing buttons. |
|---|--|
| advanced playback functions. | ⑮ STANDBY/ON 心/I button (18) Turns the unit on or off (standby). |
| ③ 3D PHONIC button (33) Produces a simulated surround effect. | (6 RETURN button (21) Returns to the previous menu (for DVD VIDEO/Video CD). |
| ④ Numeric buttons (11) Used to select a title or track number, as well as used to enter a time for the Time search and a chapter number for the Chapter search. | CANCEL button (27) Cancels the last programmed selection in the Program mode. |
| 5 ANGLE button (30, 31) Changes camera angles during playback of a DVD VIDEO disc containing multiple camera angles (for DVD VIDEO). | (B) THEATER POSITION button (33) Selects a picture character from 4 options (for DVD VIDEO/Video CD). |
| 6 SUBTITLE button (31) | AUDIO button (32) Selects the audio (for DVD VIDEO/Video CD). |
| Used to display the subtitle selection display on the TV screen, as well as used to turn the subtitle on or off (for DVD VIDEO). | 20 ZOOM button (26) Zooms in the picture (for DVD VIDEO/Video CD). |
| DIGEST button (24) Displays beginning scenes of each title, chapter or track on the TV screen (for DVD VIDEO/Video CD). | ② ►►I/NEXT button (19, 20, 22) Skips forward a chapter, title or track. Also used for the page selection of a menu screen (for DVD VIDEO/Video CD). |
| ⑧ I◄◄/PREVIOUS button (19, 20, 22) Skips back a chapter, title or track. Also used for the page selection of a menu screen (for DVD VIDEO/Video CD). | Holding down this button during playback advances playback rapidly. |
| Holding down this button during playback reverses playback rapidly. | II/STROBE button (19, 25, 26) Pauses playback. Also, used to display nine continuous still pictures (STROBE function). |
| ⑨ ■/CLEAR button (19, 27) Stops playback. Also used to erase all the programmed tracks for the program play. | 23 ►/SELECT button (19, 21) Starts playback. Also used as a SELECT button for PBC of Video CDs. |
| Image: Second Science of the second secon | |
| Pressing this button while a DVD VIDEO disc is paused reverses playback slowly. | rapidly. Pressing this button while a DVD VIDEO or Video CD disc is paused advances playback slowly. |
| TITLE button (21) Displays the title menu of a DVD VIDEO disc on the TV screen. | 25 MENU button (21) Displays a DVD menu on the TV screen. |
| 12 ▲ Up, ▼ Down, ◄ Left, ► Right (CURSOR) buttons Used to select an item form a menu or on-screen display, | 26 ENTER button Executes the selected item in a menu or on-screen display. |
| or to change the setting of an item in the on-screen display. In this manual, we sometimes call them "CURSOR" | DISPLAY button (35) Displays the status information (only for DVD disc) or the time information (for any types of discs). |

screen.

Display window



Rear panel



Operational Principles

On-screen displays

The unit provides several on-screen displays. With some displays, you can set or select preferences or functions, while the others are display-only.

Opening displays

The Opening display appears automatically in some conditions.

At the bottom, the following information are indicated depending on the unit's status.

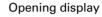
- NOW READING: The unit is now reading the disc information (TOC).
- REGION CODE ERROR!: The DVD VIDEO disc loaded cannot be played because the region code of the disc does not match the unit.
- OPEN: The disc trav is now opening.
- · CLOSE: The disc tray is now closing.

Preference displays

When no disc is inserted or when a DVD VIDEO or Video CD disc is inserted and stopped, pressing the CHOICE button brings up the preference display for setting the preferences.

There are four pages: LANGUAGE, AUDIO, DISPLAY and SYSTEM as shown on the right.

See page 36 for detailed information.





LANGUAGE

E AUDIO

MENU LANGUAGE

AUDIO LANGUAGE

PRESS **4** KEY

AUDIO

MONITOR TYPE

SCREEN SAVER

ON SCREEN GUIDE

PRESS **4** KEY

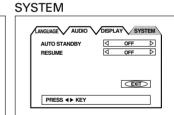
SUBTITLE ON SCREEN LANGU

DISPLAY

| AUDIO | | |
|-----------|---------------------------------|--|
| NY SYSTEM | | |
| ENGLISH D | DIGITAL AUDIO OUTPUT STREAM/PCM | |
| ENGLISH D | DOWN MIX 🛛 Lo/Ro D | |
| ENGLISH ▷ | COMPRESSION ON D | |
| ENGLISH D | | |
| EXIT | EXIT | |
| | PRESS I KEY | |
| | | |

4:3 LB 🗖 🗘

ENGL



PARENTAL LOCK display

When no disc is inserted or a DVD VIDEO disc is stopped, pressing the ENTER button while holding down the ■ button brings up the PARENTAL LOCK display in which you can set the level for limiting playback. See page 39 for detailed information.

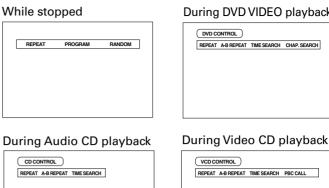
PARENTAL LOCK

| ⊲ us ⊳ ⊲ ⊳ – |
|--------------------|
| |
| - |
| |
| |
| |

Play mode displays

Pressing the PLAY MODE button brings up the play mode display in which you can control playback functions.

Different displays appear depending on the disc type and the unit's status.



During DVD VIDEO playback

DVD CONTROL REPEAT A-B REPEAT TIME SEARCH CHAP. SEARCH

During Audio CD playback



DVD VIDEO function status

1/2 ()) 1/2 () 1/2 ENGLISH ENGLISH

Disc/time (DVD VIDEO)

TITLE 1 CHAP. 25 TIME 2:25:25 BITRATE 3.3 Mbps

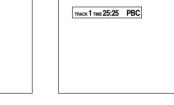
REPEAT A-B REPEAT TIME SEARCH PBC CALL

Disc/time (Audio CD/Video CD without PBC)

TRACK 1 TIME 00:08 EACH

Disc/time

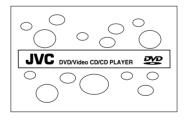
(Video CD with PBC)



To prevent the monitor from burning out [SCREEN SAVER]

A television monitor screen may be burned out if a static picture is displayed for a long time. To prevent this, the unit automatically activates the screen saver function if a static picture, such as an on-screen display or menu, is displayed for over 5 minutes.

- Pressing any button on the unit or the remote control unit will release the screen saver function and return to the previous display.
- You can select one of several screen saver modes available (see page 38).
- The screen saver function is not activated during Audio CD playback or after stopping Audio CD playback.



Status displays

Pressing the DISPLAY button during playback brings up the status display.

For a DVD VIDEO disc, pressing the DISPLAY button toggles between the DVD VIDEO function status display, the disc/time display and off.

For a Video CD or Audio CD disc, pressing the DISPLAY button switches the disc/time display on and off.

On-screen guide icons

During DVD VIDEO playback, you may see icons displayed over the picture. These have the following meanings.



Displayed at the beginning of a scene recorded with multiple audio languages. (See page 32.)

: Displayed at the beginning of a scene recorded from multiple angles. (See page 30.)



Displayed at the beginning of a scene recorded with multiple subtitle languages. (See page 31.)

You can set the unit not to display on-screen icons above via the preference settings described on page 39.

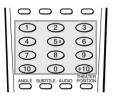
About invalid operation icon

When you press a button, if the unit does not accept its operation, \bigotimes appears on your television screen. Operations are occasionally unacceptable even if \bigotimes 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.

How to use numeric buttons

To select a track/title number



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

| Examples: | |
|--------------|---|
| To select 13 | $+10 \rightarrow 3$ |
| To select 34 | +10 \rightarrow +10 \rightarrow +10 \rightarrow 4 |
| To select 40 | $+10 \rightarrow +10 \rightarrow +10 \rightarrow 10$ |

To enter a time or chapter number

The method for entering a time for Time search or chapter number for Chapter search is different from above. See the corresponding sections in this manual for the details.

About discs

Playable disc types

Playable and non-playable disc types are as follows:

Playable discs



The DVD VIDEO Logo is a trademark.

- CD-R and CD-RW discs recorded with the Audio CD format can be played back, though some may not be played back because of the disc characteristics or recording condition.
- DVD VIDEO players and DVD discs have their own Region Code numbers. This unit only can play back DVD VIDEO discs whose Region Code numbers include "1."
 Examples of playable DVD VIDEO discs:



This unit accommodates the NTSC television system and can playback discs recorded with the NTSC system. Note that the unit cannot playback the disc recorded with the PAL system.

Non-playable discs

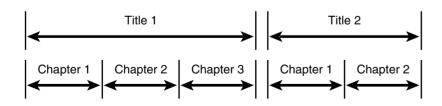
DVD-ROM, DVD-RAM, DVD AUDIO, DVD-R, DVD-RW, CD-ROM, PHOTO CD, CD-EXTRA, CD-G, CD-TEXT

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

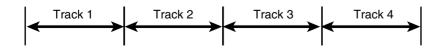
Disc structure

A DVD VIDEO disc is comprised of "titles," while an Audio CD, Video CD is comprised of "tracks". Each title may be divided into some "chapters". For example, if a DVD VIDEO disc contains some movies, each movie may have its own title number, and each movie may be divided into some chapters. In a DVD VIDEO KARAOKE disc, each song usually has its own title number and does not have chapters. In general, each title has independent content, while each chapter in the same title has continuity.

(Example: DVD VIDEO disc)



(Example: Audio CD/Video CD)



Connections

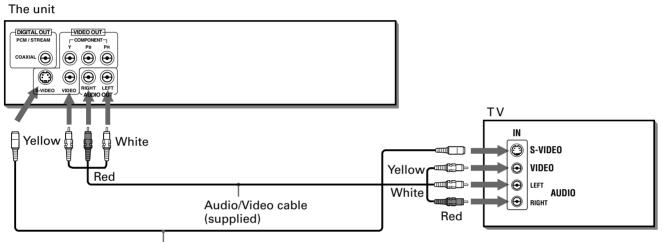
*In the following description, "TV" may be substituted with "monitor" or "projector." *Before using the unit, you have to connect the unit to a TV and/or amplifier.

Before making any connections

- Do not connect the AC power cord until all other connections have been made.
- Since different components often have different terminal names, carefully read the instructions supplied with the component you are going to connect.

To connect to a TV

You can enjoy using the unit by simply connecting it to a TV. To improve audio sound quality, connect the audio outputs to your separate audio equipment. (See the following pages.)



S-video cable (not supplied)

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

- If your TV has a monaural audio input instead of stereo, you need to use an optional audio cable which converts stereo audio output to monaural.
- If your TV has an S-video input, you should connect it with the S-VIDEO output of the unit using the S-video cable (optional) in addition to the (standard) video connection to get better picture quality.

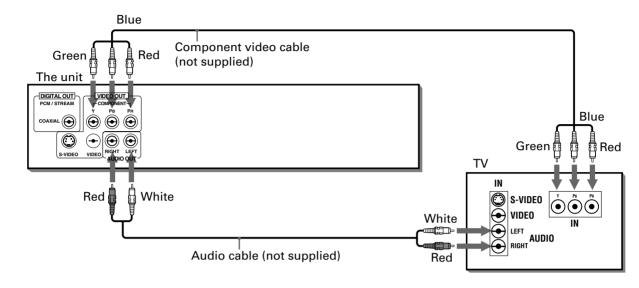
NOTES

- 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.
- Connect the unit to an NTSC television. Do not connect the unit to a PAL television.

To connect to a TV with the component video input jacks

You can enjoy high picture quality by connecting the unit's COMPONENT VIDEO OUT jacks to the COMPONENT VIDEO IN jacks of your TV with the video cables.

Note that the COMPONENT VIDEO OUT jacks are not active in the initial (factory preset) condition. See below for details how to make them active.



• Connect "Y" to "Y," "PB" to "PB," "PR" to "PR" correctly.

<u>NOTE</u>

 When the component video input jacks of the TV is of the BNC type, use an adapter to convert a pin jack to a BNC jack (optional).

