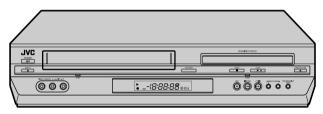




DVD PLAYER & VIDEO CASSETTE RECORDER

HR-XVC27UM



























INSTRUCTIONS

;ATENCION!

Antes de operar su equipo, lea cuidadosamente este instructivo.

Dear Customer,

Thank you for purchasing the JVC DVD player & VHS video cassette recorder. Before use, please read the safety information and precautions to ensure safe use of your new unit

CAUTIONS

WARNING: DANGEROUS VOLTAGE INSIDE WARNING: TO PREVENT FIRE OR SHOCK

HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

The POWER 0/1 button does not completely shut off mains power from the unit, but switches operating current on and off. "0" shows electrical power standby and "1" shows ON.

CAUTION:

A DVD/VCR IS A CLASS 1 LASER PRODUCT. HOWEVER THIS DVD/VCR USES A VISIBLE LASER BEAM WHICH COULD CAUSE HAZARDOUS RADIATION EXPOSURE IF DIRECTED. BE SURE TO OPERATE THE UNIT CORRECTLY AS INSTRUCTED. WHEN THIS DVD/VCR IS PLUGGED INTO THE WALL OUTLET, DO NOT PLACE YOUR EYES CLOSE TO THE OPENING OF THE DISC TRAY AND OTHER OPENINGS TO LOOK INTO THE INSIDE OF THIS DVD/VCR.

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE. DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

CLASS 1 LASER PRODUCT
REPRODUCTION OF LABELS
WARNING LABEL INSIDE OF THE UNIT

IMPORTANT

It may be unlawful to record or play back copyrighted material without the consent of the copyright owner.

CAUTION

- When you are not using the unit for a long period of time, it is recommended that you disconnect the power cord from the AC outlet.
- Dangerous voltage inside. Refer internal servicing to qualified service personnel. To prevent electric shock or fire hazard, remove the power cord from the AC outlet prior to connecting or disconnecting any signal lead or aerial.
- Changes or modifications not approved by JVC could void user's authority to operate the equipment.

The rating plate and safety caution are on the rear of the unit

This unit is produced to comply with Standard IEC 60065.

POWER SYSTEM:

This set operates on voltage of AC 110 – 220V \sim , 50/60 Hz with automatic switching.

Use the conversion plug (provided) depending on the type of your AC WALL outlet.



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

ADVARSEL: Synlig og usynlig laserstråling når maskinen er osynlig laserstrålning når obitettuna tai viallisena olet alttiina interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM. (e)

ADVARSEL: Synlig og usynlig och osynlig laserstrålning når obitettuna tai viallisena olet alttiina interlocken fejler. Iden öppnas och spärren är näkyvälle ja näkymättömälle urkopplad. Betrakta ej lasersäteilylle. Vältä säteen stråling. (f)

Use only discs marked with the following.



DVD (8 cm /12 cm disc)



Video CDs (8 cm /12 cm disc)



Audio CDs (8 cm /12 cm disc)



SVCD (8 cm /12 cm disc)







- Manufactured under license from Dolby Laboratories.
 "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.
- "DTS" and "DTS 2.0 + Digital Out" are trademarks of Digital Theater Systems, Inc.
- Cassettes marked "VHS" (or "S-VHS") can be used with this unit. However, S-VHS recording is not possible with this model.
- This model is equipped with SQPB (S-VHS QUASI PLAYBACK) that makes it possible to play back S-VHS recordings with regular VHS resolution.
- HQ VHS is compatible with existing VHS equipment.
- This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing users only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

When the equipment is installed in a cabinet or a shelf, make sure that it has sufficient space on all sides to allow for ventilation (10 cm or more on both sides, on top and at the rear.)

When discarding batteries, environmental problems must be considered and the local rules or laws governing the disposal of these batteries must be followed strictly. Failure to heed the following precautions may result in damage to the unit, Remote or video cassette.

- 1. DO NOT place the unit
 - in an environment prone to extreme temperatures or humidity.
 - in direct sunlight.
 - in a dusty environment.
 - in an environment where strong magnetic fields are generated.
- on a surface that is unstable or subject to vibration.
- 2. <u>DO NOT</u> block the unit's 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.)

- 3. **DO NOT** place heavy objects on the unit or Remote.
- 4. <u>DO NOT</u> place anything which might spill on top of the unit or Remote.

(If water or liquid is allowed to enter this equipment, fire or electric shock may be caused.)

- DO NOT expose the apparatus to dripping or splashing.
- 6. <u>DO NOT</u> use this equipment 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 unit.
- 7. <u>DO NOT</u> place any naked flame sources, such as lighted candles, on the apparatus.
- 8. AVOID violent shocks to the unit during transport.

MOISTURE CONDENSATION

Moisture in the air will condense on the unit when you move it from a cold place to a warm place, or under extremely humid conditions—just as water droplets form in the surface of a glass filled with cold liquid. Moisture condensation on the head drum will cause damage to the tape. In conditions where condensation may occur, keep the unit turned on for a few hours to let the moisture dry.

ATTENTION

To mobile phone users:

Using a mobile phone in the vicinity of the unit may cause picture vibration on the TV screen or change the screen to a blue back display.

On placing the unit:

Some TVs or other appliances generates strong magnetic fields. Do not place such appliance on top of the unit as it may cause picture disturbance.



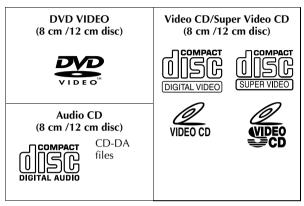
DISC INFORMATION	5
About Discs	5
INDEX	8
INSTALLING YOUR NEW UNIT	12
Basic Connections	13
INITIAL SETTINGS	15
Plug & Play Set	15 16 18 22
OPERATIONS ON VCR DECK	26
Basic Playback Playback Features Basic Recording Recording Features Express Timer Programming	26 27 31 32
Satellite Auto Recording	5 5
Satellite Auto Recording	
Satellite Auto Recording	40 40 41 46 56

EDITING (VCR DECK)	66
Edit From A Camcorder	67
EDITING (DVD DECK)	69
Digital Audio Dubbing	
REMOTE	70
Remote Control Functions	
SUBSIDIARY SETTINGS	72
Mode Set (VCR deck)	75
	79
TROUBLESHOOTING	11
TROUBLESHOOTING QUESTIONS AND ANSWERS	84

About Discs

Playable Discs

You can use the discs with the following logos for playback only.



- The following discs also can be played back.
 - DVD-R/RW discs recorded in DVD VIDEO format and finalized
 - CD-R/RW discs recorded in Super Video CD, Video CD or Audio CD format and finalized.
 - CD-R/RW discs recorded in MP3 format in accordance with the "ISO 9660" format. (See page 60 for details.)
 - CD-R/RW discs recorded in JPEG format in accordance with the "ISO 9660" format. (See page 63 for details.)
- Discs other than the above cannot be played back.
- Operation and audio quality of this unit are not guaranteed for discs that do not conform to the Compact Disc specification (CD-DA).
 - Before you play back a CD, check for the CD logo and read the notes on the package to confirm that it conforms to the Compact Disc specification.
- Depending on the intentions of the author of the software, recording conditions of DVD discs and Video CD discs may be restricted. Since this unit plays back discs according to the intentions of the author of the software as indicated on the disc, some functions may not operate as commanded.
- When switching from the first layer to the second layer of double-layered DVD VIDEO discs, the image and sound may be momentarily distorted. This is not a malfunction.

Unplayable Discs

The following types of discs cannot be played using this unit. Do not attempt to play back any kind of disc that is damaged (cracked, warped, or repaired with adhesive tape) or discs in unusual shapes (heart-shaped, octagonal, or other forms). If such discs are accidentally played back, it may cause noise that can lead to speaker damage.

- CD-ROM discs (including PHOTO-CD)
- DVD AUDIO discs
- Super Audio CDs (SACD)
- DVD-RW discs recorded in VR format
- DVD-RAM
- Discs which have a region number other than "4"

Region Number

The world is divided into 6 regions for DVD VIDEO discs. DVD VIDEO discs are assigned a region number to indicate which region they may be played back in. A disc cannot be played back on this unit unless the region number of the disc matches that of the unit. The region number for this unit is "4". Only discs whose region number includes "4" can be played back such as shown below.

Examples of DVD VIDEO labels which can be played back using this unit.









Marks of discs in this instruction manual



Allows operation with a DVD VIDEO disc



Allows operation with a Audio CD disc.



Allows operation with a Video CD disc.



Allows operation with a SVCD disc.



Allows operation with a disc including MP3 files.



Allows operation with a disc including JPEG files.



DVD VIDEO Marks

Sometimes marks are printed on a DVD disc and/or on its packaging to indicate information regarding the contents and functions of a disc. Check marks indicating the contents and functions of a disc. Note, however, that in some cases a disc may not include a mark even for a function it supports.

Marks related to video

Mark	Description
2	Number of subtitles
∞ 3 1	Number of angles
4:3	Recorded under the standard 4:3 aspect ratio
LB	Screen includes black bands at top and bottom of image which has a standard 4:3 aspect ratio (letter box)
16:9 LB	Video playback is in Wide video mode (16:9) on wide televisions, but in letter box on televisions with standard 4:3 aspect ratio.
16:9 PS	Video playback is in Wide video mode (16:9) on wide televisions, but pan and scan is used on televisions with standard 4:3 aspect ratio (either the left or right side of the image is cut-out).

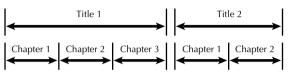
Marks related to audio

Mark	Description
3))	Number of audio tracks
DIGITAL	Dolby Digital mark Dolby Laboratories has developed a digital surround system for the home. This mark indicates that you may enjoy 5.1- channel audio (front left and right, center, rear left and right, and a channel for LFE (Low-Frequency Effects)).
2.0+DIGITAL OUT	DTS (Digital Theater System) The DTS decoder on this unit enables you to enjoy DTS audio with the connected TV's speakers by converting 5.1 channel audio signals into 2 channel signals (DTS Down Mixing). The decoder also outputs the original DTS 5.1 channel audio signals from the DIGITAL AUDIO OUT connector on this unit.

File Structure of Discs

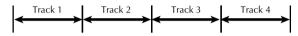
DVD VIDEO

Typically, DVD VIDEO discs are made up of larger units called "titles". Each title has a number (title number) that can be used to select desired titles. Titles are further divided into units called "chapters". Each chapter has a number (chapter number) that can also be used to select desired chapters. Note that some discs are not divided into titles and chapters.



Audio CD/Video CD

Typically, Audio CD discs are divided into separate tracks each containing one song. Each track is assigned a number. For example, the third track is Track 3. The same is true for Video CD discs.



NOTE:

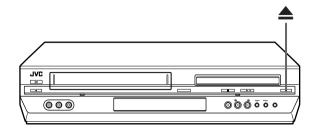
Video CD discs that support Playback Control (PBC)

The still image or motion image which follows a menu screen is called a "scene". Each scene has a scene number. For more details, refer to "Locating a desired scene using the menu of the Video CD with PBC" (F) pg. 41).

Placing a Disc

1 Open the disc tray.

Press **OPEN/CLOSE** (♠) on the DVD deck to open the disc tray.



- Pressing the button again closes the disc tray.
- Do not block the disc tray with your hand while it is opening or closing as this may result in hardware failure.
- Do not place unplayable discs or any object other than a disc in the disc tray.
- Do not press down strongly on the disc tray or place any heavy objects on it.

2 Place the disc.

Place the disc in the disc tray with the label side facing up.

- Since disc size changes depending on the disc to be played back, be sure to correctly align the disc with the grooves for its size. If the disc is not in its groove, it may be scratched or otherwise damaged.
- To insert an 8 cm disc, place it according to the inner groove.



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 unit 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.

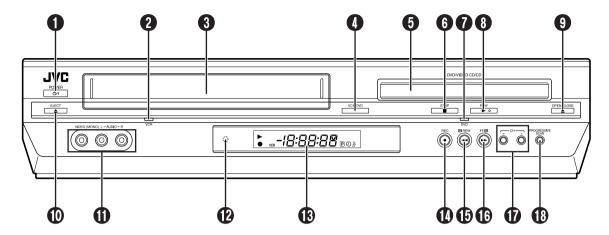


CAUTION

Sometimes during playback, 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.