How to make the COMPONENT VIDEO OUT jacks active

Either the COMPONENT VIDEO OUT jacks or the S-VIDEO jack can be active. In the initial (factory preset) condition, the S-VIDEO jack is active while the COMPONENT VIDEO OUT jacks are not active.

To change the active jack(s) from the initial S-VIDEO to COMPONENT VIDEO, use the following procedure.

• When the unit is turned on

1 Press and hold down the ■ (STOP) button on the front panel when no disc is inserted or while the unit is stopped. "S-VIDEO" (the current setting) appears in the display window after a few seconds.

(Display Window)



2 Keep holding down the ■ (STOP) button on the front panel. After a few more seconds, "COMPONENT" replaces "S-VIDEO" in the display window. Now the COMPONENT VIDEO jacks are active.

(Display Window)

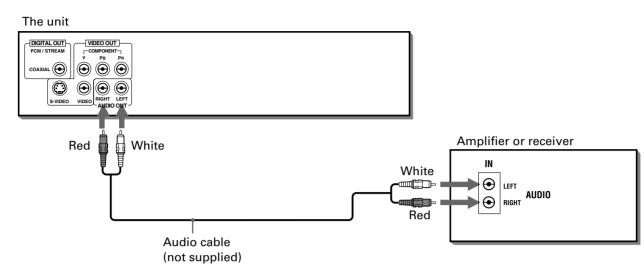


() Hints

• To change the active jack(s) from the COMPONENT VIDEO to the S-VIDEO jack, use the similar procedure.

To connect to an audio amplifier or receiver

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

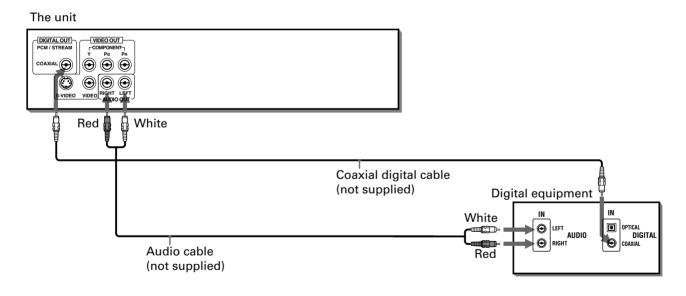


• Connect the unit's AUDIO OUT to any line-level inputs (such as AUX, DVD, CD, etc.) of an audio amplifier or receiver.

To connect to audio equipment with a digital input

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

When you make the digital connection, we recommend also to make the analog connection, because, depending on discs, no signal may be output from the DIGITAL OUT.



NOTES

- When you connect the unit's DIGITAL OUT to digital audio equipment, before using, make the "DIGITAL AUDIO OUTPUT" setting in the "AUDIO" page of the preference display correctly according to the connected audio equipment. If the "DIGITAL AUDIO OUTPUT" is not set correctly, loud noise may be generated from speakers, causing damage to your speakers. See "DIGITAL AUDIO OUTPUT" on page 37.
- With the digital connection, the COMPRESSION settings in the AUDIO page of the preference display are invalid. Settings for these items must be made from the decoder.

To connect the power cord

When all the audio/video connections have been made, insert the smaller plug of the supplied AC power cord to the unit's \sim AC IN connector, then insert the other end to the wall outlet. Make sure that plugs are inserted firmly. The STANDBY indicator lights and setup is completed.

Marning

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

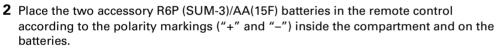
A Caution

- Do not damage, alter, twist, or pull the power cord, as this may cause fire, electric shock, or other accidents.
- To prevent any accidents or damages caused by an unsuitable AC power cord, only use the supplied power cord. If the cord is damaged, contact a dealer and get the new power cord.
- Do not put anything heavy, or the unit, on the power cord, as this may cause fire, electric shock, or other accidents.

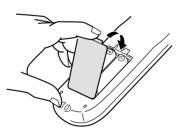
To install batteries in the remote control unit

The battery compartment is located on the back of the remote control unit.**1** Press down on the point shown by the arrow at the top of the compartment cover, and pull up the cover to open the compartment.





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



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

Precautions for the safe use of batteries

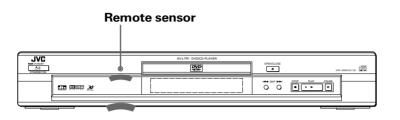
Observe the following precautions for the safe use of batteries. If they are used improperly their life will be shortened, they may burst or their contents may leak.

Precaution

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

Remote sensor

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





<u>NOTE</u>

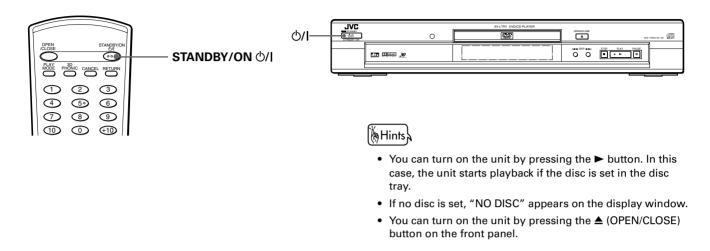
• If the remote sensor on the unit is exposed to the sunshine or strong light, you may not be able to control the unit from the remote control unit.

Basic operations

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

Turning on/off the unit

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

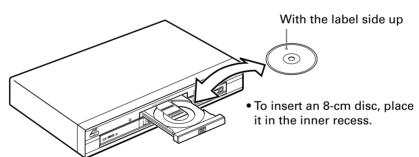


NOTE

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

Inserting and removing discs

- **1** Press **▲** (OPEN/CLOSE) to open the disc tray.
- **2** Place the disc in the tray.



3 Press \triangleq (OPEN/CLOSE) to close the disc tray.

Hints

If you press ▲ (OPEN/CLOSE) during playback, the unit stops playback and opens the tray.

NOTES

- The unit can playback DVD VIDEO, Audio CD, and Video CD discs only. Do not load other disc types. For details about playable disc types, see page 12.
- When loading a disc in the tray, be sure to position the disc inside the recess. Otherwise, the disc may be damaged when the tray is closed, and the disc may not be removed from the unit.

19

Basic playback

Now you can play a disc. First, let's enjoy simple playback according to following procedure.

To start playback

Press ►.

The unit starts playback from the beginning.

NOTES

- When the resume point is memorized, pressing > starts playback from that point instead • of the beginning. See page 20 and 39.
- During playback, the display window shows the title/chapter or track number being played.
- With Video CD discs with PBC control or some DVD discs, the menu display may appear on the TV screen after starting playback. In such a case, select an item to be played back from the menu.

For operation using a menu, see page 21.

With some DVD discs, the unit starts playback automatically after inserting the disc.

To stop playback completely

Press

The unit stops playback.

To stop playback temporarily

Press II.

The unit pauses playback. To resume playback, press ►.

To advance or reverse playback rapidly while monitoring

During playback

From the Remote control unit

Press $\triangleleft \triangleleft$ or $\triangleright \triangleright$.

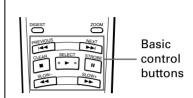
Each press of $\triangleleft q$ or $\triangleright \triangleright$ increases the playback speed. You can select the speed among 2x, 5x, 10x, 20x and 60x the normal speed.

Pressing ► returns the unit to normal playback.

From the Front panel

Hold down I or DII.

Holding down ►►I advances playback rapidly, while holding down I< reverses playback rapidly. The speed will change from 5x to 20x the normal speed if you keep holding down the button for a certain period of time. Releasing the button returns the unit to normal playback.



DVD VIDEO









Audio Video

*Take out the disc from the tray.

NOTES

- The resume function does not work with Audio CD discs.
- The resume function does not work if "RESUME" on the "SYSTEM" page of the preference display is set to "OFF".
- In the case of a Video CD disc with PBC function, the unit may resume playback from a point slightly earlier than the resume point you stored.
- · The resume function does not work in the program or random mode.

To locate the beginning of the scene or song

During playback

Press I

Press I do locate the beginning of the current chapter, title, or track, and press bit to locate the beginning of the next chapter, title or track.

NOTE

When you play a Video CD disc with the PBC function or a DVD VIDEO disc, the unit may locate a different place, but it will generally locate the beginning of the title, chapter or track.

Resuming playback

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

To memorize the interrupted position

- **1** Set the "RESUME" setting on the "SYSTEM" page of the preference display to "ON". (See page 39 for details about how to set.)
- 2 At the position you want to interrupt playback, press ■, or press STANDBY/ON \bigcirc / on the remote control or $\bigcirc/1$ on the front panel.

The unit memorizes the interrupted position.

Hints

• If you interrupt playback by pressing **I** in step 2 above and then turn off the power, the memory is not cleared.

To resume playback

• While the disc you interrupt playback last time is still in the disc tray

Press ►.

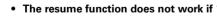
The unit starts playback from the position where you interrupted playback last time.

To clear the resume position memory

Carry out one of the followings.

*Press ■ while stopped.

*Turn on the unit by pressing STANDBY/ON \oplus /| (on the remote control) or \oplus /| (on the front panel).







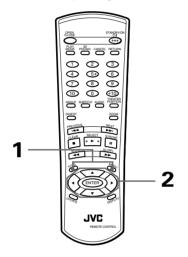


Playing from a specific position on a disc

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

To locate a desired scene from the DVD menu

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



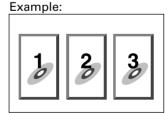
• Whenever a DVD VIDEO disc is loaded

1 Press TITLE or MENU.

The menu appears on the TV screen.

About menu

Normally, a DVD VIDEO disc which contains more than one title may have a "title" menu which lists the titles. In this case, the menu appears on the TV screen by pressing the TITLE button. Some DVD VIDEO discs may also have a different menu which appears by pressing the MENU button.



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

2 Use CURSOR ▲/▼/◄/► to select a desired item, then press ENTER.

The unit starts playback of the selected item.

Hints

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

NOTES

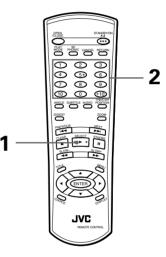
- When \bigotimes appears on the TV screen by pressing TITLE in step 1:

The disc does not have a menu listing the titles.

- When \bigotimes appears on the TV screen by pressing MENU in step 1:
- The disc does not have a menu.
- The MENU button does not work while stopped.

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

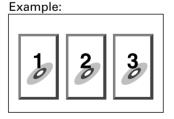
Some Video CD discs supports the PBC function. PBC is an abbreviation of "PlayBack Control." A Video CD disc recorded with PBC has its own menus, such as a list of the songs of the disc. You can locate a specific scene by using the menu.



• When a Video CD disc with PBC is stopped

1 Press ►.

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



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

2 Use the numeric buttons to select the desired item.

• See page 11 for details about how to use the numeric buttons.

The unit starts playback of the selected item. You can return to the menu by pressing the RETURN button. When "NEXT" or "PREVIOUS" appears on the TV screen, the unit generally works as follows:

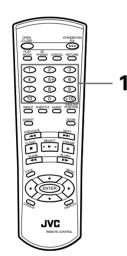
- Pressing ►►I advances to the next page.
- Pressing I returns to the previous page.
- * The method of the operation is different depending on the disc.

Hints

- To activate the PBC function when a PBC-compatible Video CD disc is being played back without the PBC function, press ■ then press ►.
- You can also activate the PBC function using the play mode menu display as follows.
 - 1 Press PLAY MODE.
- If you want to playback a PBC-compatible Video CD disc without activating the PBC function, start playback by using the numeric buttons instead of the ► button. See the next paragraph.

To locate a desired selection using the numeric buttons

You can play a desired title or chapter (DVD VIDEO) or track (Audio CD/Video CD) by specifying the number.



• For DVD VIDEO/Audio CD:

For Video CD:

During playback or while stopped During playback without PBC function or while stopped

1 Use the numeric buttons to specify the number.

- * During DVD VIDEO playback (except when a menu is shown), a chapter is specified.
- While a DVD VIDEO is stopped, a title is specified.
- For an Audio CD or Video CD, a track is specified.

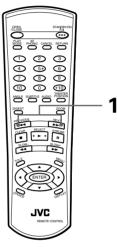
The unit starts playback from the beginning of the selection.

• See page 11 for details about how to use the numeric buttons.

NOTES

- During DVD VIDEO playback, if a menu is shown on the TV screen, the numeric buttons may be used for selecting an item in the menu.
- When () appears on the TV screen: The title or track you have selected is not contained in the disc.
- This function does not work during Video CD playback with PBC function.

To locate a desired selection using I ◄ Or ►►I I ■ I



 For DVD VIDEO: Dur For Audio CD: Dur For Video CD: Dur

During playback During playback During playback without PBC function

1 Press I or DI.

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

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

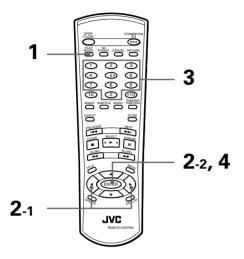
- To locate a subsequent selection, press ►►I once or repeatedly until the desired selection number appears in the display.
- To locate to beginning of the current selection, press I a once.
- To locate a former selection, press I repeatedly until the desired selection number appears in the display.

NOTES

- This function may not work with some DVD VIDEO discs.
- This function does not work during Video CD playback with PBC function.

To locate a desired scene by specifying the chapter number [CHAP.SEARCH]

If the current title of a DVD VIDEO disc being played is divided into chapters, you can skip to a desired chapter by specifying the chapter number using the on-screen display.

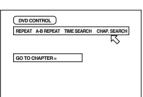


- During DVD VIDEO playback
 - **1** Press PLAY MODE.

The DVD play mode menu appears on the TV screen.

2 Use CURSOR ◄/► to move ा to [CHAP. SEARCH], then press ENTER.

"GO TO CHAPTER =" appears under the menu.



3 Use the numeric buttons (0 to 9) to enter the desired chapter number.

Example:

```
To select chapter number 8: 
Press "8" \rightarrow ENTER.
To select chapter number 37:
Press "3" \rightarrow "7" \rightarrow ENTER.
```

4 Press ENTER.

The unit starts playback from the selected chapter.

Hints

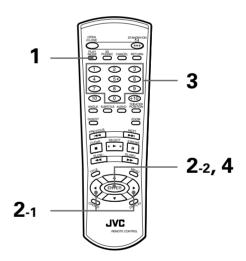
• The "10" and "+10" buttons are not used in this function.

NOTES

- You can also locate a desired chapter directly by specifying the chapter number using the numeric buttons during playback (except when a menu is shown). See page 22.
- When the chapter number is incorrect in step 3: Overwrite the incorrect number with the correct number.
- When 🚫 is displayed in the TV screen in step 4: The chapter you have selected is not contained in the disc, or chapter search does not work on the disc.
- To turn off the play mode menu: Press PLAY MODE.

To locate a desired position in the current title or track [TIME SEARCH]

You can play a disc from the desired position by specifying the elapsed time from the beginning of the current title or track using the TIME SEARCH function. Note that some DVD VIDEO discs do not contain time information, and the TIME SEARCH function cannot be used.



- Advance
- For DVD VIDEO: During playback
 For Audio CD: During playback
 For Video CD: During playback without PBC function
 - **1** Press PLAY MODE.

The play mode menu appears on the TV screen.

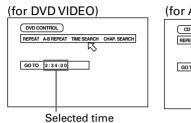
2 Use CURSOR ◄/► to move ^{\[\]} to [TIME SEARCH], then press ENTER. "GO TO" appears under the menu.

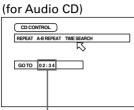
3 Use the numeric buttons (0 to 9) to enter the time.

You can specify the elapsed time of the current title or track to set the location which you want to playback from.

4 Press ENTER.

The unit starts playback from the specified time.





Selected time

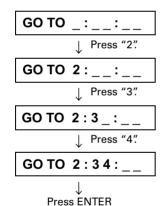
AHints

- "10" and "+10" buttons are not used in this function.
- You can specify the time in hour/minute/second format for DVD VIDEO discs, and in minute/ second format for Audio and Video CD discs.



Selected time

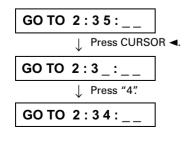
Example (for DVD VIDEO) To playback from 2(H):34(M):00(S)



You do not have to press "0" to enter the trailing zeros (for the last two digits in the example above). Of course, it is possible to enter them.

• When you make a mistake

Move the cursor to the incorrect value, then press the correct button to re-select the value.



NOTES

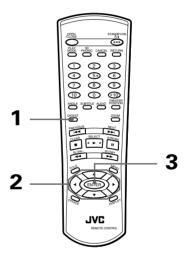
• When (\cappears on the TV screen in step 2: The time you have selected is not contained on the disc,

or the time search function does not work on the disc. Also note that the time search function does not work during Video CD playback with the PBC function.

- To turn off the play mode menu: Press PLAY MODE.
- The TIME SEARCH function cannot be used during program playback.

To locate a desired scene from the display [DIGEST]

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



- For DVD VIDEO: For Video CD:
- While stopped or during playback While stopped or during playback without PBC function

1 Press DIGEST.

Up to nine opening scenes are displayed.

- While a DVD VIDEO disc is stopped: The opening scene of each title appears on the TV screen.
- During DVD VIDEO disc playback: The opening scene of each chapter in the current title appears on the TV screen.
- When a Video CD disc is loaded: The opening scene of each track appears on the TV screen.



2 Use CURSOR ▲/▼/◄/► to select the desired scene.

The selected scene is indicated by $\ensuremath{\mathbb{R}}\xspace.$

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



Selected scene



- When the lower right scene is selected, pressing CURSOR
 ► advances to the next page if available. Similarly, when the upper left scene is selected, pressing CURSOR
 returns to the previous page (if available).
- When there are more than one digest page, after pressing DIGEST, pressing ►►I before all 9 scenes of the first page appear on the TV screen will advance to the next page. Similarly, pressing I<< before all the scenes of the second or latter page appear on the TV screen will return to the previous page.

3 Press ENTER.

The unit starts playback from the selected scene.

<u>NOTE</u>

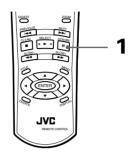
• With some discs, depending on the contents, it may take some time until all the scenes appear on the screen.

Special picture playback

The unit provides special picture playback functions including Frame-by-frame, Strobe, Slow-motion and Zoom.

To advance a still picture frame-by-frame



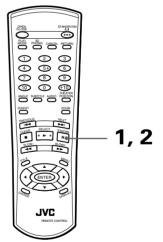


- While paused (still)
 - 1 Press II.

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

Pressing \blacktriangleright returns to normal playback.





Advanced

- During playback
 - 1 At the point you want to view as continuous photographs, press **■**.

The unit pauses playback.

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

Nine continuous still pictures appear on the TV screen.

| Â | P | P |
|---|---|----------|
| A | X | Â |
| Å | X | R |

(`∭e Hints}

- Pressing II when the nine still pictures is shown will advance to the next nine still pictures.
- Pressing ► when the nine still pictures is shown will advance pictures in normal playback speed.

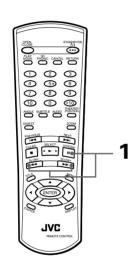
• To cancel strobe play

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

<u>NOTE</u>

• If you press and hold **II** for more than 1 second during playback, nine still pictures also appear but they advance in normal playback speed.

To playback in slow-motion [SLOW]



Advanced

During playback

1 Press Ⅲ, then use ◄◄/►►.

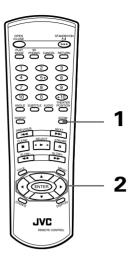
To play forward slow-motion, press ►►, and to play reverse slow-motion (for DVD VIDEO discs only), press ◄◄. First, the unit plays the slowest speed, and each time you press the button, the playback speed increases.

- To return to normal playback Press ►.
- To pause slow-motion playback Press II.

NOTES

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

To zoom a scene [ZOOM]



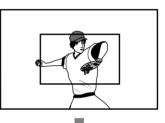
DVD Video

• During playback or while paused

1 Press ZOOM.

DVD Video VIDE0 CD

> "ZOOM" appears on the TV screen. The unit zooms in to the center part of the scene to produce a double-sized image.





2 Use CURSOR ▲/▼/◄/► to move the zoomed-in position.



• To return to normal playback Press ZOOM.

NOTE

• While zoomed, the picture may look coarse.

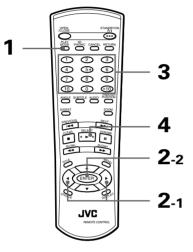
Changing the playback order

You can play titles or tracks on a disc in the desired order or in random order.

To playback in the desired order [PROGRAM]

VD Audio Video DEO CD CD

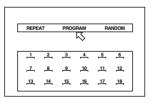
You can play titles or tracks on a disc in the desired order by using the Program function.



- While stopped
 - 1 Press PLAY MODE.

The play mode menu appears on the TV screen.

2 Use CURSOR ◄/► to move 尽 to [PROGRAM] and press ENTER.



The program table appears under the menu bar (as shown above).

The "PROGRAM" indicator appears in the display window on the front panel.

3 Specify the titles or tracks in the desired order using the numeric buttons.

See page 11 for details about how to use the numeric buttons.

Up to 18 titles or tracks can be programmed. You may select the same title or track more than once.



The programmed title/track number is shown under each program number.

- If you specify a wrong selection Press CANCEL. The last selection programmed is erased.
- To clear the program Press ■.

4 Press ► to start program play.

When all of the programmed titles/tracks have finished playback, the unit stops but the program remains.

NOTES

- Some DVD VIDEO discs may not be played back correctly in program mode.
- During program playback, pressing ►► skip to the next selection of the program. Pressing I ◄◄ returns to the beginning of the current selection, however, you cannot skip back to the previous selection.
- By pressing PLAY MODE during program playback, the program table is displayed on the TV screen and the current program number is indicated in yellow.

• To quit program playback

Press ■ while stopped. The "PROGRAM" indicator in the display window turns off.

Note that the program remains.

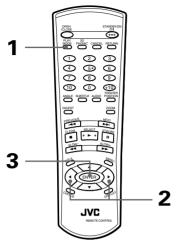
To clear the program, press ■ while the program table is shown on the TV screen.

∰ Hints }

• While stopped and the play mode menu is displayed on the TV screen, by moving 𝔅 to [PROGRAM] and pressing ENTER, the program mode quits. Note that the program remains.



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



- While stopped
 - 1 Press PLAY MODE.

The play mode menu appears on the TV screen.

2 Use CURSOR ◄/► to move [□] to [RANDOM].



3 Press ENTER.

The unit starts random playback. The "RANDOM" indicator appears in the display window on the front panel. After playing all titles/ tracks of the disc, random playback ends.

Hints

- The same title or track will not be played back more than once during random play.
- To stop/quit random playback in the middle

Press ■ to stop playback. The unit is still in random playback mode, so pressing ► starts random playback again.

To quit random playback, press ■ again while stopped. The "RANDOM" indicator in the display window turns off.

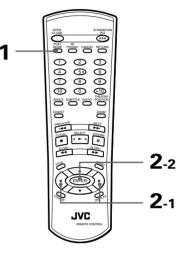
<u>NOTE</u>

• Some DVD VIDEO discs may not be played back correctly in the random mode.

Repeat playback

You can repeat playback of the current selection or all disc contents (except DVD VIDEO). You can also repeat playback of a desired part.

| To repeat the current se | lection or all |
|--------------------------|------------------------------------|
| tracks [REPEAT] | DVD VIDE0Audio CDVideo CD |



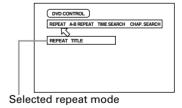
- For DVD VIDEO: During playback For Audio CD/Video CD: In any condition except Video CD playback with PBC
 - **1** Press PLAY MODE.

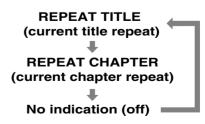
The play mode menu appears on the TV screen.