FRONT VIEW



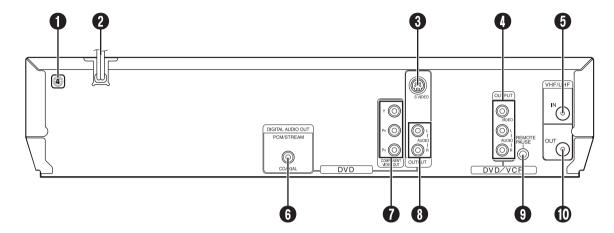
- 1 Power Button (POWER (७/۱)) ☞ pg. 16
- 2 VCR Indicator 🖙 pg. 26, 31
- **3** VHS Cassette Loading Slot
- VCR/DVD Button 🖙 pg. 26, 31, 40
- **6** Disc Tray
- **6** Stop Button (STOP (■)) **□** pg. 26, 31, 40
- **1** DVD Indicator pg. 40
- **8** Play Button (PLAY (►)) □ pg. 26, 40
- DVD Open/Close Button (OPEN/CLOSE (▲))

 □ pg. 40
- **1** VHS Eject Button (EJECT (♠)) 🖙 pg. 26, 31

- **(1)** Video/Audio Input Connectors (VIDEO/AUDIO)
 ☐ pg. 66
- **®** Remote Sensor
- Record Button (REC (●))
 pg. 31
- **ⓑ** Rewind Button (REW (◄◄)) 🖙 pg. 26, 27, 42
- **(** Fast Forward Button (FF (►►)) □ pg. 26, 27, 42
- **1** Channel Button (CH +/−) 🖙 pg. 31
- Progressive Scan Button (PROGRESSIVE SCAN)

 pg. 78

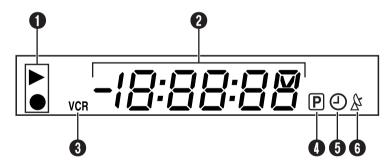
REAR VIEW



- Region Number Label 🖙 pg. 5
- 2 AC Power Cord pg. 12
- 3 S-video Output Connector (S VIDEO OUTPUT)* © pg. 13
- 4 Audio/Video Output Connectors (AUDIO/ VIDEO OUTPUT) [27 pg. 12, 13, 14, 67
- 6 Antenna Input Connector (VHF/UHF IN) © pg. 12
- * These connectors are only for DVD deck.

- 6 Digital Audio Output Connector (DIGITAL AUDIO OUT)* pg. 69
- **1** Component Video Output Connectors (COMPONENT VIDEO OUT)* pg. 14
- **8** Audio Output Connectors (AUDIO OUTPUT (L/R))*
- **9** Remote Pause Connector pg. 66
- Antenna Output Connector (VHF/UHF OUT) □ pg. 12

FRONT DISPLAY PANEL



- Operation Mode Indicators
- 2 Channel/Clock

information.

Auxiliary Input Mode Display (F-1) (VCR deck only)

Counter Display (VCR deck)

Tape Speed (SP/EP) (VCR deck only)

Multi-information window* (DVD deck) The current group/title/track/chapter number(s), time and status

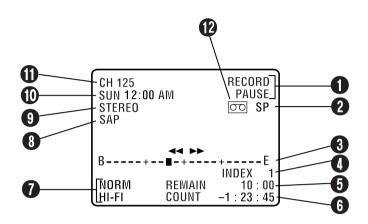
- **3** VCR Indicator **□** pg. 32
- ◆ Progressive Mode Indicator

 □ pg. 78
- **⑤** "Timer" Indicator (VCR deck only) □ pg. 35
- **6** Satellite Auto Recording Indicator (♠) (VCR deck only) 🖙 pg. 39

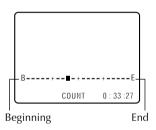
ON-SCREEN DISPLAY (VCR deck)

If you press **ON SCREEN** on the Remote when "SUPERIMPOSE" is set to "ON" (pg. 73), various operational indicators appear on the TV screen.

For On-screen display for DVD deck, refer to "Using the on-screen bar" (pg. 46).



- Operation Mode Indicators
- 2 Tape Speed (SP/EP)
- Tape Position Indicator
 The tape position indicator
 appears on the TV screen
 when you press REW (◄◄)
 or FF (▶►) from the Stop
 mode or perform an Index
 Search. (☞ pg. 28) The
 position of "■" in relation to
 "B" (beginning) or "E" (end)
 shows you where you are
 on the tape.



- **4** Index number **□** pg. 28
- **5** Tape Remaining Time Indicator **□** pg. 33
- **6** Counter Display
- **7** Audio Mode Display ☞ pg. 30
- **8** SAP Indicator **□** pg. 33
- **9** Stereo Program Indicator **□** pg. 33
- **1** Day/Clock Display
- **(1)** Channel Position Number/Auxiliary Input Indicator (F-1)
- **@** "Cassette Loaded" Mark

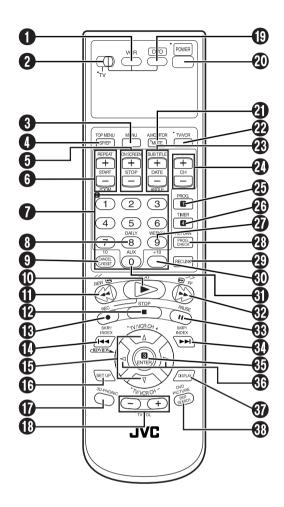
NOTE:

Depending on the type of tape being used, the tape position indicator may not appear correctly.

To recall an indication

- Press ON SCREEN.
 - All indications corresponding to the current status are displayed for 5 seconds. After that, the counter information and RECORD/PAUSE if in the Record Pause mode, remain on the screen.
- 2 Press **ON SCREEN** again to clear the display.
 - The RECORD/PAUSE indication remains on the screen.

REMOTE



Buttons with a small dot on the left side of the name (POWER (0/1), TV/VCR, TV/VCR CH +/-, TV VOL+/-, MUTE) can also be used to operate a JVC's TV after setting the TV/VCR/ DVD switch to the left.

- **1** VCR Button **□** pg. 26, 31
- 2 TV/VCR/DVD switch pg. 16
- 3 Menu Button (MENU)

 pg. 41
- 4 SP/EP Button 🖙 pg. 31

Top Menu Button (TOP MENU) 2 pg. 41

- **(5)** Stop Time Button (STOP +/-) **□** pg. 34 On-Screen Button (ON SCREEN) **□** pg. 10, 46
- ⑤ Start Time Button (START +/-) ☞ pg. 34 Repeat Button (REPEAT) ☞ pg. 48, 62, 65 Zooming Button (ZOOM) ☞ pg. 43
- **7** Number Keys 🖙 pg. 25, 31, 62
- **8** Daily Button (DAILY) □ pg. 35
- ③ Reset Button (C.RESET) ☞ pg. 33 Cancel Button (CANCEL) ☞ pg. 37 10 Button
- **1** Play Button (PLAY (►)) **1** pg. 26, 40
- **1** Rewind Button (REW (**◄◄**)) **□** pg. 26, 27, 42

- **②** Stop Button (STOP (■)) **☞** pg. 26, 31, 40
- (B) Record Button (REC (●)) pg. 31
- Reverse Skip/Index Button (SKIP/INDEX (I◄◄))
 □ pg. 28, 41
 Review Button (CREATENN)
- **⑥** Set Up Button (SET UP) □ pg. 16
- **1** 3D-Phonic Button (3D-PHONIC) □ pg. 44
- ⊕ DVD Button
 □ pg. 40
- **②** Power Button (POWER (少川)) に pg. 16, left column
- ② TV Muting Button (MUTE)
 ☐ See the left column Audio Monitor Button (A.MONITOR)
 ☐ pg. 30, 54, 55
- **②** TV/VCR Button ☞ pg. 32, left column
- ② Date Button (DATE +/-) ☞ pg. 34 Subtitle Button (SUB TITLE) ☞ pg. 52 Angle Button (ANGLE) ☞ pg. 53
- ② Channel Button (CH +/−) pg. 31
- Programming Button (PROG.) pg. 34
- Timer Button (TIMER) pg. 35
- Weekly Button (WEEKLY) □ pg. 35
- Program Check Button (PROG. CHECK)

 pg. 36

Return Button (RETURN) @ pg. 41

- ② Satellite Auto Recording Button (REC LINK)

 □ pg. 39
- **1** +10 Button
- 3 Auxiliary Button (AUX) 🖙 pg. 66
- Past Forward Button (FF (►►)) □ pg. 26, 27, 42
- 3 Pause Button (PAUSE (■)) © pg. 27, 31
- **③** ENTER Button ☞ pg. 16
- **39** ⊲ ▷ Button 🖙 pg. 16
- 1 Display Button (DISPLAY) pg. 33
- Skip Search Button (SKIP SEARCH) ☞ pg. 28
 DVD Picture Button (DVD PICTURE) ☞ pg. 45

How To Use

Before use, insert two AA size batteries into the Remote with the polarity $(\bigoplus$ and \bigoplus) matched correctly as indicated on the battery compartment or on the lid.

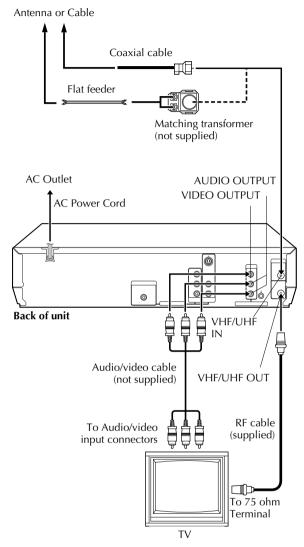
The Remote can operate most of your unit's functions, as well as basic functions of TV sets of JVC. (See the left column)

- Point the Remote toward the remote sensor.
- The maximum operating distance of the remote control is about 8 m.

NOTE:

If the Remote doesn't work properly, remove its batteries, wait a short time, replace the batteries and then try again.

Basic Connections



It's essential that your unit be properly connected.

THESE STEPS MUST BE COMPLETED BEFORE ANY VIDEO OPERATION CAN BE PERFORMED.

Check the contents.

Make sure the package contains all of the accessories listed in "SPECIFICATIONS" on page 85.

2

Situate the unit.

Place the unit on a stable, horizontal surface.

3

Connect the unit to TV.

The connection method you use depends on the type of TV you have.

RF Connection

■ To connect to a TV with NO AV input connectors —

- Disconnect the TV antenna from the TV.
- 2 Connect the TV antenna cable to the VHF/UHF IN connector on the rear panel of the unit.
- 3 Connect the supplied RF cable between the VHF/UHF OUT connector on the rear panel of the unit and the TV's antenna terminal.

AV Connection

■ To connect to a TV with AV input connectors —

- Connect the antenna, unit and TV as per "RF Connection".
- 2 Connect an optional audio/video cable between the AUDIO/VIDEO OUTPUT connectors on the rear panel of the unit and the TV's audio/video input connectors.
- Set your TV to AV mode.
- For switching the TV's mode, refer to the instruction manual of your television.

4

Connect the unit to power source.

Plug the end of the AC power cord into an AC outlet.

5

Set the VCR channel.

The VCR channel is the channel on which you can watch the picture from the unit on the TV when only using RF connection.

With RF connection, set the VCR channel to "3 CH" or "4 CH".

• The VCR channel is preset to "3 CH". Set to "4 CH" if the Channel 3 is used for broadcasting in your area.

With AV connection, set the VCR channel to "– CH" (off). To set the VCR channel, perform the following steps:

Before performing the following steps:

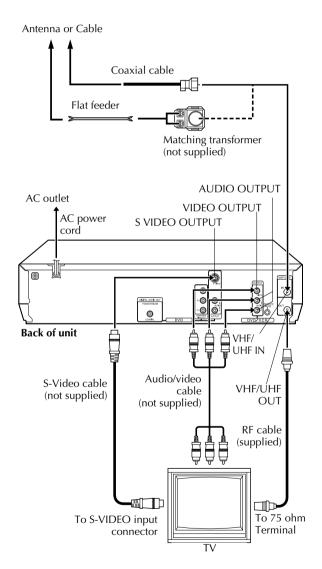
- Make sure there is no cassette inserted in the unit.
- Make sure the unit is turned on, then press VCR/ DVD on the unit or VCR on the Remote so that the VCR indicator lights up.
- When the unit is turned off, press STOP (■) on the unit for more than 5 seconds. "3 CH" appears on the front display panel.
- Press CH +/- on the Remote to select "3 CH", "4 CH" or "- CH" (off), then press ENTER.
- If Plug&Play or Tuner setting has not previously been performed, the Language Select screen appears and Plug&Play takes place automatically.

S-VIDEO Connection

(DVD deck only)

ATTENTION

Be sure to connect the unit's VIDEO OUTPUT (DVD/VCR) connector to the TV's VIDEO input connector.



■ To connect to a TV with S-VIDEO/AUDIO input connectors . . .

Conne

Connect the unit to TV.

- Connect the antenna, unit and TV as per "AV Connection" (☞ pg. 12).
 Connect the unit's S VIDEO OUTPUT (DVD)
- Connect the unit's S VIDEO OUTPUT (DVD) connector to the TV's S-VIDEO input connector.

Connect the unit to power source.

Plug the end of the AC power cord into an AC outlet.

Set the VCR channel to off.

Before performing the following steps:

- Make sure there is no cassette inserted in the unit.
- Make sure the unit is turned on, then press VCR/ DVD on the unit or VCR on the Remote so that the VCR indicator lights up.
- When the unit is turned off, press STOP (■) on the unit for more than 5 seconds. "3 CH" appears on the front display panel.
- 2 Press CH +/- on the Remote to select "- CH" (off), then press ENTER.
- If Plug&Play or Tuner setting has not previously been performed, the Language Select screen appears and Plug&Play takes place automatically.