2 Use CURSOR ◄/► to move ^{IC} to [REPEAT], then press ENTER.

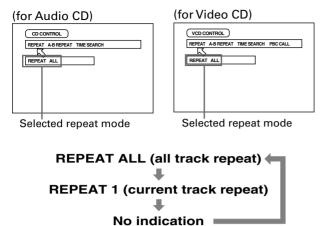
Each time you press ENTER, the repeat mode changes as follows depending on the disc type and unit's status:

• During DVD VIDEO playback





Audio CD/Video CD



Hints

 If you press ■ in REPEAT ALL or REPEAT 1 mode, the unit stops playback but remains in the mode.

(off)

• If you press ■ in REPEAT TITLE or REPEAT CHAPTER mode, the unit stops playback and guits the mode.

To quit repeat playback

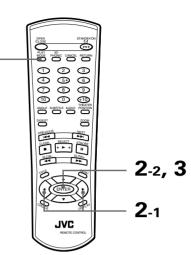
With \square pointed at [REPEAT], press ENTER repeatedly until the mode is set to off.

NOTES

- Some DVD VIDEO discs do not allow the title repeat or/ and chapter repeat.
- Some DVD VIDEO discs automatically stops playback in the middle of the disc.
- · Repeat playback function cannot be used during Video CD playback with PBC function.
- To turn off the play mode menu display Press PLAY MODE.

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





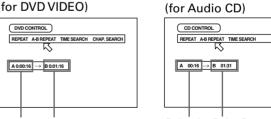
- During playback
 - Press PLAY MODE.

The play mode menu appears on the TV screen.

- **2** Use CURSOR $\triangleleft \vdash$ to move \square to [A-B REPEAT], then press ENTER at the beginning of the part you want to repeat (point A). Make sure that the REPEAT mode is off. If any REPEAT mode is selected, you cannot move IS to [A-B REPEAT].
- **3** Press ENTER at the end of the part you want to repeat (point B).

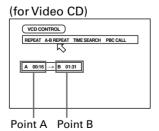
The unit locates "A" and starts repeat playback between "A" and "B."

(for DVD VIDEO)



Point A Point B

Point A Point B



To quit A-B repeat playback

Press ■. The unit stops playback and quits A-B repeat mode.

🖗 Hints 🖌

- During playback, pressing ENTER when 𝔅 is pointed at [A-B REPEAT] quits A-B repeat mode and continues playback.
- You can also quit A-B repeat mode by pressing I or ►►I.

NOTES

- To turn off the play mode menu Press PLAY MODE.
- If () appears when pressing ENTER in step 2 during DVD VIDEO playback

You cannot repeat the selected portion because of the disc contents.

• The A-B REPEAT function cannot be used during program playback.

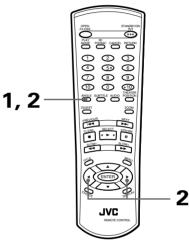
Selecting a scene angle of DVD VIDEO

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

🖗 Hints 🛓

 At the beginning of a "multi-angle" part, ²⁰ appears on the TV screen.

To select a scene angle from the normal screen [ANGLE]



- During DVD VIDEO playback
 - **1** Press ANGLE.

The Angle selection display appears on the TV screen.



2 Use ANGLE or CURSOR *◄*/► to select the desired angle.

Each time you press ANGLE or CURSOR $\triangleleft/\triangleright$, the angle changes.

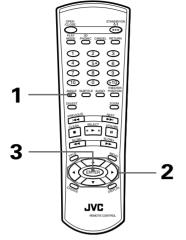
Example: 1 / 3 2 / 3 3 / 3

NOTES

- The Angle selection display will automatically disappear if you do not change the angle for 10 seconds.
- To turn off the Angle selection display manually, press ENTER.
- When \bigotimes appears on the TV screen

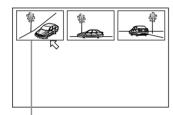
The current scene is not recorded from multiple angles.

To select a scene angle from the angle list display [ANGLE]



- During DVD VIDEO playback
 - **1** Press and hold ANGLE for more than 1 second.

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



The selected camera angle

- 2 Use CURSOR ▲/▼/◄/► to select the desired angle.
- **3** Press ENTER.

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

NOTES

- When

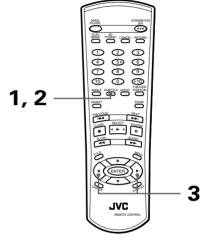
 appears on the TV screen in step 1:

 The current scene is not recorded from multiple angles.
- During the operation above, audio is muted.

Changing the language and sound

For DVD VIDEO discs, you can select the subtitle language, as well as the audio language/sound included on a disc. For Video CD discs, you can select the audio channel(s).

To select the subtitle language [SUBTITLE]



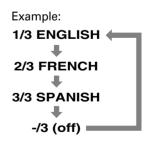
- During DVD VIDEO playback
 - **1** Press SUBTITLE.

The Subtitle selection display appears on the TV screen.



- **2** To turn the subtitle on and off, press SUBTITLE.
- **3** To select the desired subtitle language, use CURSOR *◄/►*.

Each time you press CURSOR ◄/►, the subtitle language changes.

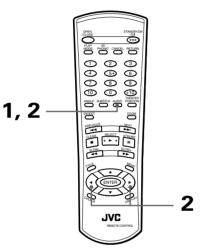


NOTES

- For DVD VIDEO, the selected language may be abbreviated on the TV screen. See "Appendix A: Table of languages and their abbreviations" at the end of this manual.
- The Subtitle selection display will automatically disappear if you do not change the subtitle for 10 seconds.
- To turn off the Subtitle selection display manually, press ENTER.
- When () appears on the TV screen: You cannot select the subtitle.

To change the audio language or sound [AUDIO]

By AUDIO selection, you can choose the audio language of movies or choose to enjoy KARAOKE with or without the vocal.



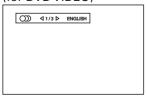
Advance oneratio

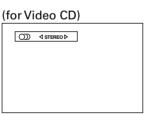
During playback

1 Press AUDIO.

The Audio selection display appears on the TV screen.

(for DVD VIDEO)





2 Use AUDIO or CURSOR ◄/► to select the desired audio.

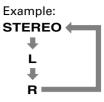
• For DVD VIDEO

Each time you press AUDIO or CURSOR ◀/►, the audio language or sound changes.

| Example: |
|-------------|
| 1/3 ENGLISH |
| + |
| 2/3 FRENCH |
| + |
| 3/3 SPANISH |

• For Video CD

Each time you press AUDIO or CURSOR ◄/►, the playback audio changes as follows.



NOTES

- For DVD VIDEO, the selected language may be abbreviated on the TV screen. See "Appendix A: Table of languages and their abbreviations" at the end of this manual.
- The Audio selection display will automatically disappear if you do not change the audio for 10 seconds.
- To turn off the Audio selection display manually, press ENTER.
- When \bigotimes appears on the TV screen (for a DVD VIDEO disc):

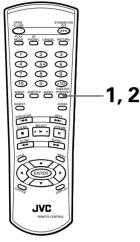
You cannot select the audio.

Selecting the picture character

You can select the picture character from among four options according to the source program, lighting condition of the room and/or personal preference.

To select the picture character [THEATER POSITION]





- During playback
 - **1** Press THEATER POSITION.

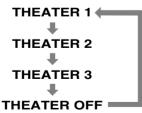
The theater position display appears on the TV screen.

2 Select the desired theater position by using THEATER POSITION.

Each time you press the THEATER POSITION button, the picture character changes as follows:



Selected picture character



"THEATER OFF" is the normal position. Selecting a higher number tones down the picture character.

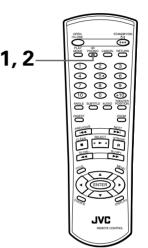
NOTES

- The theater position display will automatically disappear if you do not change the theater position for 5 seconds.
- To turn off the theater position display manually, press ENTER.

Enjoying virtual surround sound

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





- During playback
 - **1** Press 3D PHONIC. The 3D PHONIC display appears on the TV screen.
 - **2** Select the desired mode by using 3D PHONIC Each time you press the 3D PHONIC button, the 3D PHONIC mode changes as follows:



Selected effect mode



• ACTION

Suitable for action movies and sports programs in which sounds dynamically move.

• DRAMA

Natural and warm sound. You can enjoy movies in a relaxed mood.

THEATER

You can enjoy sound effects like in a major theater in Hollywood.

 When you play a DVD VIDEO disc recorded in Dolby Digital which contains more than 3 channels, ACTION does not appear.

NOTES

- The 3D PHONIC display will automatically disappear if you do not change the 3D PHONIC for 5 seconds.
- To turn off the 3D PHONIC display manually, press ENTER.
- With a Video CD disc, if the Audio setting is set to L or R, you cannot activate the 3D PHONIC function (i.e the 3D PHONIC mode is fixed to OFF).

Conversely, when the 3D PHONIC function is active, changing the AUDIO setting to L or R from STEREO cancels the 3D PHONIC function.

 The 3D PHONIC function works correctly when playing back discs recorded in the Dolby Surround or Dolby Digital 5.1-CH format.
 It also works when playing back discs other than those

above, but does not provide the correct effect.

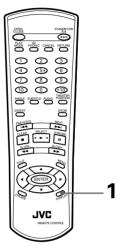
- The 3D PHONIC function does not affect the DTS or Dolby Digital bitstream signal from the DIGITAL OUT jack.
- The sound effect will not be set or operate, even if 3D PHONIC is pressed, for the sound of DVD VIDEO discs recorded in Linear PCM.
- When you set the 3D PHONIC function to on, the DOWN MIX and COMPRESSION settings in the AUDIO page of the preference display are disabled.

Checking the status

You can view the disc/time information, as well as the DVD functions status on the TV screen.

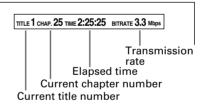
To check the disc/time information



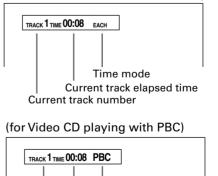


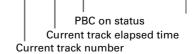
- During playback
 - **1** Press DISPLAY once for a Audio CD or Video CD disc, or twice for a DVD VIDEO disc. The disc/time display appears on the TV screen.

(for DVD VIDEO)



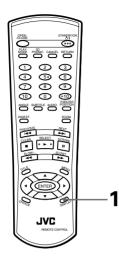
(for Audio CD or Video CD without playing PBC)





 To turn off the disc/time display Press DISPLAY.

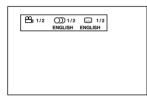
To check the DVD function status



• During DVD VIDEO playback

1 Press DISPLAY.

The DVD function status display appears on the TV screen.



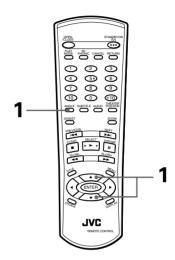
The current selections of the camera angle, audio language and subtitle language are shown.

• To turn off the DVD function status display Press DISPLAY twice.

To dim the brightness of the display window

You can dim the brightness of the display window.

Dimming brightness of the display window



- When no disc is inserted or while stopped
 - **1** Press CURSOR ▼ while holding down ANGLE.

You can set the brightness from among three levels. Each press of the button makes the display window darker.

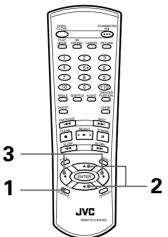
To restore the display window brighter, press CURSOR \blacktriangle .

Selecting preferences

You can set various preferences for playback via four dedicated displays.

How to set preferences

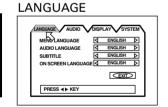
Note that you cannot bring up a preference display during playback or when an Audio CD is loaded in the tray.



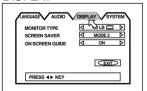
• When no disc is inserted in the tray, or when a DVD VIDEO or Video CD is inserted and stopped

1 Press CHOICE.

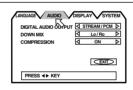
One of the preference pages appears on the TV screen. There are four preference pages: LANGUAGE, AUDIO, DISPLAY and SYSTEM. To turn the page, move ⊲ to the desired tab using CURSOR ◄/►.