NOTES:

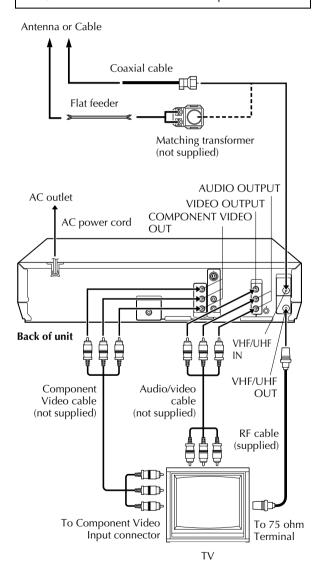
- You can obtain high-quality S-VIDEO pictures.
- If your TV is not stereo-capable, use the unit's AUDIO OUTPUT connectors to connect to an audio amplifier for Hi-Fi stereo sound reproduction.
- HI-FI stereo sound reproduction.
- To operate the unit with your TV using the S-VIDEO connection, set your TV to its AV mode. You can also use the TV/VCR button on the unit's Remote to set JVC TV to the AV mode.
- For switching the TV's mode, refer to the instruction manual of your television.
- Only DVD picture is output from S-VIDEO OUTPUT connector. (VCR picture is not output.)

Component Video Connection

(DVD deck only)

ATTENTION

Be sure to connect the unit's VIDEO OUTPUT (DVD/VCR) connector to the TV's VIDEO input connector.



■ To connect to a TV with component video input connectors . . .

Connect the unit to TV.

- ☐ Connect the aerial, unit and TV as per "AV Connection" (☐ pg. 12).
- 2 Connect the unit's COMPONENT VIDEO OUT connectors to the TV's component video input connectors.

Connect the unit to power source.

Plug the end of the AC power cord into an AC outlet.

Set the VCR channel to off.

Before performing the following steps:

- Make sure there is no cassette inserted in the unit.
- Make sure the unit is turned on, then press VCR/ DVD on the unit or VCR on the Remote so that the VCR indicator lights up.
- 1 When the unit is turned off, press **STOP** (■) on the unit for more than 5 seconds. "3 CH" appears on the front display panel.
- 2 Press CH +/- on the Remote to select "- CH" (off), then press ENTER.
- If Plug&Play or Tuner setting has not previously been performed, the Language Select screen appears and Plug&Play takes place automatically.

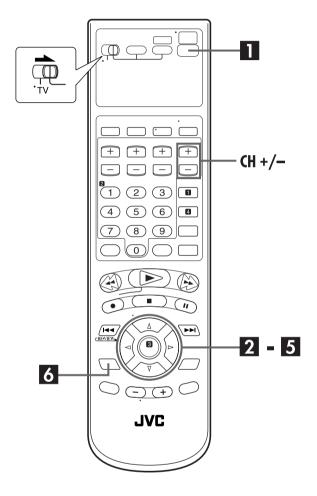
NOTES:

- You can obtain high-quality component video pictures.
- If your TV is not stereo-capable, use the unit's AUDIO OUTPUT connectors to connect to an audio amplifier for Hi-Fi stereo sound reproduction.
- To operate the unit with your TV using the Component Video connection, set your TV to its AV mode. You can also use the TV/VCR button on the unit's Remote to set JVC TV to the AV mode.
- For switching the TV's mode, refer to the instruction manual of your television.
- By using the component video connection, you can view the images in the progressive mode. For switching to the progressive mode, refer to "Scan Mode Set (DVD deck)" (LF pg. 78).

Plug & Play Set

Auto Channel Set

The Plug & Play Set simplifies installation by guiding you through the procedures of setting the language, clock and tuner channels – simply follow the on-screen menus that appear.



NOTE:

If there is a power cut, or if you press **POWER** (0/1) or **SET UP** while Auto Channel Set is in progress, Auto Channel Set will be interrupted; be sure to turn off the unit power once and try again from step \blacksquare .

ATTENTION

If you perform Auto Channel Set successfully during installation, there's no need to separately perform the Language Select, Clock Set or Channel Set procedures, but if adjustments become necessary, they can be performed as follows:

- Language setting ☐ pg. 18
- Tuner setting
 □ pg. 24
- Clock setting pg. 22

Before starting, make sure of the following:

- The TV aerial cable should be connected to the unit.
- The unit's AC power cord should be connected to an AC outlet.
- The TV should be set to its AV mode (with AV, S-VIDEO or Component Video connection (☐ pg. 12, 13, 14) or VCR channel (with RF connection ☐ pg. 12)).
- Slide the TV/VCR/DVD switch to the right.

1

Turn on the unit.

Press **POWER** (선계) on the unit or Remote. The Language Select screen appears on the TV screen.

2

Select the language.

Press $\triangle \nabla$ to move the highlight bar (arrow) to the language of your choice, then press **ENTER** or \triangleright .

• The Clock Set screen appears.



NOTE:

The selected language is only available on the screen for VCR deck. Set manually the on-screen language for the DVD deck. (CF pg. 19)

3

Set the time.

Press $\triangle \nabla$ to set the hour, then press **ENTER** or \triangleright .

 Press and hold △▽ to change the time by 30 minutes.



Set the date.

Press $\triangle \nabla$ to set the date, then press **ENTER** or \triangleright .

- Press and hold $\triangle \nabla$ to change the date by 15 days.
- Set the year.

Press $\triangle \nabla$ to set the year.

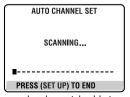
6

Start Auto Channel Set.

Press **SET UP**.

DO NOT press any button on the unit or Remote while Auto Channel Set is in progress.

- Receivable channels in your area are automatically assigned to the CH +/– buttons, and non-receivable channels are skipped.
- When Auto Channel Set is completed, "SCAN COMPLETED" will appear on the TV screen. If "SCAN COMPLETED –NO SIGNAL–



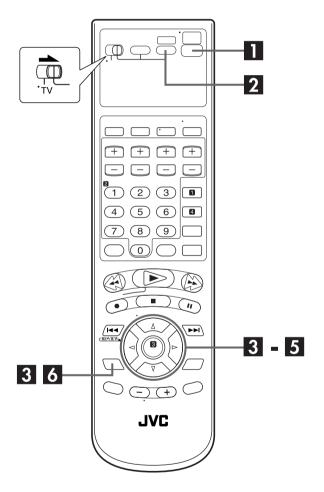
" is displayed on the TV screen, make sure that the aerial cable is connected to the unit properly and press **ENTER** on the Remote. The

Monitor Set

(DVD deck)

You can select the monitor type depending the TV used when you play back DVD VIDEO discs recorded for wide-screen TVs.

- Turn on the TV and select the VCR channel (or AV mode).
- Slide the TV/VCR/DVD switch to the right.



Turn on the unit.

Press **POWER** (也/1).

Select the DVD deck.

On the unit

Press **VCR/DVD** repeatedly so that the DVD indicator lights up.

On the Remote

Press **DVD** so that the DVD indicator lights up.

Access the DVD Set Up menu screen.

Press SET UP.
 Press < > to select
 "■ PICTURE".



Select the mode.

Press $\triangle \nabla$ to move the highlight to "MONITOR TYPE", then press **ENTER**.



Select the mode setting.

Press $\triangle \nabla$ to select the desired setting, then press **ENTER**.

Return to the normal screen.

Press **SET UP**.

* The default setting is **bold** in the table below.

MONITOR TYPE

16:9 (Wide television conversion):

Select this when the aspect ratio of your TV is fixed to 16:9 (wide TV). The unit automatically adjusts the screen width of the output signal correctly when playing back a picture whose aspect ratio is 4:3.

4:3 LB (Letter Box conversion):

Select this when the aspect ratio of your TV is 4:3 (conventional TV). While viewing a wide screen picture, the black bars appear on the top and the bottom of the screen.

4:3 PS (Pan&Scan):

Select this when the aspect ratio of your TV is 4:3 (conventional TV). While viewing a wide screen picture, the black bars do not appear; however, the left and right edges of the pictures will not be shown on the screen.

The following selections will be output in PAL format when a disc recorded in PAL system is being playback. They are only valid when multisystem television is connected.

However, these selections will not be available in your area.

16:9 MULTI (Wide television conversion with Multi-System):

The operation is the same as 16:9, but the image being output will be in line with the image format of the DVD disc being playback. (E.g. When playing back a PAL system DVD disc, the image output from the Audio/Video Output will be in PAL format.)

4:3 MULTI LB (Letter Box conversion with Multi-System):

The operation is the same as 4:3 LB, but the image being output will be in line with the image format of the DVD disc being playback.

4:3 MULTI PS (Pan&Scan with Multi-System): The operation is the same as 4:3 PS, but the image being output will be in line with the image format of the DVD disc being playback.

Pan&Scan/Letter Box

In general, DVD VIDEO disc are produced for a wide-screen TV with 16:9 aspect ratio.

Material with this ratio will not fit to a TV with 4:3 aspect ratio. There are two styles to display the image, "Pan&Scan" (PS) and "Letter Box" (LB).

Pan&Scan

The right and left side of the image are cut off. The image fills the screen.



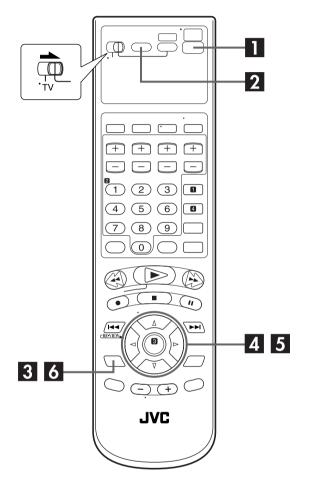
Letter Box

Black bands appear at the top and bottom of the image. The image itself appears in 16:9 aspect ratio.



Language

- Turn on the TV and select the VCR channel (or AV mode).
- Slide the TV/VCR/DVD switch to the right.



On-screen Language Set (VCR deck)

Use language setting only if the language has not been set correctly by the Plug&Play setting. The default setting is "ESPAÑOL".



Turn on the unit.

Press **POWER** (也/1).

2

Select the VCR deck.

On the unit

Press **VCR/DVD** repeatedly so that the VCR indicator lights up.

On the Remote

Press **VCR** so that the VCR indicator lights up.

3

Access the Main Menu screen.

Press **SET UP**.

4

Access the Initial Set screen.

Press $\triangle \nabla$ to move the highlight bar (arrow) to "ADJUSTE INICIAL", then press **ENTER** or \triangleright .

MENU PRINCIPAL

ADJUSTE DE FUNCTION
ADJUSTE DE SINTONIZADOR

→ADJUSTE INICIAL

ELEGIR CON (A,♥) Y (ENTER)
PULSE (SET UP) P/ TERMINAR

5

Select the language.

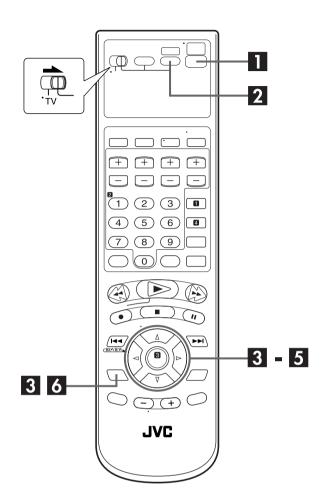
Press $\triangle \nabla$ to move the highlight bar (arrow) to "IDIOMA", then press **ENTER** or \triangleright repeatedly to select for "INGLÉS" for English.



6

Return to the normal screen.

Press **SET UP**.



On-screen Language Set (DVD deck)

This DVD deck offers you the choice to view on-screen messages in 3 different languages. You can change the language setting manually as required. The default language is "ENGLISH".

Turn on the unit.

Press **POWER** (也/1).

Select the DVD deck.

Press **VCR/DVD** repeatedly so that the DVD indicator lights up.

On the Remote

Press **DVD** so that the DVD indicator lights up.



Press <> ▷ to select "A LANGUAGE".



Select the mode.

Press $\triangle \nabla$ to move the highlight to "ON SCREEN LANGUAGE", then press ENTER.

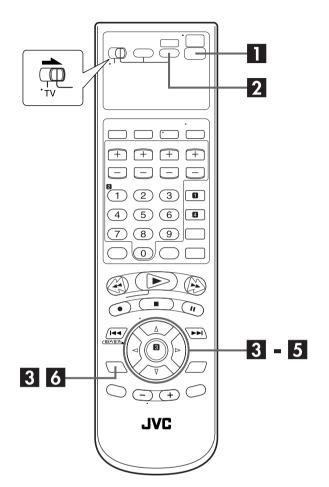


Select the mode setting.

Press $\triangle \nabla$ to select the desired setting, then press **ENTER**.

Return to the normal screen.

Press **SET UP**.



Menu/Audio/Subtitle Language Set (DVD deck only)

Some DVD discs contain the DVD menu display, audio, subtitle in the multiple languages. With these discs, you can set the default language as you like.

 The procedure shows how to set "MENU LANGUAGE" on the DVD Set Up menu screen as an example.

Turn on the unit.

Press **POWER** (也/1).

2

Select the DVD deck.

On the unit

Press **VCR/DVD** repeatedly so that the DVD indicator lights up.

On the Remote

Press **DVD** so that the DVD indicator lights up.

Access the DVD Set Up menu screen.

Press **SET UP**.
 Press ▷ to select "▲ LANGUAGE".



Select the mode.

Press $\triangle \nabla$ to move the highlight to "MENU LANGUAGE", then press **ENTER**.



Select the mode setting.

Press $\triangle \nabla$ to select the desired setting, then press **ENTER**. • See "Language Code List" (\square pg. 21).

Return to the normal screen.

Press SET UP.

NOTE:

When the selected language is not available on the disc, the disc's default menu language is played back.

Language Code List

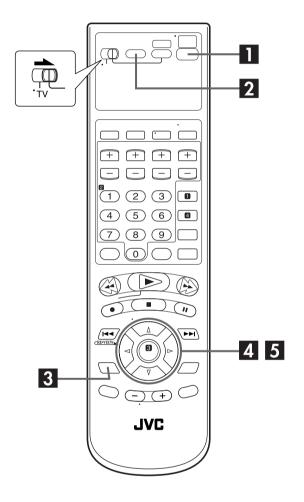
AA	Afar
AB	Abkhazian
AF	Afrikaans
AM	Ameharic
AR	Arabic
AS	Assamese
AY	Aymara
ΑZ	Azerbaijani
BA	Bashkir [*]
BE	Byelorussian
BG	Bulgarian
BH	Bihari
BI	Bislama
BN	Bengali, Bangla
ВО	Tibetan
BR	Breton
CA	Catalan
CO	Corsican
CS	Czech
CY	Welsh
DA	Danish
DZ	Bhutani
EL	Greek
EO	Esperanto
ET	Estonian
EU	Basque
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
HY	Armenian
IA	Interlingua
IE	Interlingue

IK Inupiak IN Indonesian IS Icelandic IW Hebrew JI Yiddish JW Javanese KA Georgian KK Kazakh KL Greenlandic KM Cambodian KN Kannada KO Korean (KOR) KS Kashmiri KU Kurdish KY Kirghiz LA Latin LN Lingala LO Laothian LT Lithuanian LT Lithuanian LT Lithuanian 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 OM (Afan) Oromo OR Oriya PA Panjabi PL Polish PS Pashto, Pushto PT Portuguese QU Quechua RM Rhaeto-Romance		
IN Indonesian IS Icelandic IW Hebrew JI Yiddish JW Javanese KA Georgian KK Kazakh KL Greenlandic KM Cambodian KN Kannada KO 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 OM (Afan) Oromo OR Oriya PA Panjabi PL Polish PS Pashto, Pushto PT Portuguese QU Quechua	IK	Inupiak
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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 OM (Afan) Oromo OR Oriya PA Panjabi PL Polish PS Pashto, Pushto PT Portuguese QU Quechua	KO	Korean (KOR)
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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 OM (Afan) Oromo OR Oriya PA Panjabi PL Polish PS Pashto, Pushto PT Portuguese QU Quechua	MI	Maori
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MO Moldavian MR Marathi MS Malay (MAY) MT Maltese MY Burmese NA Nauru NE Nepali NL Dutch NO Norwegian OC Occitan OM (Afan) Oromo OR Oriya PA Panjabi PL Polish PS Pashto, Pushto PT Portuguese QU Quechua	ML	Malayalam
MR Marathi MS Malay (MAY) MT Maltese MY Burmese NA Nauru NE Nepali NL Dutch NO Norwegian OC Occitan OM (Afan) Oromo OR Oriya PA Panjabi PL Polish PS Pashto, Pushto PT Portuguese QU Quechua		Mongolian
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MT Maltese MY Burmese NA Nauru NE Nepali NL Dutch NO Norwegian OC Occitan OM (Afan) Oromo OR Oriya PA Panjabi PL Polish PS Pashto, Pushto PT Portuguese QU Quechua		
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OC Occitan OM (Afan) Oromo OR Oriya PA Panjabi PL Polish PS Pashto, Pushto PT Portuguese QU Quechua		
OM (Afan) Oromo OR Oriya PA Panjabi PL Polish PS Pashto, Pushto PT Portuguese QU Quechua		O
OR Oriya PA Panjabi PL Polish PS Pashto, Pushto PT Portuguese QU Quechua	l l	
PA Panjabi PL Polish PS Pashto, Pushto PT Portuguese QU Quechua		
PL Polish PS Pashto, Pushto PT Portuguese QU Quechua		
PS Pashto, Pushto PT Portuguese QU Quechua		
PT Portuguese QU Quechua		
QU Quechua		'
K/M Khaeto-Komance		
	KM	Knaeto-Komance

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
TI	Tigrinya
TK	Turkmen
TL	Tagalog
TN	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

Clock Set

- Turn on the TV and select the VCR channel (or AV mode).
- Slide the TV/VCR/DVD switch to the right.



Perform clock setting only if the clock has not been set correctly by the Plug&Play setting.

1

Turn on the unit.

Press **POWER** (也/1).

2

Select the VCR deck.

On the unit

Press **VCR/DVD** repeatedly so that the VCR indicator lights up.

On the Remote

Press VCR so that the VCR indicator lights up.

3

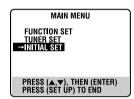
Access the Main Menu screen.

Press SET UP.

4

Access the Initial Set screen.

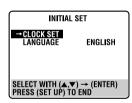
Press $\triangle \nabla$ to move the highlight bar (arrow) to "INITIAL SET", then press **ENTER** or \triangleright .

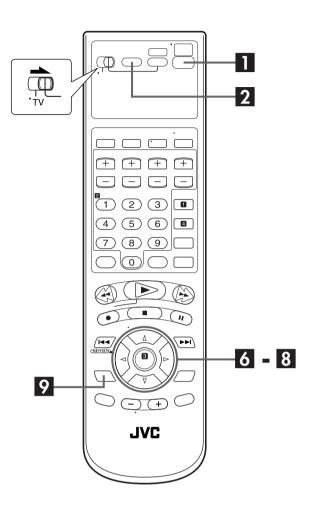




Access the Clock Set screen.

Press $\triangle \nabla$ to move the highlight bar (arrow) to "CLOCK SET", then press **ENTER** or \triangleright .

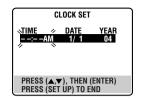




6 Set the time.

Press $\triangle \nabla$ to set the hour, then press **ENTER** or \triangleright .

 Press and hold △▽ to change the time by 30 minutes.



Set the date.

Press $\triangle \nabla$ to set the date, then press **ENTER** or \triangleright .

ullet Press and hold $\triangle \nabla$ to change the date by 15 days.

Set the year.

Press $\triangle \nabla$ to set the year.

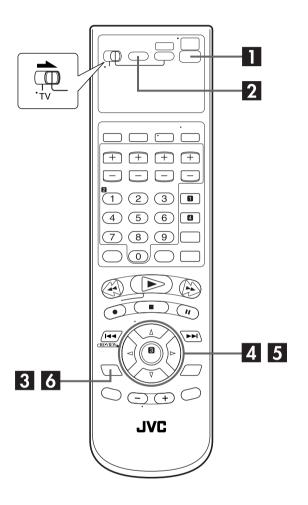
9 Start clock.

Press **SET UP** and normal screen appears.

To make corrections any time during the process Press ENTER or \triangleright repeatedly until the item you want to change blinks, then press $\triangle \nabla$.

Tuner Set

- Turn on the TV and select the VCR channel (or AV mode).
- Slide the TV/VCR/DVD switch to the right.



INFORMATION

The unit selects the correct band (TV or CATV) automatically during Auto Channel Set. The selected band will be displayed on the right side of "BAND" on the Tuner Set screen.

Auto Channel Set

Perform Auto Channel Set only if channels have not been set correctly by the Plug&Play setting.

Turn on the unit.

Press **POWER** (也/1).

2

Select the VCR deck.

On the unit

Press **VCR/DVD** repeatedly so that the VCR indicator lights up.

On the Remote

Press VCR so that the VCR indicator lights up.

3

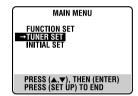
Access the Main Menu screen.

Press SET UP.



Access the Tuner Set screen.

Press $\triangle \nabla$ to move the highlight bar (arrow) to "TUNER SET", then press **ENTER** or \triangleright .

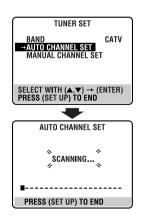


5

Perform Auto Channel Set.

Press $\triangle \nabla$ to move the highlight bar (arrow) to "AUTO CHANNEL SET", then press **ENTER** or \triangleright . You can automatically set the receivable channels in your area in the order of their frequencies.

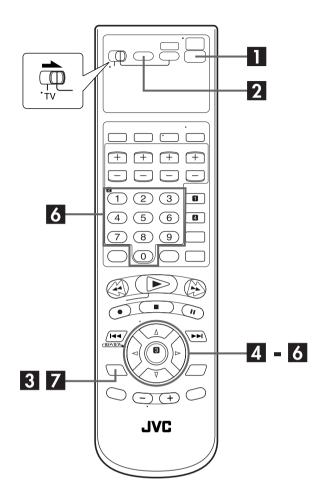
- When Auto Channel Set is complete, "SCAN COMPLETED" appears on the TV screen.
- If the scan was unsuccessful, "SCAN COMPLETED-NO SIGNAL-" appears on screen. Check the connections and start again.



6

Return to the normal screen.

Press **SET UP**.



Manual Channel Set

You can add the channels you want or delete the channels you do not want manually.

1

Turn on the unit.

Press **POWER** (也/l).

2

Select the VCR deck.

On the unit

Press **VCR/DVD** repeatedly so that the VCR indicator lights up.

On the Remote

Press VCR so that the VCR indicator lights up.

3

Access the Main Menu screen.

Press **SET UP**.

4. A

Access the Tuner Set screen.

Press $\triangle \nabla$ to move the highlight bar (arrow) to "TUNER SET", then press **ENTER** or \triangleright .

5

Access the Manual Channel Set screen.

Press $\triangle \nabla$ to move the highlight bar (arrow) to "MANUAL CHANNEL SET", then press **ENTER** or \triangleright .



6

Add or skip the desired channels.

To add channels

- 1 Press the **number keys** to input a channel number you want to add.
- 2 Press **ENTER** or ▷ to set to "ADD".
- 3 Repeat 1 to 2 to add other channels.



To skip channels

- Press $\triangle \nabla$ or the **number keys** to select a channel number you want to skip.
- 2 Press **ENTER** or \triangleright to set to "SKIP".
- 3 Repeat 1 and 2 to skip other channels.

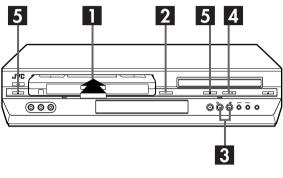


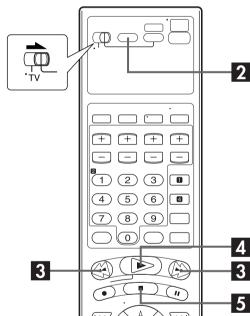
Return to the normal screen.

Press **SET UP**.

Basic Playback

- Turn on the TV and select the VCR channel (or AV
- Slide the TV/VCR/DVD switch to the right.





Clean the video heads using a dry cleaning cassette — ECL-3F — when:

- Rough, poor picture appears while a tape is played back.
- The picture is unclear or no picture appears.
 "USE CLEANING CASSETTE" appears on the screen (only with "SUPERIMPOSE" set to "ON"). (Fig. pg. 73)

NOTE:

The heads get dirty in the following cases:

- in an environment prone to extreme temperature or humidity
- in a dusty environment
- flaw, dirt or mold on video tapes
- continuous usage for a long time

Load a cassette.

Make sure the window side is up, the rear label side is facing you and the arrow on the front of the cassette is pointed toward the unit.

- Do not apply too much pressure when inserting.
- If the record safety tab has been removed, playback begins automatically. Although the DVD deck is selected, the VCR deck is selected automatically if the DVD deck is in stop
- The unit's power comes on automatically and the counter is reset to 0:00:00.

Select the VCR deck.

Press VCR/DVD repeatedly so that the VCR indicator lights up.

On the Remote

Press **VCR** so that the VCR indicator lights up.

Find the program start point.

If the tape is advanced past the start point, press **REW** $(\blacktriangleleft \blacktriangleleft)$. To go forward, press **FF** $(\blacktriangleright \blacktriangleright)$.

Start playback.

Press **PLAY** (►).



Stop playback.

Press **STOP** (■). Then press **EJECT** (♠) on the VCR deck to remove the cassette.

Usable cassettes

Full-Size VHS

T-30 (ST-30**) T-60 (ST-60**) T90

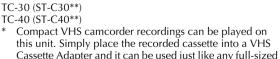
T-120 (ST-120**) T-160 (ST-160**)



ST-210**

TC-20 (ST-C20**)

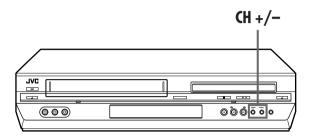
TC-40 (ST-C40**)

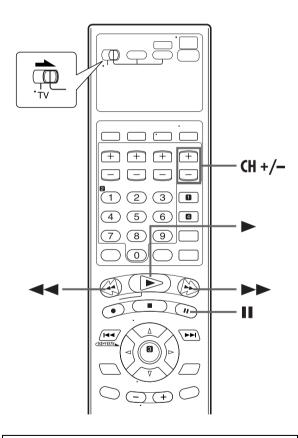


- Cassette Adapter and it can be used just like any full-sized ** This unit can record on regular VHS and Super VHS
- cassettes. However, it will record regular VHS signals
- S-VHS recording is not possible with this unit.
- This unit is equipped with SQPB (S-VHS QUASI PLAYBACK) that lets you watch tapes recorded in the S-VHS format and the SP mode with regular VHS
 - SQPB does not deliver Super VHS resolution.