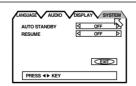
DISPLAY



AUDIO



SYSTEM



2 Move $\langle \neg \rangle$ to select the item you want to set by using CURSOR $\blacktriangle / \blacktriangledown$.

| | DISP | | STEM | |
|--------------------|------|---------|------|--|
| MENU LANGUAGE | ∢ | ENGLISH | _⊵K | |
| AUDIO LANGUAGE | ∢ | ENGLISH | _⊳` | |
| SUBTITLE | ∢ | ENGLISH | ⊳ | |
| ON SCREEN LANGUAGE | ∢ | ENGLISH | ⊳ | |
| | | CEXIT | ≥ | |
| PRESS 4 KEY | | | | |
| | | | | |

- 3 Press CURSOR *◄/►* to select the setting you want.

 - For details about each setting, see the following paragraphs:

LANGUAGE page

MENU LANGUAGE

You can select the default "display" language to be displayed if it is contained on the disc.

Each time you press CURSOR ►, the language setting changes in the following order:

| | PLAY |
|---------------------------|-----------|
| MENU LANGUAGE | |
| AUDIO LANGUAGE | ENGLISH D |
| SUBTITLE 4 | ENGLISH D |
| ON SCREEN LANGUAGE | ENGLISH > |
| | |
| PRESS <> KEY | |

$\begin{array}{l} \text{ENGLISH} \to \text{SPANISH} \to \text{FRENCH} \to \text{CHINESE} \to \\ \text{GERMAN} \to \text{ITALIAN} \to \text{JAPANESE} \to \text{language code} \\ \text{from AA to ZU} \end{array}$

(See "Appendix A: Table of languages and their abbreviations" at the end of this manual.)

Pressing CURSOR \blacktriangleleft changes the language setting in the reverse order of the above.

* If the selected language is not recorded, the disc's default display language will be displayed.

AUDIO LANGUAGE

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

Each time you press CURSOR ►, the language setting changes in the following order:

| AUDIO LANGUAGE | - | INGLISH | ₩ |
|--------------------|------------|---------|---|
| SUBTITLE | ۹ | NGLISH | Þ |
| ON SCREEN LANGUAGE | م ا | NGLISH | ⊳ |
| | | EXIT | Σ |
| PRESS 4 KEY | | | ٦ |

 $\begin{array}{l} \text{ENGLISH} \rightarrow \text{SPANISH} \rightarrow \text{FRENCH} \rightarrow \text{CHINESE} \rightarrow \\ \text{GERMAN} \rightarrow \text{ITALIAN} \rightarrow \text{JAPANESE} \rightarrow \text{language code} \\ \text{from AA to ZU} \end{array}$

(See "Appendix A: Table of languages and their abbreviations" at the end of this manual.)

nitial setting

Pressing CURSOR \triangleleft changes the language setting in the reverse order of the above.

* If the selected language is not recorded, the disc's default audio language will be played.

SUBTITLE

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

Each time you press CURSOR ►, the language setting changes in the following order:

| MENU LANGUAGE | 🗘 ENGLISH 🕨 |
|--------------------|---------------|
| AUDIO LANGUAGE | 🗸 ENGLISH Þ |
| SUBTITLE | ol english ⊳K |
| ON SCREEN LANGUAGE | 🖞 ENGLISH 🕨 |
| | EXID |
| PRESS <> KEY | |

$\begin{array}{l} \mathsf{ENGLISH} \to \mathsf{SPANISH} \to \mathsf{FRENCH} \to \mathsf{CHINESE} \to \\ \mathsf{GERMAN} \to \mathsf{ITALIAN} \to \mathsf{JAPANESE} \to \mathsf{language} \ \mathsf{code} \\ \mathsf{from} \ \mathsf{AA} \ \mathsf{to} \ \mathsf{ZU} \end{array}$

(See "Appendix A: Table of languages and their abbreviations" at the end of this manual.)

Pressing CURSOR \triangleleft changes the language setting in the reverse order of the above.

* If the selected language is not recorded, the disc's default subtitle language will be displayed.

ON SCREEN LANGUAGE

You can select the on-screen display language to be displayed.

Each time you press CURSOR ►, the language setting changes as follows:

| | ESPAÑOL (Spanish) FRANCAIS (French) |
|---------|--|
| English | ON SCREEN LANGUAGE |
| Spanish | IDIOMA EN PANTALLA |
| French | |

Pressing CURSOR \triangleleft changes the language setting in the reverse order of the above.

AUDIO page

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.

| | PLAY |
|---|--------------|
| DIGITAL AUDIO OUTPUT ④ DOWN MIX ④ COMPRESSION ④ | STREAM/PCM D |
| | |
| PRESS 4 KEY | |
| | |

• PCM ONLY

When you connect the DIGITAL OUT jack of the unit to the linear PCM digital input of other audio equipment.

STREAM/PCM

When you connect to the digital input of an amplifier with a built-in DTS, Dolby Digital, or MPEG Multichannel decoder.

• DOLBY DIGITAL/PCM

When you connect to the digital input of a Dolby Digital decoder, or an amplifier with a built-in Dolby Digital decoder.

The following chart shows the relationship between types of playback discs and output signals.

| | Output | | |
|---|---|---|--|
| Playback discs | STREAM/ PCM | DOLBY DIGITAL/ PCM | PCM ONLY |
| DVD with 48/44.1 kHz, 16 bit linear PCM | 48/44.1 kHz, 16 bit, stereo linear PCM | ← | ← |
| DVD with 48/44.1 kHz, 20/24 bit linear PCM | 48/44.1 kHz, 16 bit, stereo linear PCM* | - | ← |
| DVD with 96 kHz, linear PCM | No output | + | + |
| DVD with DTS | DTS bitstream | No output | + |
| DVD with Dolby Digital | Dolby Digital bitstream | ← | 48 kHz, 16 bit, stereo linear PCM* |
| DVD with MPEG Multichannel | MPEG bitstream | 48 kHz, 16 bit, stereo linear PCM | + |
| Video CD | 44.1 kHz, 16 bit, stereo linear PCM | ← | + |
| Audio CD | 48 kHz,16 bit, stereo linear PCM | ← | + |
| Audio CD with DTS | DTS bitstream | + | + |

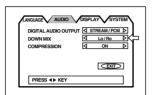
 With some DVD VIDEO discs that are not fully copyprotected, a 20 or 24 bit digital signal may be output.

NOTES

- 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. Never use the unit's analog output jacks, which output incorrect signals that may damage your speakers.
- If you connect the analog outputs and digital outputs simultaneously, be sure to select the source of the amplifier correctly, or set the level control of the amplifier connected to the analog outputs to minimum.

DOWN MIX

To playback a DVD VIDEO disc recorded with surround multichannel audio correctly, the DOWN MIX setting must be properly made according to your audio system.



Note that this setting affects the output signal from the AUDIO (both DIGITAL and ANALOG) output jacks when playing back a DVD VIDEO disc recorded with surround multichannel audio.

• Lt/Rt

When you enjoy multichannel surround audio by connecting the unit's AUDIO output (normally, the DIGITAL output) to a surround decoder.

• Lo/Ro

When you enjoy conventional 2-channel stereo audio by connecting the unit's AUDIO output to a stereo amplifier/receiver or television set, or when you duplicate audio of a DVD VIDEO disc recorded with surround audio to your MD, cassette, etc.

NOTES

- The Down mix function does not work when the 3D PHONIC function is activated.
- The DOWN MIX setting does not affect an MPEG or Dolby Digital bitstream signal from DIGITAL OUT.
 To enjoy the DOWN MIX effect from DIGITAL OUT when playing back a disc recorded with the MPEG Multichannel or Dolby Digital format, set "DIGITAL AUDIO OUTPUT" to "PCM ONLY" (see page 37).
- When playing back a disc recorded with DTS, you cannot get the DOWN MIX effect from both DIGITAL and ANALOG outputs.

COMPRESSION

You can compress the dynamic range of the sound if needed. Using this function, you can listen to sound at low volumes easily.

| 1 | |
|--------------|-----------|
| DOWN MIX | ⊲ Lo/Ro Þ |
| COMPRESSION | ⊲ on Þ¢ |
| | |
| | (EXIT) |
| | |
| PRESS ◀► KEY | |

ON

Audio is played back with the dynamic range compressed.

• OFF

Audio is played back as it was recorded.

NOTES

- The Compression function works only when playing back a disc recorded with DOLBY DIGITAL 1CH or 2CH. The setting is not effective for other discs.
- The Compression function does not work when the 3D PHONIC function is activated.

DISPLAY page

MONITOR TYPE

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

| MONITOR TYPE | LANGUAGE AUDIO | DISPLAY |
|--------------|----------------|----------|
| | SCREEN SAVER | MODE 2 D |
| | PRESS 4> KEY | |

• 4:3 LB. (Letter Box Conversion)

When you connect a normal TV to the unit. When you play a wide picture recorded on a DVD VIDEO disc, the picture is displayed with bands across the upper and lower portions of the screen.



• 4:3 PS. (Pan Scan Conversion)

When you connect a normal TV to the unit. When you play a wide picture recorded on a DVD VIDEO disc, a portion of the picture is automatically cut off from the left and right sides of the image.

Depending on the disc, it may not be possible to playback in this mode. In that case, the picture is played back as in 4:3 LB. ____ mode.



• 16:9 WIDE (Wide Television screen)

When you connect a wide-screen TV to the unit.



SCREEN SAVER

A television monitor screen may be burned out if a static picture 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.

• MODE 1

The current picture gets dark.

MODE 2

The "screen saver" picture appears and its brightness changes.

| | DISPLAY |
|---|---------|
| MONITOR TYPE SCREEN SAVER ON SCREEN GUIDE | |
| | EXID |
| PRESS ◀► KEY | |
| | |

• OFF

The screen saver function is off.

NOTES

- The monitor screen of a projector or projection TV is easily burned out if the screen saver mode is set to OFF and a static picture is displayed for a long time.
- The screen saver function is not activated when the selected disc is an Audio CD.

ON SCREEN GUIDE

The unit can display "onscreen guide" icons or characters on the picture, which show what is happening to the disc or the unit.

| MONITOR TYPE SCREEN SAVER ON SCREEN GUIDE | DISPLAY SYSTEM |
|---|----------------|
| | |
| PRESS I KEY | |

• ON

The on-screen guide will be displayed.

• OFF

The on-screen guide will not be displayed. Examples of "on-screen guide" icons or characters:

🕰 ,)), 🛄

SYSTEM page

AUTO STANDBY

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

• 60

Time is set to 60 minutes.

• 30

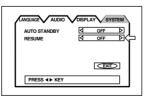
Time is set to 30 minutes.

• OFF

The auto standby function is off.

RESUME

You can select the resume function to be on or off. See page 20.



SYSTE

Pressing ► while stopped or on standby starts playback from the resume point if it is memorized.

• OFF

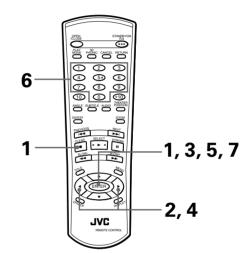
• ON

Pressing ► while stopped or on standby starts playback from the beginning of the disc.

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 [PARENTAL LOCK]



- While a DVD VIDEO disc is stopped or no disc is inserted
 - 1 Press ENTER while holding down on the remote control unit.

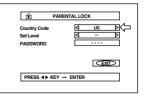
The Parental Lock on-screen display appears on the TV screen.

∠ points [Country Code].

2 While <□ points [Country Code], use CURSOR </► to select the "US" for country code.

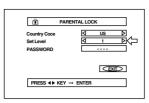
The country code whose standards were applied to rate the DVD VIDEO disc should be selected. See "Appendix B: Country code list for Parental

See "Appendix B: Country code list for Parental Lock".