Playback Features

- Turn on the TV and select the VCR channel (or AV mode).
- Slide the TV/VCR/DVD switch to the right.





ATTENTION

In the search, still, slow-motion or frame-by-frame playback mode,

- the picture will be distorted.
- the noise bars will appear.
- there may be a loss of color.
- you cannot hear the sound.

Still Picture/Frame-By-Frame Playback

1 Pause during playback.

Press PAUSE (II).

• If there is vertical jitter, press **CH** +/– on the Remote or on the unit to correct the picture.

2 Activate frame-by-frame playback.

Press **PAUSE** (**11**) to advance a still picture.

Slow Motion

1 Pause during playback.

Press PAUSE (II).

2 Activate slow motion playback.

Press and hold **PAUSE** (II) for 2 seconds, then release. Press **PAUSE** (II) and release again to return to still picture.

NOTE:

During slow motion playback, some noise may appear on the TV screen. Press **CH** + or – on the Remote or on the unit to eliminate the noises.

Variable Speed Search

During playback, press **FF** (►►) for forward variable speed search, or **REW** (►►) for reverse variable speed search.

The speed changes for each direction by pressing REW (◄◄) and FF (►►) repeatedly.

When pressing **FF** (►►):

(SP): $+5x \leftrightarrow +7x$

(EP): +11x ← +21x

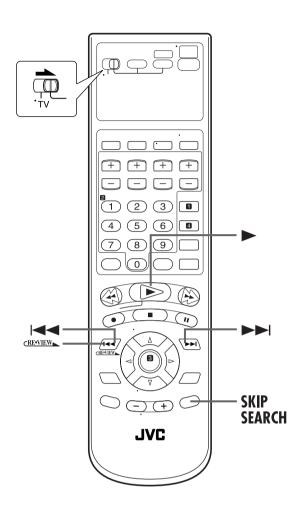
When pressing **REW** (◀**◄**):

Once **ŘEW** ($\blacktriangleleft \blacktriangleleft$) is pressed, reverse search starts in -1x normal playback speed. After this process, each press of **REW** ($\blacktriangleleft \blacktriangleleft$) changes the search speed between -5x and -7x in SP mode, -11x and -21x in EP mode.

(SP): $-1x \rightarrow -5x \leftrightarrow -7x$

(EP): $-1x \rightarrow -11x \leftrightarrow -21x$

To resume normal playback, press **PLAY** (►).



Skip Search

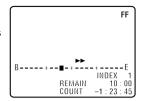
During playback, press **SKIP SEARCH** 1 to 6 times to skip over unwanted sections.

Each press initiates a 30-second period of fast-motion playback. Normal playback resumes automatically.

To resume normal playback during a Skip Search, press **PLAY** (►).

Index Search

Your unit automatically marks index codes at the beginning of each recording. This function gives you quick access to any one of 9 index codes in either direction.



NOTE:

Before starting, make sure the unit is in the Stop mode.

Activate Index Search.

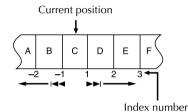
Press **INDEX** (I◀◀) or **INDEX** (▶►I). "INDEX −1" or "INDEX 1" is displayed on the TV screen and search begins in the corresponding direction.

 To access index codes 2 through 9, press INDEX (I◄◄) or INDEX (►►I) repeatedly until the correct index number is displayed.

Example:

To locate the beginning of B from the current position, press **INDEX** (I◀◀) twice.

To locate the beginning of D from the current position, press **INDEX** (►►) once.



 When the specified index code is located, playback begins automatically.

Instant ReView

Simply by pressing a single button, the unit power comes on, rewinds, and begins playback of the last timer-recorded program. If you have several programs recorded, you can easily access any of them.

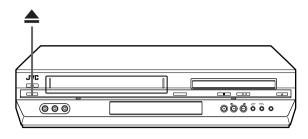
NOTE:

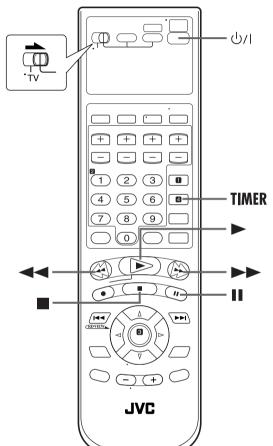
Before starting, make sure that the unit is off and that the Timer mode is disengaged.

Activate Instant ReView.

Press CREWIEW. The unit power comes on and the unit searches for the index code indicating the start of the last timer-recorded program. Once it's found, playback begins automatically.

 To watch the first of the 3 programs, press CREVIEW three times. The unit searches and begins playback automatically.
 You can access a program as far as 9 index codes away from the current tape position.





Next Function Memory

The Next Function Memory "tells" the unit what to do after rewinding. Before continuing, make sure the unit is in the Stop mode.

- **a-** For Automatic Start Of Playback Press **REW** (◀◀), then press **PLAY** (▶) within 2 seconds.
- **b-** For Automatic Power Off Press **REW** (◄◄), then press **POWER** (७/۱) within 2 seconds.
- **c-** For Automatic Timer Standby
 Press **REW** (◀◀), then press **TIMER** within 2 seconds.
- **d-** For Automatic Cassette Ejection After Tape Rewind Press **REW** (◀◀), then press **EJECT** (♠) within 2 seconds.

Repeat Playback

Your unit can automatically play back the whole tape 100 times repeatedly.

1 Start playback.

Press **PLAY** (►).

2 Activate Repeat Playback.

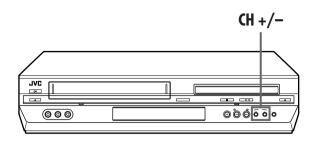
Press **PLAY** (►) and hold for over 5 seconds, then release.

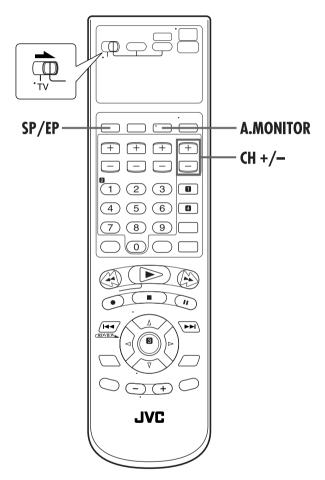
- The Play indicator (▷) on the front display panel blinks slowly.
- After playing back a tape 100 times, the unit stops automatically.

3 Stop Repeat Playback.

Press **STOP** (■) at any time.

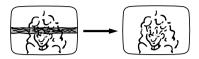
 Pressing PLAY (►), REW (◄◄), FF (►►) or PAUSE (II) also stops Repeat Playback.





Manual Tracking

Your unit is equipped with automatic tracking control. During playback, you can override this and adjust the tracking manually by pressing the **CH** buttons.



1 Override automatic tracking.

During playback, press **SP/EP** on the Remote.

2 Adjust the tracking manually.

Press **CH** + or – on the Remote or on the unit.

• Press SP/EP again to return to automatic tracking.

NOTE:

When a new tape is inserted, the unit enters the automatic tracking mode automatically.

Soundtrack Selection

Your unit is capable of recording three soundtracks (HI-FI L, HI-FI R and NORM) and will play back the one you select.

During Playback

Pressing **A.MONITOR** changes the soundtrack as follows:

• You can also select the soundtrack on the Function Set screen. (127 pg. 74)

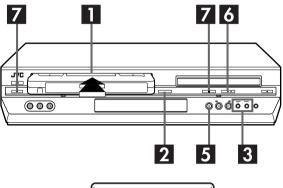
TRACK	USE
On-Screen Display	USE
H I-F I	Hi-Fi sound is played back
H I-F I L	Sound on the left Hi-Fi channel is played back
H I-F I R	Sound on the right Hi-Fi channel is played back
NORM	Sound on the normal track is played back
NORM H I-F I	Both sounds on the Hi-Fi track and normal track are mixed and played back

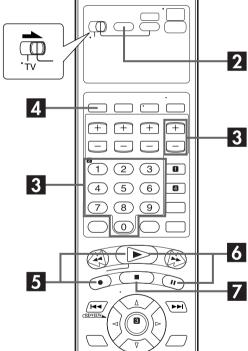
NOTES:

- "HIFI" should normally be selected. In this mode, Hi-Fi stereo tapes are played back in stereo, and the normal audio track is played back automatically for tapes with only normal audio.
- "SUPERIMPOSE" must be set to "ON" or the on-screen displays will not appear. (pp. 73)

Basic Recording

- Turn on the TV and select the VCR channel (or AV mode).
- Slide the TV/VCR/DVD switch to the right.





Recording Resume Function

If there is a power outage during recording, Instant Timer Recording or timer recording (pg. 31, 32, 34), the recording will resume automatically when power is restored to the unit unless the unit's memory backup has expired.

Load a cassette.

Insert a cassette with the record safety tab intact.

- The unit's power comes on automatically and the counter is reset to 0:00:00.
- Select the VCR deck.

On the unit

Press **VCR/DVD** repeatedly so that the VCR indicator lights up.

On the Remote

Press VCR so that the VCR indicator lights up.

Choose a program.

Press **CH** +/- or the **number keys** to select the channel you wish to record.

Set the tape speed.

Press **SP/EP**. The current setting appears on the front display panel or TV screen. Press **SP/EP** again to change the setting while the tape speed is displayed on the TV screen.

5 Start recording.

Press and hold **REC** (\bullet) and press **PLAY** (\triangleright) on the Remote, or press **REC** (\bullet) on the unit.

Pause/Resume recording.

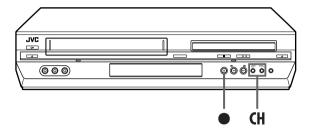
Press **PAUSE** (**■**). Press **PLAY** (**▶**) to resume recording. • You can select channel during the Record Pause mode.

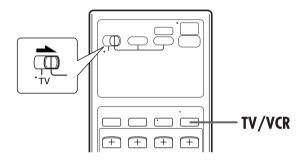
7 Stop recording.

Press **STOP** (■). Then press **EJECT** (♠) on the VCR deck to remove the cassette.

Recording Features

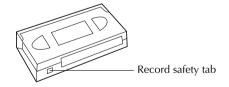
- Turn on the TV and select the VCR channel (or AV mode).
- Slide the TV/VCR/DVD switch to the right.





Accidental erasure prevention

To prevent accidental recording on a recorded cassette, remove its safety tab. To record on it later, cover the hole with adhesive tape.



Record One Program While Watching Another

If your unit is connected to the TV via the AV connection, press **TV/VCR**. The VCR indicator on the front display panel and the TV broadcast being recorded disappear. Once recording is in progress, all you need to do is to set the channel controls on the TV for the station you wish to view.

 The program selected with the TV's channel controls appears on the TV screen, while the one selected with the unit's CH buttons is recorded on the tape.

NOTE:

You can also use the DVD deck in the following cases. Before use, be sure to turn on the unit and select the DVD deck.

- During recording
- During timer recording
- During timer standby mode

Instant Timer Recording (ITR)

This easy method lets you record for from 30 minutes to 6 hours (selectable in 30-min. increments), and shuts the unit off after recording is finished.

1 Start recording.

Press **REC** (●) on the unit.

2 Engage the ITR mode.

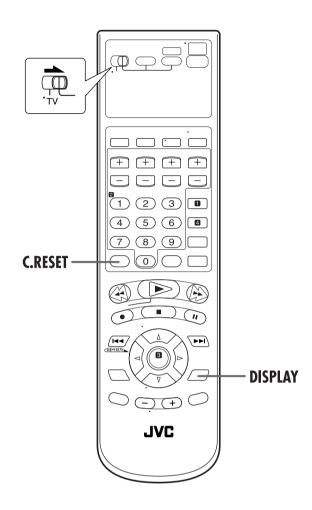
Press **REC** (●) again. "○" blinks and "0:30" appears on the front display panel.

3 Set the recording duration.

If you want to record for more than 30 minutes, press **REC** (●) to extend the time. Each press extends recording time by 30 minutes.

NOTES:

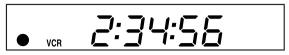
- You can only perform ITR using the REC (●) button on the unit's front panel.
- Still picture playback stops automatically after 5 minutes to protect the heads.
- When the end of the tape is reached during timer recording, the unit stops and "○" and "▷" blink on the front display panel.
- When the end of the tape is reached during timer recording or Instant Timer Recording, the unit is turned off and "○" and "▷" blink on the front display panel.
- During Instant Timer Recording, any other timer programmed recording won't start even if their start time has come. In such a case, the timer programmed recording starts (if the end time of the timer programmed recording is set after the end of Instant Timer Recording) after the Instant Timer Recording finishes.



Elapsed Recording Time Indication

1 Set the counter display.

Press **DISPLAY** until a counter reading appears on the front display panel.



2 Reset the counter.

Press **C.RESET** before starting recording or playback.

• The counter is reset to "0:00:00" and shows the exact elapsed time as the tape runs. You can check the exact time of a recording or playback.

Tape Remaining Time

Press **DISPLAY** until the time remaining on the tape appears.