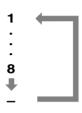


3 Press ENTER.

 $\bigtriangledown \square$ moves to [Set Level].



Each time you press CURSOR ◄/►, the parental level changes as follows:



Hints

• "1" is the strictest level. "–" means no restriction. Discs rated higher than the selected level are restricted.

5 Press ENTER.

- $\langle \neg$ moves to [PASSWORD].
- 6 Enter your 4-digit password using the numeric buttons (0 to 9).



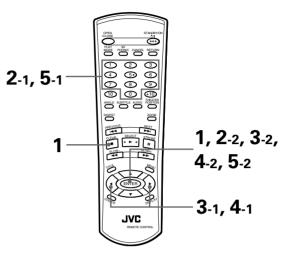
7 Press ENTER.

() Hints

 If you enter an undesired password in step 6 above, reenter the password before pressing ENTER.

To change the settings [PARENTAL LOCK]

You can change the Parental Lock settings later.



• While a DVD VIDEO disc is stopped or no disc is inserted

1 Press ENTER while holding down ■ on the remote control unit.

The Parental Lock onscreen display appears on the TV screen. points [PASSWORD].



DVD VIDEO

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

3 To change the country code, use CURSOR </► to select the desired country code and press ENTER.

⊲ moves to [Set Level]. When you change the country code, you must select the parental level.

5 Enter the password using the numeric buttons (0 to 9) and press ENTER.

 $\langle \neg$ moves to [EXIT].

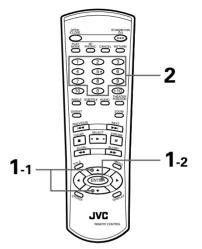
The password entered in the above step becomes the new password. If you do not change the password, enter the same password as in the step 2. Even if you want to change only the country code and/or parental level, do not forget to enter the password after changing the country code and/or parental level. Otherwise, the new country code and/or parental level will not become effective. Pressing ENTER again returns to the opening display.

NOTES

- If you forget your password in step 2 Enter "8888."

To temporarily release the Parental Lock [PARENTAL LOCK]

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



1 Use the CURSOR ▲/▼ to move <> to [YES], then press ENTER.

| PARENTA | LLOCK |
|----------------|-------------|
| This DISC can' | t play now! |
| Temporary | YES |
| Level Change ? | NO |
| PASSWORD | |
| PRESS ENTER | EXECUTE |

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

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

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

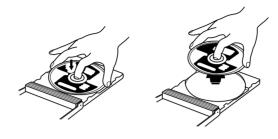
NOTE

 When you enter the wrong password more than 3 times in step 2 above, <
 moves to [NO] automatically and CURSOR ▲/▼ do not work.

Care and handling of discs

How to handle discs

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



Label side

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

Storage

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

Maintenance of discs

If there are fingerprints or other dirt adhering to a disc, wipe with a soft dry cloth, moving from the center outwards. If a disc is difficult to clean, wipe with a cloth moistened with water. Never use record cleaners, petrol, alcohol or any anti-static agents.



CAUTION

Sometimes during play noise or images may be garbled. This is sometimes due to the disc. (It may not be up to industry standards.)

These symptoms are caused by the discs, not by the malfunction of the unit.

Troubleshooting

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

| Symptom | Possible case | Remedy |
|---|--|--|
| Power does not come on. | Power plug is not inserted securely. | Plug in securely. |
| | Too far from the unit. | More closer to the unit. |
| Remote control does not work. | The tip of the remote unit is not pointed in the right direction. | Point the infrared light- emitting window toward the remote sensor on the front panel. |
| nemote control does not work. | Batteries are exhausted. | Replace the batteries with new ones. |
| | Battery polarity is incorrect. | Take out the batteries and insert them again in the correct direction. |
| | Connection of video cable is incorrect. | Connect the cable correctly. |
| No picture is displayed on the monitor. | Input selection of TV is incorrect. | Select correctly. |
| | Disc is not playable. | Use a playable disc. (See page 12.) |
| No picture is displayed on the monitor when using the COMPONENT or S-VIDEO output jack(s). | Jack(s) at use is (are) not active. | Make them active. (See page 14.) |
| 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. |
| No oudio io ronnoducod | Connection is incorrect. | Check the connections. |
| No audio is reproduced. | Input selection of amplifier is incorrect. | Select correctly. |
| No audio is reproduced when playing back a DVD disc recorded with 96 kHz, linear PCM audio. | The audio signal is not derived from the unit's DIGITAL OUT. | Use the AUDIO OUT when playing back such discs. |
| Sound is distorted or noise is generated. | Disc is dirty. | Wipe the disc surface. |
| Picture does not fit the television | MONITOR TYPE is not correctly set. | Select monitor type correctly. (See page 38.) |
| screen. | Television is not correctly set. | Set the television correctly. |
| | Microcomputer malfunction due to lightning or static electricity. | Turn off the power and unplug the power cord, then connect the power cord again. |
| Operation is not possible. | Moisture condensation caused by a sudden change of temperature or humidity. | Turn off the power, then turn it on a few hours later. |

Specifications

General

Readable discs: Video format:

DVD VIDEO, Audio CD, Video CD NTSC

Other

Power requirements: AC 120 V 🔨 , 60 Hz 16 W (POWER ON), 2.2 W (STANDBY mode) Power consumption: Mass: 2.6 kg (5.8 lbs) Dimensions ($W \times H \times D$): 435 mm x 68 mm x 267.5 mm (17-3/16 inch x 2-11/16 inch x 10-9/16 inch)

Video outputs

| COMPONENT (pin jacks): | Y Output: Рв/Рв Output: | 1.0 Vp-p (75 Ω) 0.7 Vp-p (75 Ω) |
|------------------------|----------------------------|------------------------------------|
| VIDEO OUT (pin jack): | 1.0 Vp-p (75 Ω) | |
| S-VIDEO OUT (S jack): | Y Output: | 1.0 Vp-p (75 Ω) |
| | C Output: | 286 mVp-p (75 Ω) |
| Horizontal resolution: | 500 Lines | |

Audio outputs

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

Audio characteristics

| Frequency response: | CD (sampling frequency 44.1 kHz): DVD (sampling frequency 48 kHz): | 2 Hz to 20 kHz 2 Hz to 22 kHz |
|----------------------------|---|----------------------------------|
| | DVD (sampling frequency 96 kHz): | 2 Hz to 44 kHz |
| Dynamic range: | 16 bit: More than 98 dB | |
| | 20 bit: More than 106 dB | |
| | 24 bit: More than 106 dB | |
| Wow and flutter: | Unmeasurable (less than ± 0.002%) | |
| Total harmonic distortion: | Less than 0.002% | |

* Specifications and appearance subject to change without prior notice.

Appendix A: Table of languages and their abbreviations

When you select the subtitle language or sound, the languages shown below are displayed as abbreviations. To select the desired language, select the abbreviation corresponding the language you want to.

| AA | Afar |
|----|-----------------|
| AB | Abkhazian |
| AF | Afrikaans |
| AM | Ameharic |
| AR | Arabic |
| AS | Assamese |
| AY | Aymara |
| AZ | Azerbaijani |
| BA | Bashkir |
| BE | Byelorussian |
| BG | Bulgarian |
| BH | Bihari |
| BI | Bislama |
| BN | Bengali, Bangla |
| BO | Tibetan |
| BR | Breton |
| CA | Catalan |
| CO | Corsican |
| CS | Czech |
| CY | Welsh |
| DA | Danish |
| DZ | Bhutani |
| EL | Greek |
| EO | Esperanto |
| ET | Estonian |
| EU | Basque |
| | |

| FA | Persian |
|----|--------------|
| FI | Finnish |
| FJ | Fiji |
| FO | Faroese |
| FY | Frisian |
| GA | Irish |
| GD | Scots Gaelic |
| GL | Galician |
| GN | Guarani |
| GU | Gujarati |
| HA | Hausa |
| HI | Hindi |
| HR | Croatian |
| HU | Hungarian |
| ΗY | Armenian |
| IA | Interlingua |
| IE | Interlingue |
| IK | Inupiak |
| IN | Indonesian |
| IS | lcelandic |
| IW | Hebrew |
| JI | Yiddish |
| JW | Javanese |
| KA | Georgian |
| KK | Kazakh |
| KL | Greenlandic |

| KM | Cambodian |
|----|------------------|
| KN | Kannada |
| КО | Korean (KOR) |
| KS | Kashmiri |
| KU | Kurdish |
| KY | Kirghiz |
| LA | Latin |
| LN | Lingala |
| LO | Laothian |
| LT | Lithuanian |
| LV | Latvian, Lettish |
| MG | Malagasy |
| MI | Maori |
| MK | Macedonian |
| ML | Malayalam |
| MN | Mongolian |
| MO | Moldavian |
| MR | Marathi |
| MS | Malay (MAY) |
| MT | Maltese |
| MY | Burmese |
| NA | Nauru |
| NE | Nepali |
| NL | Dutch |
| NO | Norwegian |
| OC | Occitan |

| ОМ | (Afan) Oromo |
|----|----------------|
| OR | Oriya |
| PA | Panjabi |
| PL | Polish |
| PS | Pashto, Pushto |
| PT | Portuguese |
| QU | Quechua |
| RM | Rhaeto-Romance |
| RN | Kirundi |
| RO | Rumanian |
| RU | Russian |
| RW | Kinyarwanda |
| SA | Sanskrit |
| SD | Sindhi |
| SG | Sangho |
| SH | Serbo-Croatian |
| SI | Singhalese |
| SK | Slovak |
| SL | Slovenian |
| SM | Samoan |
| SN | Shona |
| SO | Somali |
| SQ | Albanian |
| SR | Serbian |
| SS | Siswati |
| ST | Sesotho |
| | |

| SU | Sundanese |
|----|------------|
| SV | Swedish |
| SW | Swahili |
| TA | Tamil |
| TE | Telugu |
| TG | Tajik |
| TH | Thai |
| ΤI | Tigrinya |
| ΤK | Turkmen |
| TL | Tagalog |
| ΤN | Setswana |
| TO | Tonga |
| TR | Turkish |
| TS | Tsonga |
| TT | Tatar |
| TW | Twi |
| UK | Ukrainian |
| UR | Urdu |
| UZ | Uzbek |
| VI | Vietnamese |
| VO | Volapuk |
| WO | Wolof |
| XH | Xhosa |
| YO | Yoruba |
| ZU | Zulu |

Appendix B:Country code list for Parental Lock

This list is used for the Parental Lock operation. For details, see page 39.