• The front display panel shows the tape remaining time with ":" blinking.



 By pressing the DISPLAY button, you can change display to show the channel position*, clock time, counter reading or tape remaining time.

* Channel position is not displayed during playback.

NOTES:

- When you press ON SCREEN, the on-screen display appears on the TV screen for 5 seconds, then the displays other than the counter disappears. To clear the counter display, press ON SCREEN.
- Depending on the type of tape being used, the tape remaining time reading may not appear right away, or is not correct.
 "--:--" may sometimes appear with ":" blinking, or the display may blink on occasion.

Second Audio Recording

This unit's built-in MTS decoder enables reception of Multichannel TV Sound broadcast. To record a SAP program received, set "2ND AUDIO RECORD" to "ON". (LF pg. 74)

NOTE:

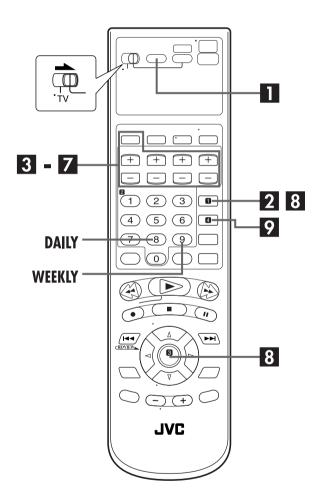
When the channel is changed on the unit;

- The "STEREO" indicator appears on the screen for about 5 seconds if the program is a stereo broadcast.
- The "SAP" indicator appears on the screen for about 5 seconds if the program is a SAP broadcast.
- Both indicators appear when a stereo program is accompanied by SAP sound.

Express Timer Programming

Before performing Express Timer Programming:

- Make sure that the unit's built-in clock is set properly.
- Insert a cassette with the safety tab in place. The unit will come on automatically.
- Turn on the TV and select the VCR channel (or AV mode).
- Slide the TV/VCR/DVD switch to the right.



Example: To timer-record the program from 8:00 PM to 10:00 PM on 24th December, on channel 12.

1

Select the VCR deck.

On the unit

Press **VCR/DVD** repeatedly so that the VCR indicator lights up.

On the Remote

Press VCR so that the VCR indicator lights up.

2

Access the Program screen.

Press **PROG.**. (If you're just starting out, "PROGRAM 1" appears.)



Enter the program start time.

Press **START** +/- to enter the time you want recording to start.

 Press and hold START +/- to move in 30-minute increments, or press and release repeatedly to move 1 minute at a time.



4. E

Enter the program stop time.

Press **STOP** +/– to enter the time you want recording to stop.

 Press and hold STOP +/- to move in 30-minute increments, or press and release repeatedly to move 1 minute at a time.

5

Enter the program date.

Press **DATE** +/-.

• The current date appears on the TV screen. The date you enter appears in its place.



Enter the channel position.

Press CH +/-.



Set the tape speed.

Press SP/EP.

8

Return to the normal screen.

Press **PROG.** or **ENTER**. "PROGRAM COMPLETED" appears on the TV screen for about 5 seconds, then the normal screen appears. If "PROGRAM NOT COMPLETED PROGRAM OVERLAP" appears on the TV screen, see page 38.

• Repeat steps **2** – **3** for each additional program.

9

Engage the unit's timer mode.

Press **TIMER**. The unit turns off automatically and "❷" appears on the front display panel.

• To disengage the timer mode, press **TIMER** again.

To Timer-Record Weekly Or Daily Serials:

— anytime during steps **3** through **7**, press **WEEKLY** (**number key "9"**) for weekly serials or **DAILY** (**number key "8"**) for daily serials (Monday – Friday). Either "WEEKLY" or "DAILY" appears on the TV screen. Pressing the button again makes the corresponding indication disappear.

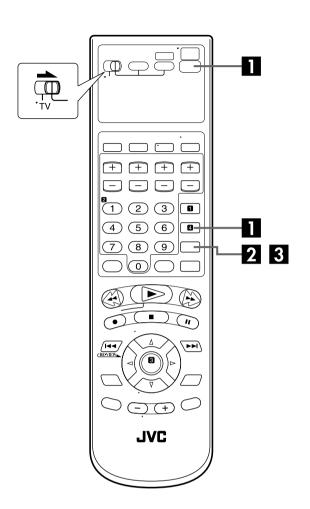
NOTES:

- You can program this unit to timer-record as many as 8 programs. If you try to program the unit to record a ninth, "PROGRAM FULL" appears on the TV screen. To record the extra program, you must first cancel any unnecessary programs. (F) pg. 37)
- Programs that start after midnight must have the next day's date.

Cable Box or DBS Receiver Users

To timer-record a satellite broadcast using Express Timer Programming:

- ☐ Perform steps ☐ ②. Enter "F-1" for the channel position in step ⑤.
- 2 Set the DBS receiver to the appropriate channel before the selected program begins.
- 3 Leave the DBS receiver's power on.



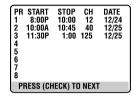
Check, cancel and change programs

Disengage the timer mode.

Press **TIMER**, then press **POWER** (७/۱).

Access the Program Check screen.

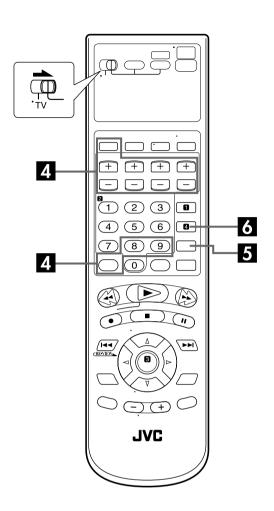
Press **PROG. CHECK**.



Access the Program screen.

Press **PROG. CHECK** again to check more information. Each time you press **PROG. CHECK**, the next program's information appears.





To cancel or change a program

4. Cancel or change a program.

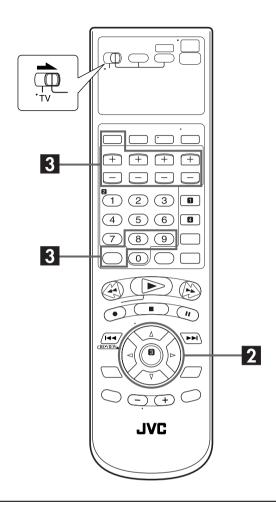
Press CANCEL to cancel a program. To change program settings, press the appropriate button: START +/-, STOP +/-, DATE +/-, CH +/-, DAILY (number key "8"), WEEKLY (number key "9") and/or SP/EP.

Return to the normal screen.

Press **PROG. CHECK** as many times as necessary. If there are still some programs remaining, go on to step **6**.

6 Return to the timer mode.

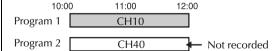
Press **TIMER**.



ATTENTION

If there is a conflict in the timer schedule and one program overlaps with another, only the parts shown below in gray will be recorded.

Pattern 1: The program with the lower program number will be recorded.

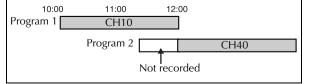


Pattern 2: The program starting earlier will be recorded.

10:00 11:00 12:00 Program 1 CH10

Program 2 CH40 Not recorded

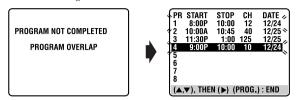
Pattern 3: The program starting earlier will be recorded, followed by the remaining portion of the other program.



When programs overlap each other

If "PROGRAM NOT COMPLETED PROGRAM OVERLAP" appears, you have another program overlapping the program you have just made.

The Program Check screen appears and conflicting programs will start blinking.



Example: Program 1 (you have just made) and Program 4 overlap each other.

Confirm the overlapping programs.

Overlapping programs blink on the TV screen.

Select the program to modify.

Press $\triangle \nabla$, then press **ENTER** or \triangleright .

• You can only select one of the overlapping programs.

NOTE:

If you do not mind this overlap, press **PROG.** to finish the timer program setting. The program with the lower program number will be recorded and the other one will not be recorded correctly. If no changes are made for approximately 1 minute, the unit will return to the normal screen.

Cancel or change program setting.

To cancel a program, press **CANCEL** when the Program screen you do not want is shown. "PROGRAM COMPLETED" appears on the TV screen for about 5 seconds, then the normal screen appears.

To change a program, press the appropriate button: START +/-, STOP +/-, DATE +/-, CH +/-, DAILY (number key "8"), WEEKLY (number key "9") and/or SP/EP when the Program screen on which you want to make changes is shown, then press ENTER. "PROGRAM COMPLETED" appears on the TV screen for about 5 seconds, then the normal screen appears.

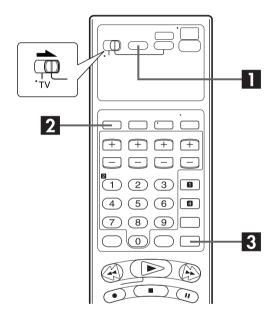
NOTE:

If the overlap is not yet solved, or another overlap occurs with the timer program setting after making the last correction on a program, the conflicting programs will be shown on the Program Check screen again. Repeat the above steps again until the overlap is solved.

Satellite Auto Recording

This function allows you to automatically record a satellite program which is timer-programmed on your external DBS receiver. Connect a DBS receiver to the unit's AUDIO/VIDEO input (F-1) connector and program the timer on the DBS receiver. The unit starts or stops recording by the signals input from the DBS receiver. After recording, the unit's power shuts off automatically.

• You can also connect the cable box if it has a timer.



ATTENTION

- Be sure not to turn on the DBS receiver before the program is executed; otherwise, the unit will start recording when the DBS receiver's power is turned on.
- If you have connected another appliance other than a DBS receiver to the AUDIO/VIDEO input (F-1) connector, be sure not to engage the Satellite Auto Recording mode; otherwise, the unit will start recording when the connected appliance's power is turned on.
- Satellite Auto Recording and timer-recording cannot be done at the same time.

Before performing the following steps:

- Make sure the DBS receiver is connected to the unit's AUDIO/VIDEO input (F-1) connector.
- Program the timer on the DBS receiver.
- Insert a cassette with the safety tab in place.
- Slide the **TV/VCR/DVD** switch to the right.

Select the VCR deck.

On the unit

Press **VCR/DVD** repeatedly so that the VCR indicator lights up.

On the Remote

Press VCR so that the VCR indicator lights up.

2 Set the tape speed.

Press **SP/EP**.

3 Engage the Satellite Auto Recording mode.

Press and hold **REC LINK** for about 2 seconds. The " \triangle " and " Θ " indicators light up and the unit turns off automatically.



- Operation on the DVD deck are not possible when the Automatic Satellite Program Recording mode is engaged, or timer recording is in progress.
- To disengage the Satellite Auto Recording mode, press REC LINK. The "△" indicator goes off.
- If the unit's power is off, it is not possible to engage the Satellite Auto Recording mode.
- In step **1**, if the "\$" indicator does not light but instead blinks quickly even though your DBS receiver's power is off, Satellite Auto Recording will not work properly with that DBS receiver*. If this is the case, perform "Express Timer Programming" (\$\subseteq\$ pg. 34) to timer-record a satellite program.
 - * Some DBS receivers output signals even if the power is off. Satellite Auto Recording is not possible with those DBS receivers.
- The "\(\Delta''\) indicator blinks while Satellite Auto Recording is in progress.
- For timer programming of the DBS receiver, refer to the instruction manual of the DBS receiver.
- Satellite Auto Recording is not possible if your DBS receiver does not have a timer.
- Pressing the unit's **POWER** (ψ/l) button while Satellite Auto Recording is in progress turns off the unit's power and disengages the Satellite Auto Recording mode.
- If there are more than one satellite programs you wish to record with Satellite Auto Recording, it is not possible to set different tape speeds for each program.
- Depending on the type of DBS receiver, the unit may not record a slight portion of the beginning of the program or may record slightly longer than the actual length of the program.
- If you engage the Satellite Auto Recording mode when the DBS receiver's power is on, the unit will not start Satellite Auto Recording even though the "Δ" and "Θ" indicators blink. When the DBS receiver shuts off once and is turned back on again, the unit starts recording.
- You can also record a program from your cable system in the same way if the system has a timer.

Basic Playback

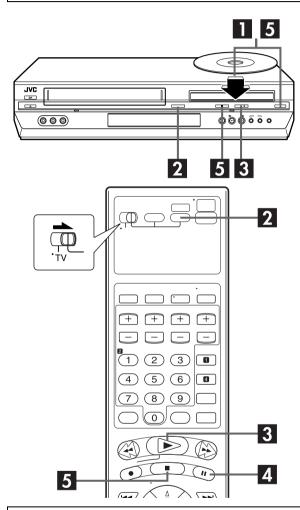








- Turn on the TV and select the VCR channel (or AV mode).
- Slide the TV/VCR/DVD switch to the right.



ATTENTION

- You can not use the DVD deck when the VCR deck is in the Automatic Satellite Recording standby and recording mode.
- You can use the DVD deck when the VCR deck is in the timer standby mode.

To play back a MP3/JPEG disc, see pages 60 – 65.



Load the disc.

- □ Press OPEN/CLOSE (♠) on the DVD deck to open the disc tray.
- The unit's power comes on automatically.
- 2 Place the disc in the disc tray.
- For details, refer to "Placing a Disc" (pg. 7).

- 3 Press OPEN/CLOSE (♠) on the DVD deck to close the disc tray.
- Pressing **PLAY** (►) also close the disc tray.
- Playback begins automatically if the auto-playback DVD disc is loaded. Although the VCR deck is selected, the DVD deck is selected automatically if the VCR deck is in stop mode.
- "no dc" appears on the front display panel when there is no disc present on the disc tray.

2 Select the DVD deck.

On the unit

Press **VCR/DVD** repeatedly so that the DVD indicator lights up.

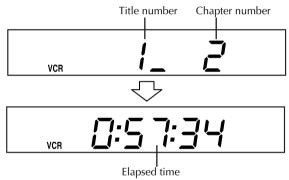
On the Remote

Press **DVD** so that the DVD indicator lights up.

Start playback.

Press **PLAY** (►).

Example: DVD VIDEO



- You can switch the display on the front display panel between the title number/chapter number and the elapsed time by pressing DISPLAY.
- It may take a few seconds to start playback.
- If you load a DVD disc whose region code does not match the DVD deck, "REGION CODE ERROR!" appears on the TV screen. For details, refer to "Region Number" (pg. 5).
- screen. For details, refer to "Region Number" (pg. 5).

 With Video CD discs with PBC control or some DVD discs, the menu display may appear on the TV screen after starting playback. In this case, select an item which you want to play back from the menu. Otherwise, the playback cannot go forward. Refer to "Locating a desired scene using the menu of the Video CD with PBC" (pg. 41) or "Locating a desired scene using the DVD menu" (pg. 41).

Pause playback.

Press PAUSE (II).

To resume normal playback, press PLAY (►).

Stop playback.

Press **STOP** (■). Press **OPEN/CLOSE** (♠) on the DVD deck to open the disc tray, then remove the disc.

 Pressing PLAY (>) resume playback from the position where you stop playback. For details, see "Resume Function" on page 43.

NOTE:

When you press **OPEN/CLOSE** (**△**) while the unit is turned off, the unit's power comes on and the disc tray opens

Playback Features

- Turn on the TV and select the VCR channel (or AV mode).
- Slide the TV/VCR/DVD switch to the right.

Playback Control (PBC) Function

— Locating a desired scene using the menu of the Video CD with PBC









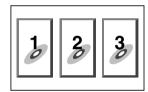
Some Video CD discs supports the PBC function. PBC is an abbreviation of "PlayBack Control". A Video CD disc recorded with PBC has its own menus, such as a list of the songs of the disc. You can locate a specific scene by using the menu.

1 Access the PBC menu.

In stop mode

Press **PLAY** (►).

 Depending on a disc, PBC menu may automatically appear on the TV screen by simply loading a disc on the unit. "Pbc" appears on the front display panel.



Example:





2 Start playback.

Press the appropriate number keys.

- The unit starts playback of the selected item.
- When "NEXT" or "PREVIOUS" appears on the TV screen: Pressing SKIP (►►I) advances to the next page. Pressing SKIP (I◄◄) returns to the previous page.
- You can return to the menu by pressing **RETURN**.
- The method of the operation is different depending on the disc.

NOTES:

- If you want to playback a PBC-compatible Video CD disc without activating the PBC function, start playback by using the number keys instead of the PLAY (►) button.
- To activate the PBC function when a PBC-compatible Video CD disc is being played back without the PBC function, press TOP MENU or MENU, or press STOP (■) (press twice when "RESUME" is set to "ON") then press PLAY (►).

Locating a desired scene using the DVD menu









DVD VIDEO discs may have two types of the menus; top menu and disc menu.

Top menu

DVD 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, or artist information. You can locate a desired scene by using the top menu displayed on the TV screen. Press **TOP MENU** to access the top menu.

Disc menu

DVD discs have the disc menu to select subtitle and audio language etc. for each title.

Press **MENU** to access the disc menu.

1 Access the DVD menu.

Press TOP MENU or MENU.



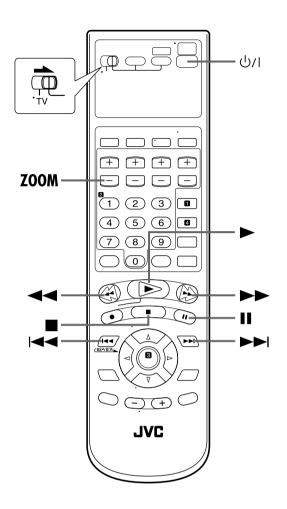
Example:

2 Start playback.

Press $\triangle \nabla \triangleleft \triangleright$ to select a desired item, then press **ENTER**.

 It may be possible to select the desired item using the number keys depending on the disc.

- When "O" appears on the TV screen in step 1, the disc does not have a top menu or disc menu.
- Top menu or disc menu may not appear depending on the discs even if it is recorded in DVD VIDEO format and finalized. In that case, press STOP (■) to display the total number of titles on a disc, then press the appropriate number keys to select the desired title.



Locating the start point of the item or skip the item







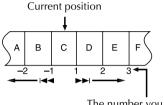


Press **SKIP** (I◀◀) or **SKIP** (▶►I) during playback.

Example:

To locate the beginning of item B from the current position, press **SKIP** (I◄◄) twice.

To locate the beginning of item D from the current position, press SKIP (►►I) once.



The number you press the button

 When the specified item is located, playback begins automatically.

NOTE:

When you press **SKIP** (I◀◀) or **SKIP** (▶►I), the counter display may appear instead of title number/chapter number depending on the discs.

Variable Speed Search









During playback, press **FF** ($\triangleright \triangleright$) for forward variable speed search, or **REW** ($\blacktriangleleft \blacktriangleleft$) for reverse variable speed search.

- The more times you press, the faster the playback picture
- To resume normal playback, press **PLAY** (►).

OR

During playback, press and hold **SKIP** (►►I) for forward search, or press and hold **SKIP** (I◄◄) for reverse search.

- While you press and hold the button, the image is played back at 5x speed.
- To resume normal playback, release **SKIP** (I◄◄) or **SKIP** (▶►I).

- Actual speed may be different from that displayed on the TV screen depending on the discs.
- Playback sound is not heard in any variable speed search mode

Still Picture/Frame-By-Frame Playback









1 Pause during playback.

Press PAUSE (II).

2 Activate frame-by-frame playback.

Press **PAUSE** (**II**) to advance a still picture.

To resume normal playback, press PLAY (►).

Slow Motion









During playback, press **PAUSE** (**II**), then press **REW** (**◄**) for reverse slow motion playback, or **FF** (**▶►**) for forward slow motion playback.

- Each press of FF (►►) changes the playback speed as follows: 1/32→1/16→1/8→1/4→1/2
- Each press of REW (◄◄) changes the playback speed as follows (only for DVD VIDEO discs): -1/32→-1/16→-1/8→-1/4→-1/2
- To resume normal playback, press PLAY (►).

NOTES:

- Reverse slow motion playback is possible only with the DVD VIDEO discs.
- This function may not works for some Video CD or SVCD.

Resume Function









It is possible to memorize the position where you stop playback and resume playback from that position.

• Be sure to set "RESUME" to "ON". (F pg. 78)

1 Memorize the resume point.

Press **STOP** (■) during playback.

• "rESuM" appears on the front display panel.



- The unit enters Resume Stop mode and memorize the position where you stop playback as the resume point.
- To clear the resume point:
 - Press **STOP** (■) in stop mode.
 - Press **POWER** (७/۱) to turn off the unit.
 - Eject the disc.
 - Set "RESUME" to "OFF". (127 pg. 78)

2 Resume playback.

Press **PLAY** (**)**. The unit start playback from the resume point.

NOTES:

- Resume Function does not work on the Audio CD. It also may not work depending on the discs.
- If you stop the playback of a disc for which an resume point has already been memorized, the memory will be updated with the new resume point.
- When the unit memorizes a resume point, it also remembers audio language, subtitle and angle settings.
- This function may not works for some Video CD or SVCD.

Zooming









Press **ZOOM** during playback or while paused.

- Each press of ZOOM changes the magnification in the following steps:
 - ZOOM OFF \rightarrow ZOOM 1 \rightarrow ZOOM 2 \rightarrow ZOOM 3 \rightarrow ZOOM 4 \rightarrow ZOOM 5 \rightarrow ZOOM 6 \rightarrow (Back to the beginning)
- When a 16:9 aspect picture source is displayed on a 4:3
 aspect TV (conventional TV) in Letter Box conversion mode,
 the margins in black shown on top and bottom of the TV
 screen will be cropped and both left and right side parts of the
 picture will also be cropped. You may not move up or down
 the zoomed-in scene depending on the zooming
 magnification.
- While zoomed, the picture may look coarse or distorted.

Current magnification



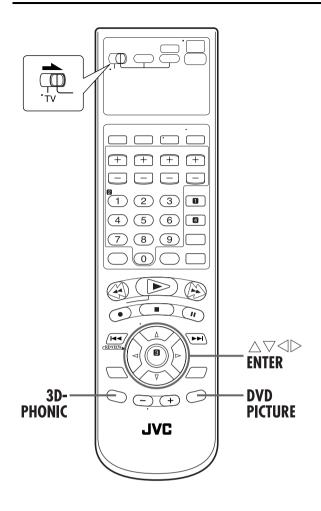


Zoomed-in area



Press $\triangle \nabla \triangleleft \triangleright$ to move the zoomed-in scene.





• Each time you press **3D-PHONIC**, the setting changes as follows:

OFF→ACTION→DRAMA→THEATER→(Back to the beginning)

OFF: No effect

ACTION: Suitable for action movies and sports

programs in which sounds dynamically

move.

DRAMA: Provides the natural and warm sound. You

can enjoy movies in a relaxed mood.

THEATER: You can enjoy sound effects like in a major

theater.

• The selection menu disappears automatically if you do not change the selection for 5 seconds.

NOTES:

- The 3D Phonic function works correctly only when playing back a DVD VIDEO disc recorded in the multi channel Digital format. With other sources, you cannot get any effect if you activate 3D Phonic function.
- When playing back a DVD VIDEO disc recorded with the Dolby Digital that does not contain the rear signal, you cannot get a correct 3D Phonic sound even if you activate 3D Phonic function.
- The 3D Phonic function does not affect the Digital bitstream signal from the DIGITAL AUDIO OUT connector.
- When 3D Phonic function is activated, Down Mix and D. Range Compression functions are disabled. (p. 77)

3D Phonic









3D Phonic function allows you to get a simulated surround effect from your stereo system. You can enjoy the vertical surround sound with your 2-channel stereo system.

1 Access the selection menu.

Press **3D-PHONIC** during playback.

 The current setting appears on the right bottom corner of the TV screen.

2 Select the mode.

Press **3D-PHONIC** repeatedly.



Selected mode

VFP function

Adjusting the picture quality









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

NOTE:

Before you start operation;

The VFP setting screen disappears if no operations are done for more than about 10 seconds. If the setting screen disappears before you finish, start from step 1 again.

Access the VFP setting menu.

Press **DVD PICTURE** during playback.

 The current setting appears on the TV screen.



2 Select the VFP mode.

Press $\triangleleft \triangleright$ repeatedly.

• Each time you press < ▷, the VFP mode changes as follows: NORMAL→CINEMA→USER 1→USER 2→(Back to the beginning)

NORMAL: Select this normally.

CINEMA: Suitable for movie.

USER 1/USER 2: You can adjust parameters that affect

picture appearance and store settings. Go

to step 3.

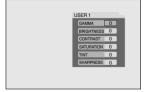
NOTE:

You cannot adjust the parameters of "NORMAL" and "CINEMA".

To adjust picture appearance manually

3 Access USER menu.

Press $\triangleleft \triangleright$ repeatedly to select "USER 1" or "USER 2".



4 Select the parameter.

Press $\triangle \nabla$ repeatedly to select a parameter you want to adjust, then press **ENTER**.

• Adjust gradually and confirm picture appearance results are as preferred.

GAMMA: Controls brightness of neutral tints while (-3 to +3)

maintaining brightness of dark and bright

portions.

BRIGHTNESS: Controls screen brightness.

(-8 to +8)

CONTRAST: Controls screen contrast.

(-7 to +7)

SATURATION: Controls screen color depth.

(-7 to +7)

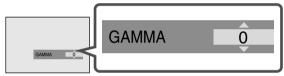
TINT: Controls screen tint.

(-7 to +7)

SHARPNESS: Controls screen sharpness.

(-8 to +8)

• VFP menu disappears and the following pop-up window appears on the TV screen.



• The selection menu disappears automatically if you do not change the selection for 10 seconds.

5 Adjust the parameter.

Press $\triangle \nabla$ repeatedly to change the setting, then press ENTER.

• The current VFP settings appear again.

6 Adjust the other parameters.

Repeat steps 4 and 5 to adjust other parameters.

To return to the normal screen Press **DVD PICTURE**.

To activate your setting

Press **DVD PICTURE**, then press
 □ repeatedly to select "USER 1" or "USER 2" that you have changed the parameters.