| AD | Andorra |
|--|--|
| AE | United Arab Emirates |
| AF | Afghanistan |
| AG | Antigua and Barbuda |
| AI | Anguilla |
| AL | Albania |
| AM | Armenia |
| AN | Netherlands Antilles |
| AO | Angola |
| AQ | Antarctica |
| AR | Argentina |
| AS | American Samoa |
| AT | Austria |
| AU | Australia |
| AW | Aruba |
| AZ | Azerbaijan |
| BA | Bosnia and |
| BB | Barbados |
| BD | Bangladesh |
| BE | Belgium |
| BF | Burkina Faso |
| | |
| BG | Bulgaria Bahrain |
| BH | Bahrain Burundi |
| BI | |
| BJ | Benin |
| BM | Bermuda |
| BN | Brunei Darussalam |
| BO | Bolivia |
| BR | Brazil |
| BS | Bahamas |
| BT | Bhutan |
| BV | Bouvet Island |
| BW | Botswana |
| BY | Belarus |
| ΒZ | Belize |
| CA | Canada |
| CC | Cocos (Keeling) Islands |
| CF | Central African |
| | Republic |
| CG | Congo |
| СН | Switzerland |
| CI | |
| | Cô te d'Ivoire |
| CK | Cô te d'Ivoire Cook Islands |
| CK CL | Cook Islands |
| | Cook Islands Chile |
| CL | Cook Islands Chile Cameroon |
| CL CM CN | Cook Islands Chile Cameroon China |
| CL CM CN CO | Cook Islands Chile Cameroon China Colombia |
| CL CM CN CO CR | Cook Islands Chile Cameroon China Colombia Costa Rica |
| CL CM CN CO CR CU | Cook Islands Chile Cameroon China Colombia Costa Rica Cuba |
| CL CM CN CO CR CU CV | Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde |
| CL CM CN CO CR CU CV CV | Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island |
| CL CM CN CO CR CU CV CV CX CY | Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cuba Cape Verde Christmas Island Cyprus |
| CL CM CN CO CR CU CV CV CX CY CZ | Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cuba Cape Verde Christmas Island Cyprus Czech Republic |
| CL CM CO CR CU CV CX CY CZ DE | Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cuba Cape Verde Christmas Island Cyprus Czech Republic Germany |
| CL CM CO CR CU CV CX CY CZ DE DJ | Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus Czech Republic Germany Djibouti |
| CL CM CO CR CU CV CX CY CZ DE DJ DK | Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cuba Cape Verde Christmas Island Cyprus Czech Republic Germany Djibouti Denmark |
| CL CM CO CR CU CV CX CY CZ DE DJ DK DM | Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus Czech Republic Germany Djibouti Denmark Dominica |
| CL CM CN CO CR CV CV CX CY CZ DE DJ DK DM DO | Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus Czech Republic Germany Djibouti Denmark Dominica Dominican Republic |
| CL CM CN CO CR CV CX CY CZ DE DJ DK DM DO DZ | Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus Czech Republic Germany Djibouti Denmark Dominica Dominica Republic Algeria |
| CL CM CO CR CU CV CX CY CZ DE DJ DK DM DO DZ EC | Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus Czech Republic Germany Djibouti Denmark Dominica Dominican Republic Algeria Ecuador |
| CL CM CO CR CU CV CX CY CZ DE DJ DK DM DO DZ EC EE | Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus Czech Republic Germany Djibouti Denmark Dominica Dominican Republic Algeria Ecuador Estonia |
| CL CM CN CO CR CV CV CX CY CZ DE DJ DK DM DO DZ EC EE EG | Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus Czech Republic Germany Djibouti Denmark Dominica Dominica Republic Algeria Ecuador Estonia Egypt |
| CL CM CN CO CR CV CX CY CZ DE DJ DK DM DO DZ EC EE EG EH | Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus Czech Republic Germany Djibouti Denmark Dominica Dominican Republic Algeria Ecuador Estonia Egypt Western Sahara |
| CL CM CN CO CR CV CV CX CY CZ DE DJ DK DM DO DZ EC EE EG | Cook Islands Chile Cameroon China Colombia Costa Rica Cuba Cape Verde Christmas Island Cyprus Czech Republic Germany Djibouti Denmark Dominica Dominica Republic Algeria Ecuador Estonia Egypt |

| ES | Spain |
|--|---|
| ET | Ethiopia |
| FI | Finland |
| FJ | Fiji |
| FK | Falkland Islands |
| FM | Micronesia |
| 1 101 | (Federated States of) |
| FO | Faroe Islands |
| FR | France |
| FX | France, Metropolitan |
| GA | Gabon |
| GB | United Kingdom |
| GD | Grenada |
| GE | Georgia |
| GF | French Guiana |
| GH | Ghana |
| GI | Gibraltar |
| GL | Greenland |
| GM | Gambia |
| GN | Guinea |
| GP | Guadeloupe |
| GQ | Equatorial Guinea |
| GR | Greece |
| GS | South Georgia and the |
| | South Sandwich |
| GT | Guatemala |
| GU | Guam |
| GW | Guinea-Bissau |
| GY | Guyana |
| ΗK | Hong Kong |
| НМ | Heard Island and |
| | McDonald Islands |
| ΗN | Honduras |
| HR | Croatia |
| HT | Haiti |
| HU | Hungary |
| ID | Indonesia |
| IE | Ireland |
| IL | Israel |
| IN | India |
| 10 | British Indian Ocean |
| 10 | Territory |
| 10 | Iraq |
| IR | Iran (Islamic Republic |
| | of) |
| IS | lceland |
| IT | Italy |
| JM | Jamaica |
| JO | |
| 50 | Jordan |
| JP | Japan |
| | |
| JP | Japan Kenya |
| JP KE | Japan |
| JP KE KG | Japan Kenya Kyrgyzstan |
| JP KE KG KH | Japan Kenya Kyrgyzstan Cambodia |
| JP KE KG KH KI | Japan Kenya Kyrgyzstan Cambodia Kiribati |
| JP KE KG KH KI KM KN | Japan Kenya Kyrgyzstan Cambodia Kiribati Comoros Saint Kitts and Nevis |
| JP KE KG KH KI KM | Japan Kenya Kyrgyzstan Cambodia Kiribati Comoros Saint Kitts and Nevis Korea, Democratic People's Republic of |
| JP KE KG KH KI KM KN | Japan Kenya Kyrgyzstan Cambodia Kiribati Comoros Saint Kitts and Nevis Korea, Democratic People's Republic of |
| JP KE KG KH KN KN KP | Japan Kenya Kyrgyzstan Cambodia Kiribati Comoros Saint Kitts and Nevis Korea, Democratic |
| JP KE KG KH KN KN KP KR KW | Japan Kenya Kyrgyzstan Cambodia Kiribati Comoros Saint Kitts and Nevis Korea, Democratic People's Republic of Korea, Republic of Kuwait |
| JP KE KG KH KN KN KP KR | Japan Kenya Kyrgyzstan Cambodia Kiribati Comoros Saint Kitts and Nevis Korea, Democratic People's Republic of Korea, Republic of Kuwait Cayman Islands |
| JP KE KG KH KN KN KP KR KR KW KY KZ | Japan Kenya Kyrgyzstan Cambodia Kiribati Comoros Saint Kitts and Nevis Korea, Democratic People's Republic of Korea, Republic of Kuwait |
| JP KE KG KH KN KN KN KP KR KW KY | Japan Kenya Kyrgyzstan Cambodia Kiribati Comoros Saint Kitts and Nevis Korea, Democratic People's Republic of Korea, Republic of Kuwait Cayman Islands Kazakhstan |

| LB | Lebanon | | | |
|----------|------------------------------|--|--|--|
| LC | Saint Lucia | | | |
| LI | Liechtenstein | | | |
| LK | Sri Lanka | | | |
| LR | Liberia | | | |
| LS | Lesotho | | | |
| LT | Lithuania | | | |
| LU | Luxembourg | | | |
| LV | Latvia | | | |
| LY | Libyan Arab | | | |
| MA | Morocco | | | |
| MC | Monaco | | | |
| MD | Moldova, Republic of | | | |
| MG | Madagascar | | | |
| MH | Marshall Islands | | | |
| ML | Mali | | | |
| MM | Myanmar | | | |
| MN MO | Mongolia Magau | | | |
| | Macau Northern Mariana | | | |
| MP | Northern Mariana Islands | | | |
| MQ | Martinique | | | |
| MR | Mauritania | | | |
| MS | Montserrat | | | |
| MT | Malta | | | |
| MU | Mauritius | | | |
| ΜV | Maldives | | | |
| MW | Malawi | | | |
| MX | Mexico | | | |
| MY | Malaysia | | | |
| MZ | Mozambique | | | |
| NA | Namibia | | | |
| NC | New Caledonia | | | |
| NE | Niger | | | |
| NF NG | Norfolk Island Nigeria | | | |
| NI | | | | |
| NL | Nicaragua Netherlands | | | |
| NO | Netherlands Norway | | | |
| NP | Nepal | | | |
| NR | Nauru | | | |
| NU | Niue | | | |
| NZ | New Zealand | | | |
| OM | Oman | | | |
| PA | Panama | | | |
| PE | Peru | | | |
| PF | French Polynesia | | | |
| PG | Papua New Guinea | | | |
| PH | Philippines | | | |
| PK | Pakistan | | | |
| PL | Poland Saint Pierre and | | | |
| PM | Saint Pierre and Miquelon | | | |
| PN | Pitcairn | | | |
| PR | Puerto Rico | | | |
| PT | Portugal | | | |
| PW | Palau | | | |
| PY | Paraguay | | | |
| QA | Qatar | | | |
| RE | Réunion | | | |
| RO | Romania | | | |
| RU | Russian Federation | | | |
| RW | Rwanda | | | |
| | | | | |

| SA | Saudi Arabia | | | |
|--|--|--|--|--|
| SB | Solomon Islands | | | |
| SC | Seychelles | | | |
| SD | - | | | |
| | Sudan | | | |
| SE | Sweden | | | |
| SG | Singapore | | | |
| SH | Saint Helena | | | |
| SI | Slovenia | | | |
| 51 | | | | |
| 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 | | | |
| тс | Turks and Caicos | | | |
| | Islands | | | |
| TD | Chad | | | |
| | French Southern | | | |
| TF | | | | |
| | Territories | | | |
| TG | Togo | | | |
| TH | Thailand | | | |
| TJ | Tajikistan | | | |
| TK | Tokelau | | | |
| | | | | |
| TM | Turkmenistan | | | |
| ΤN | Tunisia | | | |
| TO | Tonga | | | |
| TP | East Timor | | | |
| TR | Turkey | | | |
| TT | Trinidad and Tobago | | | |
| | | | | |
| | Tuvalu | | | |
| ΤV | Tuvalu Taiwan | | | |
| | Taiwan | | | |
| TV TW | Taiwan Tanzania, United | | | |
| TV TW TZ | Taiwan Tanzania, United Republic of | | | |
| TV TW | Taiwan Tanzania, United | | | |
| TV TW TZ UA | Taiwan Tanzania, United Republic of Ukraine | | | |
| TV TW TZ UA UG | Taiwan Tanzania, United Republic of Ukraine Uganda | | | |
| TV TW TZ UA | Taiwan Tanzania, United Republic of Ukraine Uganda United States Minor | | | |
| TV TW TZ UA UG UM | Taiwan Tanzania, United Republic of Ukraine Uganda United States Minor Outlying Islands | | | |
| TV TW TZ UA UG UM US | Taiwan Tanzania, United Republic of Ukraine Uganda United States Minor Outlying Islands United States | | | |
| TV TW TZ UA UG UM US UY | Taiwan Tanzania, United Republic of Ukraine Uganda United States Minor Outlying Islands United States Uruguay | | | |
| TV TW TZ UA UG UM US | Taiwan Tanzania, United Republic of Ukraine Uganda United States Minor Outlying Islands United States Uruguay Uzbekistan | | | |
| TV TW TZ UA UG UM US UY UZ | Taiwan Tanzania, United Republic of Ukraine Uganda United States Minor Outlying Islands United States Uruguay | | | |
| TV TW TZ UA UG UM US UY | Taiwan Tanzania, United Republic of Ukraine Uganda United States Minor Outlying Islands United States Uruguay Uzbekistan Vatican City State | | | |
| TV TW TZ UA UG UM US UY UZ VA | Taiwan Tanzania, United Republic of Ukraine Uganda United States Minor Outlying Islands United States Uruguay Uzbekistan Vatican City State (Holy See) | | | |
| TV TW TZ UA UG UM US UY UZ | Taiwan Tanzania, United Republic of Ukraine Uganda United States Minor Outlying Islands United States Uruguay Uzbekistan Vatican City State (Holy See) Saint Vincent and the | | | |
| TV TW TZ UA UG UM US UY UZ VA VC | Taiwan Tanzania, United Republic of Ukraine Uganda United States Minor Outlying Islands United States Uruguay Uzbekistan Vatican City State (Holy See) Saint Vincent and the Grenadines | | | |
| TV TW TZ UA UG UM US UY UZ VA VC VE | Taiwan Tanzania, United Republic of Ukraine Uganda United States Minor Outlying Islands United States Uruguay Uzbekistan Vatican City State (Holy See) Saint Vincent and the Grenadines Venezuela | | | |
| TV TW TZ UA UG UM US UY UZ VA VC VC VE VG | Taiwan Tanzania, United Republic of Ukraine Uganda United States Minor Outlying Islands United States Uruguay Uzbekistan Vatican City State (Holy See) Saint Vincent and the Grenadines Venezuela Virgin Islands (British) | | | |
| TV TW TZ UA UG UM US UY UZ VA VC VC VE VG VI | Taiwan Tanzania, United Republic of Ukraine Uganda United States Minor Outlying Islands United States Uruguay Uzbekistan Vatican City State (Holy See) Saint Vincent and the Grenadines Venezuela Virgin Islands (British) Virgin Islands (U.S.) | | | |
| TV TW TZ UA UG UM US UY UZ VA VC VC VC VC VI VN | Taiwan Tanzania, United Republic of Ukraine Uganda United States Minor Outlying Islands United States Uruguay Uzbekistan Vatican City State (Holy See) Saint Vincent and the Grenadines Venezuela Virgin Islands (British) | | | |
| TV TW TZ UA UG UM US UY UZ VA VC VC VC VC VI VN | Taiwan Tanzania, United Republic of Ukraine Uganda United States Minor Outlying Islands United States Uruguay Uzbekistan Vatican City State (Holy See) Saint Vincent and the Grenadines Venezuela Virgin Islands (British) Virgin Islands (U.S.) | | | |
| TV TW TZ UA UG UM US UY UZ VA VC VC VC VC VI VN VU | Taiwan Tanzania, United Republic of Ukraine Uganda United States Minor Outlying Islands United States Uruguay Uzbekistan Vatican City State (Holy See) Saint Vincent and the Grenadines Venezuela Virgin Islands (British) Virgin Islands (U.S.) | | | |
| TV TW TZ UA UG UM US UY UZ VA VC VC VC VC VI VN | Taiwan Tanzania, United Republic of Ukraine Uganda United States Minor Outlying Islands United States Uruguay Uzbekistan Vatican City State (Holy See) Saint Vincent and the Grenadines Venezuela Virgin Islands (British) Virgin Islands (U.S.) Vietnam Vanuatu Wallis and Futuna | | | |
| TV TW TZ UA UG UM US UY UZ VA VC VA VC VA VC VI VN VU WF | Taiwan Tanzania, United Republic of Ukraine Uganda United States Minor Outlying Islands United States Uruguay Uzbekistan Vatican City State (Holy See) Saint Vincent and the Grenadines Venezuela Virgin Islands (British) Virgin Islands (U.S.) Vietnam Vanuatu Wallis and Futuna Islands | | | |
| TV TW TZ UA UG UM US UY UZ VA VC VE VN VU WF WS | Taiwan Tanzania, United Republic of Ukraine Uganda United States Minor Outlying Islands United States Uruguay Uzbekistan Vatican City State (Holy See) Saint Vincent and the Grenadines Venezuela Virgin Islands (British) Virgin Islands (U.S.) Vietnam Vanuatu Wallis and Futuna Islands Samoa | | | |
| TV TW TZ UA UG UM US UY UZ VA VC VE VI VN VU WF WS YE | Taiwan Tanzania, United Republic of Ukraine Uganda United States Minor Outlying Islands United States Uruguay Uzbekistan Vatican City State (Holy See) Saint Vincent and the Grenadines Venezuela Virgin Islands (British) Virgin Islands (U.S.) Vietnam Vanuatu Wallis and Futuna Islands Samoa Yemen | | | |
| TV TW TZ UA UG UM US UY UZ VA VC VE VI VN VU WF WS YT | Taiwan Tanzania, United Republic of Ukraine Uganda United States Minor Outlying Islands United States Uruguay Uzbekistan Vatican City State (Holy See) Saint Vincent and the Grenadines Venezuela Virgin Islands (British) Virgin Islands (U.S.) Vietnam Vanuatu Wallis and Futuna Islands Samoa Yemen Mayotte | | | |
| TV TW TZ UA UG UM US UY UZ VA VC VE VI VN VU WF YE YT YU | Taiwan Tanzania, United Republic of Ukraine Uganda United States Minor Outlying Islands United States Uruguay Uzbekistan Vatican City State (Holy See) Saint Vincent and the Grenadines Venezuela Virgin Islands (British) Virgin Islands (British) Vietnam Vanuatu Wallis and Futuna Islands Samoa Yemen Mayotte Yugoslavia | | | |
| TV TW TZ UA UG UM US UY UZ VA VC VE VI VN VU WF WS YT | Taiwan Tanzania, United Republic of Ukraine Uganda United States Minor Outlying Islands United States Uruguay Uzbekistan Vatican City State (Holy See) Saint Vincent and the Grenadines Venezuela Virgin Islands (British) Virgin Islands (British) Virgin Islands (U.S.) Vietnam Vanuatu Wallis and Futuna Islands Samoa Yemen Mayotte Yugoslavia South Africa | | | |
| TV TW TZ UA UG UM US UY UZ VA VC VE VQ VU WF WS YE YU ZA | Taiwan Tanzania, United Republic of Ukraine Uganda United States Minor Outlying Islands United States Uruguay Uzbekistan Vatican City State (Holy See) Saint Vincent and the Grenadines Venezuela Virgin Islands (British) Virgin Islands (British) Virgin Islands (U.S.) Vietnam Vanuatu Wallis and Futuna Islands Samoa Yemen Mayotte Yugoslavia South Africa | | | |
| TV TW TZ UA UG UM US UY VZ VA VC VE VQ VN VU WF WS YT YU ZA ZM | Taiwan Tanzania, United Republic of Ukraine Uganda United States Minor Outlying Islands United States Uruguay Uzbekistan Vatican City State (Holy See) Saint Vincent and the Grenadines Venezuela Virgin Islands (British) Virgin Islands (British) Virgin Islands (U.S.) Vietnam Vanuatu Wallis and Futuna Islands Samoa Yemen Mayotte Yugoslavia South Africa Zambia | | | |
| TV TW TZ UA UG UM US UY VZ VA VC VE VQ VN VU WF WS YE YT ZM ZR | Taiwan Tanzania, United Republic of Ukraine Uganda United States Minor Outlying Islands United States Uruguay Uzbekistan Vatican City State (Holy See) Saint Vincent and the Grenadines Venezuela Virgin Islands (British) Virgin Islands (British) Virgin Islands (U.S.) Vietnam Vanuatu Wallis and Futuna Islands Samoa Yemen Mayotte Yugoslavia South Africa Zambia Zaire | | | |
| TV TW TZ UA UG UM US UY VZ VA VC VE VQ VN VU WF WS YT YU ZA ZM | Taiwan Tanzania, United Republic of Ukraine Uganda United States Minor Outlying Islands United States Uruguay Uzbekistan Vatican City State (Holy See) Saint Vincent and the Grenadines Venezuela Virgin Islands (British) Virgin Islands (British) Virgin Islands (U.S.) Vietnam Vanuatu Wallis and Futuna Islands Samoa Yemen Mayotte Yugoslavia South Africa Zambia | | | |

Authorized Service Centers

QUALITY **JVC**[®] SERVICE HOW TO LOCATE YOUR JVC SERVICE CENTER TOLL FREE: 1 (800) 537-5722 http://www.jvc.com

Dear Customer,

In order to receive the most satisfaction from your purchase, please read the instruction booklet before operating the unit.In the event that repairs are necessary, please call 1 (800)537-5722 for your nearest authorized servicer or visit our website at **www.JVC.com** Remember to retain your Bill of Sale for Warranty Service.

Do not service the television yourself -

Caution

To prevent electrical shock, do not open the cabinet. There are no user serviceable parts inside. Please refer to qualified service personnel for repairs.

Accessories

To purchase accessories for your JVC product, please call toll free: 1 (800)882-2345 or on the web at **www.JVC.com**

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| ***** | JVC |
| ****** | JVC COMPANY ORIGINAL PURC of original retail |
| (***** | THIS LIMITED W IN COMMONWE |
| ********************** | WHAT WE WILL If this product is Such repair and re- centers. Parts use thereof may be be size 25 inches and |
| ***** | WHAT YOU MUS Return your prod service center, pl |
| (***** | If service is not a a copy of your bi name and locatio |
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| ************* | WHAT IS NOT CO This limited warn Products whic installation, la JVC to render or serial numl Initial installati Operational a Damage that Signal recepti Video Pick-up Accessories; Batteries (exc |
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| ****** | JVC SHALL NOT DAMAGES, WHE TO TAPES, RECO OF THIS WARRA ABILITY AND FIT |
| ******* | Some states do implied warranty legal rights and y |
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LIMITED WARRANTY

CONSUMER VIDEO 1-90

** *

☆★★★

*** JVC COMPANY OF AMERICA warrants this product and all parts thereof, except as set forth below ONLY TO THE ORIGINAL PURCHASER AT RETAIL to be FREE FROM DEFECTIVE MATERIALS AND WORKMANSHIP from the date of original retail purchase for the period as shown below. ("The Warranty Period")

| | PARTS | 1 yr | LABOR | 90 days | | | |
|---|---|--|---|--|--|--|--|
| THIS LIMITED WARRANTY IS V. IN COMMONWEALTH OF PUER | | I THE FIFTY | (50) UNITE | D STATES, TH | | | |
| WHAT WE WILL DO: If this product is found to be det Such repair and replacement sen centers. Parts used for replacement thereof may be brought to a JVC size 25 inches and above which a | vices shall be r ent are warran authorized se | rendered by ted only for t rvice center of | JVC during the remaind on a carry-i | normal busine ler of the Warra | | | |
| WHAT YOU MUST DO FOR WA Return your product to a JVC aut service center, please call toll fre | thorized servic | ce center with | h a copy of | your bill of sale | | | |
| If service is not available locally a copy of your bill of sale plus a name and location of which wil | letter of expl | lanation of th | he problem | to the neares | | | |
| If you have any questions conce | ərning your J' | VC Product, | please con | tact our Custo | | | |
| WHAT IS NOT COVERED: This limited warranty provided by JVC does not cover: Products which have been subject to abuse, accident, alteration, modification, tampering, negligence, misuse, faulty, installation, lack of reasonable care, or if repaired or serviced by anyone other than a service facility authorized by JVC to render such service, or if affixed to any attachment not provided with the products, or if the model number or serial number has been altered, tampered with, defaced or removed; Initial installation and installation and removal for repair; Operational adjustments covered in the Owner's Manual, normal maintenance, video and audio head cleaning Damage that occurs in shipment, due to act of God, and cosmetic damage; Signal reception problems and failures due to line power surge; Video Pick-up Tubes/CCD Image Sensor, Cartridge, Stylus (Needle) are covered for 90 days from the date of purchase Batteries (except that Rechargeable Batteries are covered for 90 days from the date of purchase); | | | | | | | |
| There are no express warranties | s except as lis | sted above. | | | | | |
| THE DURATION OF ANY IMPLIE LIMITED TO THE DURATION OF | | | | | | | |
| JVC SHALL NOT BE LIABLE FO DAMAGES, WHETHER DIRECT, TO TAPES, RECORDS OR DISCS OF THIS WARRANTY. ALL EXPE ABILITY AND FITNESS FOR PAR | INCIDENTAL) RESULTING RESS AND IMI | OR CONSEC FROM THE U PLIED WARF | DUENTIAL (JSE OF THIS RANTIES, II | (INCLUDING, V S PRODUCT, O NCLUDING TH | | | |
| Some states do not allow the implied warranty lasts, so these legal rights and you may also h | e limitations o | or exclusion | s may not | apply to you. | | | |

JVC COMPANY OF AMERICA DIVISION OF JVC AMERICAS CORP.

1700 Valley Road Wayne, NJ 07470

REFURBISHED PRODUCTS CARRY A SEPARATE WARRANTY, THIS WARRANTY DOES NOT APPLY. FOR DETAILS OF REFURBISHED PRODUCT WARRANTY, PLEASE REFER TO THE REFURBISHED PRODUCT WARRANTY INFORMATION PACKAGED WITH EACH REFURBISHED PRODUCT.

| For customer use: | |
|--|---|
| Enter below the Model No. which is located either on the for future reference. | ne rear, bottom or side of the cabinet. Retain this information |
| Model No. : | Serial No. : |
| Purchase data : | Name of dealer : |