Using the onscreen bar

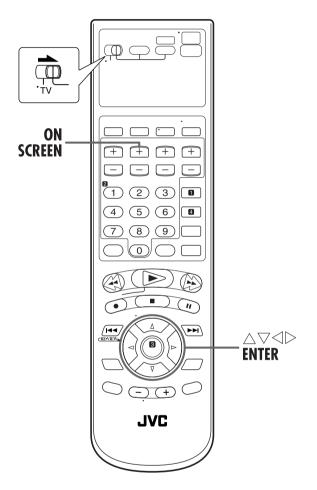








You can check disc information while the disc is loaded and you can use some functions using the on-screen bar. The on-screen bar allows you the various playback operations.



How to Access the on-screen bar

Press **ON SCREEN** twice whenever a disc is loaded.

Example: During DVD VIDEO playback

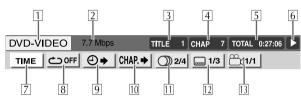


Example: During Video CD playback

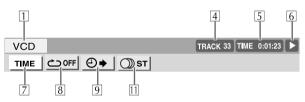


Contents of the on-screen bar during playback

DVD



Video CD



- 1 Disc type
- 2 Current transfer rate (Megabits per second)
- 3 Current title (for DVD)
- 4 Current chapter number (for DVD) or track number (for other type of discs)
- 5 Time information (pg. 47)
- 6 Playback status
 - : appears during playback.
 - / (: appears during fast forward/reverse.
 - / d: appears during playback in forward slow-motion/reverse slow-motion.
 - : appears when paused.
 - : appears when stopped.
- ☐ Select this to change time information. (See ⑤ in the illustration above) (☞ pg. 47)
- 8 Select this for Repeat Playback. (F pg. 48)
- 9 Select this for time search function. (pg. 50)
- 10 Select this for chapter search function. (12 pg. 51)
- 11 Select this to change audio language or channel. (CF pg. 54, 55)
- 12 Select this to change subtitle language. (F pg. 52)
- 13 Select this to change view angle. (F pg. 53)

Basic operation on the on-screen bar

Example: When selecting the Repeat mode of DVD

During playback



Access the on-screen bar.

Press **ON SCREEN** twice. The on-screen bar appears on the TV screen.

• The currently selected item is highlighted.



2

Select menu item.

Press $\lhd \rhd$ to move the highlight to $\ref{condition}$, then press **ENTER**. The pop-up window appears under the selected item.

• The current setting appears.



3

Select the option.

Press $\triangle \nabla$ to select the desired option, then press **ENTER**. • Each time you press $\triangle \nabla$, the options change.

To clear the on-screen bar Press **ON SCREEN**.

NOTE:

See the corresponding pages for details on each function.

Change the time information









You can change the time information in the on-screen bar on the TV screen and the front display panel of the unit.

During playback or while stopped

1

Access the on-screen bar.

Press **ON SCREEN** twice. The on-screen bar appears on the TV screen.

2

Select menu item.

Press $\lhd \rhd$ to move the highlight to TIME , then press **ENTER**.

 Each time you press ENTER, the time information changes as follows;

Example: During DVD playback

⇒ TIME 0:25:58 ⇒ REM 0:18:14 ⇒ TOTAL 1:25:58

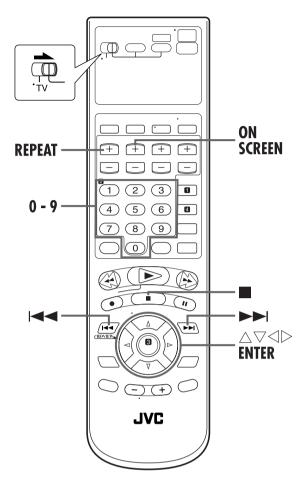
 \Rightarrow T.REM 0:45:41 \Rightarrow (Back to the beginning)

TIME: Elapsed playing time of current chapter/track
REM: Remaining time of current chapter/track
TOTAL: Elapsed time of title/disc
T. REM: Remaining time of title/disc

To clear the on-screen bar Press ON SCREEN.

NOTE:

While a DVD is stopped, "-:--:--" appears in the time information display.



Repeat Playback



You can repeat playback as you like according to the type of disc.

DVD VIDEO: during playback

Audio CD: during playback or in stop mode

Video CD/SVCD: in stop mode or during playback with PBC

deactivated

When using the on-screen bar

Access the on-screen bar.

Press **ON SCREEN** twice. The on-screen bar appears on the TV screen.

Select menu item.

Press $\triangleleft \triangleright$ to move the highlight to $\stackrel{\bullet}{\square}$, then press **ENTER**.

 The following pop-up window appears under the selected item.



Select the repeat mode.

Press $\triangle \nabla$ repeatedly to select the Repeat mode, then press ENTER.

The mode changes as follows:

DVD VIDEO

CHAPTER \rightarrow TITLE \rightarrow A-B \rightarrow OFF \rightarrow (Back to the beginning)

CHAPTER:	The current chapter is played back repeatedly.
TITLE:	The current title is played back repeatedly.
A-B:	The desired part is played back repeatedly. (F pg. 49)
OFF:	Each title and chapter is played back once.

Video CD/SVCD/CD

 $TRACK \rightarrow ALL \rightarrow A-B \rightarrow OFF \rightarrow (Back to the beginning)$

TRACK:	The current track is played back repeatedly.
ALL:	All tracks are played back repeatedly.
A-B:	The desired part is played back repeatedly. (FF pg. 49)
OFF:	Each track is played back once.

• "A-B" cannot be selected while stopped.

To clear the on-screen bar Press **ON SCREEN**.

To cancel Repeat Playback

Repeat from step ■, select "OFF" in step ③, then press ENTER.

When using the REPEAT button:

Access the repeat mode.

Press **REPEAT** during playback of the item you want to repeat.

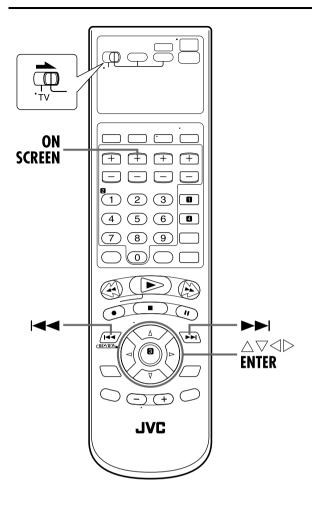
• Repeat mode is displayed on the TV.

2 Select the repeat mode.

Press **REPEAT** repeatedly to select the desired repeat mode.

- To stop Repeat Playback, press **STOP** (■).
- To cancel Repeat Playback, press **REPEAT** repeatedly until "OFF" appears on the TV screen.
- The pop-up window disappears if no operation is done for about 5 seconds.

- Repeat Playback is not possible with a Video CD and SVCD with PBC function.
- Repeat Playback may not work properly depending on the type of disc being used.
- You cannot select A-B Repeat Playback by pressing **REPEAT**.



A-B Repeat Playback









You can repeat the desired part.

Access the on-screen bar.

Press ON SCREEN twice. The on-screen bar appears on the TV screen.

Select menu item.

Press $\triangleleft \triangleright$ to move the highlight to \triangleright , then press ENTER.

• The following pop-up window appears under the selected item.



Select the repeat mode.

Press $\triangle \nabla$ repeatedly to select "A-B".

Select the start point.

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

• The following display appears in the on-screen bar.



Select the end point.

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

• A-B Repeat Playback starts. The selected part of the disc (between point A and B) is played repeatedly.

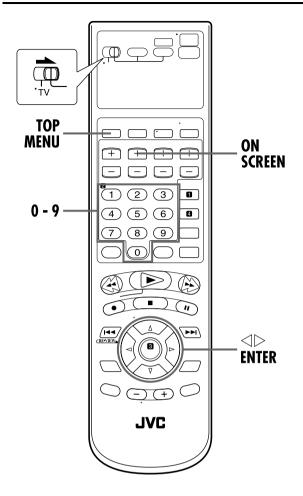
To cancel A-B Repeat Playback

Repeat from step **1**, select "OFF" in step **3**, then press ENTER.

• You can also cancel Repeat Playback by pressing **SKIP** (I◄◄) or **SKIP** (►►I).

To clear the on-screen bar Press ON SCREEN.

- A-B Repeat Playback may not work properly depending on the type of disc being used.
- The subtitles recorded around A-B point may not appear.
- The end of the item will be set as "B" point if the end of the item reached before you set the "B" point.
- When playing back a DVD, A-B Repeat Playback is possible only within the same title.
- "A-B" cannot be selected while stopped.



Time Search









You can play back a disc from the desired point by specifying the elapsed time from the beginning of the current title (for DVD VIDEO) or the disc (for Audio CD/Video CD) using the Time Search

When a PBC-compatible Video CD is played back, be sure to inactivate PBC function before you perform Time search by pressing the **number keys** instead of the **PLAY** (►) button when you start playback.

1

Access the on-screen bar.

Press **ON SCREEN** twice. The on-screen bar appears on the TV screen.

2

Select menu item.

Press $\triangleleft \triangleright$ to move the highlight to $\bigcirc \rightarrow$, then press **ENTER**.

 The following pop-up window appears under the selected item.



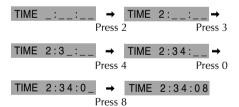
3

Select the time.

Press the **number keys** (0-9) to enter the time, then press **ENTER**.

Example:

To play back from a point 2 (hours): 34 (minutes): 08 (seconds) elapsed



If you have specified a wrong selection,

Press

□ repeatedly until the wrong number is erased, then press number keys to enter the correct numbers.

• The unit starts playback from the specified time.

To clear the on-screen bar Press ON SCREEN.

NOTES:

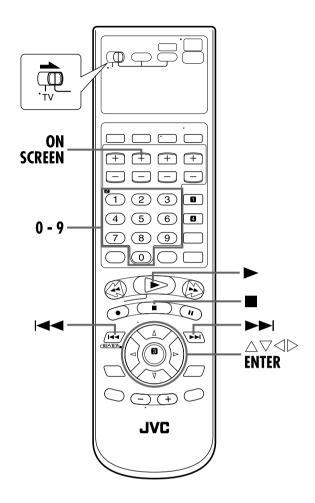
- When "\one{\Omega}" is displayed on the TV screen in step \(\mathbb{\omega}\), you have selected a point that excesses the recording time of the disc.
- Some DVD VIDEO discs do not contain time information, and it is no possible to use the Time Search function. In such a case, "O" is displayed on the TV screen as well.
- Time Search does not work while you play back the Video CD or SVCD with the PBC Function.

Reactivate the Playback Control (PBC) Function

You can reactivate the PBC function when you play back a PBC-compatible Video CD disc without PBC function.

Press TOP MENU during playback.

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Chapter Search









You can start playback the desired chapter using the on-screen bar.

Access the on-screen bar.

Press **ON SCREEN** twice. The on-screen bar appears on the TV screen.

Select menu item.

Press $\triangleleft \triangleright$ to move the highlight to CHAP. \Rightarrow , then press ENTER.

• The following pop-up window appears under the selected item.



Select the chapter.

Press the **number keys** (0-9) to enter the desired chapter number, then press **ENTER**.

• The unit starts playback from the selected chapter.

Examples:

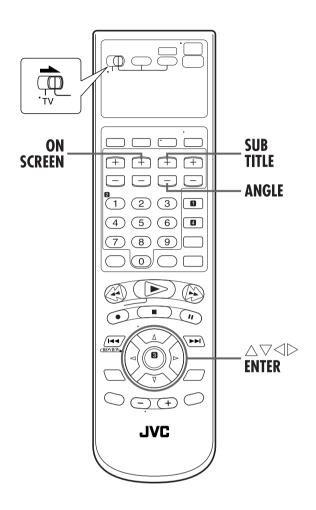
To select track 5, press the **number key "5"**. To select track 15, press the **number key "1"** and **"5"**. To select track 25, press **number key "2"** and **"5"**.

• It is not possible to use the number key "+10" and "-10".

If you have specified a wrong selection Enter the appropriate number keys again.

To clear the on-screen bar Press **ON SCREEN**.

- When "O" is displayed on the TV screen in step 1, the chapter you have selected is not contained in the disc, or chapter search does not work on the disc.
- Chapter Search starts automatically when you select the desired chapter in step depending on the disc.



Subtitle Selection









You can select subtitle language.

During playback

When using the on-screen bar



Access the on-screen bar.

Press **ON SCREEN** twice. The on-screen bar appears on the TV screen.

2 Select menu item.

Press $\triangleleft \triangleright$ to move the highlight to $\[\]$, then press **ENTER**.

 The following pop-up window appears under the selected item.

Example (DVD): "ENGLISH" is selected out of 3 subtitle languages recorded.



Select the subtitle language.

Press $\triangle \nabla$ repeatedly to select the desired subtitle language, then press **ENTER**.

• Each time you press the button, the subtitle language changes.

To clear the on-screen bar Press ON SCREEN.

NOTES:

- It is impossible to select "OFF" when using the on-screen bar.
 To select "OFF", press ON SCREEN to clear the on-screen bar, then press SUB TITLE repeatedly until "OFF" is selected.
- For DVD VIDEO
 Some subtitle languages are abbreviated in the pop-up window. See "Language Code List" (pg. 21).
- For SVCD
 SVCD can contain up to four subtitles. Pressing SUB TITLE changes the subtitles regardless of whether the subtitles are recorded or not. (Subtitles will not change if no subtitle is recorded.)
- When "O" appears on the TV screen in step **3**, subtitle language is not recorded.

When using the SUB TITLE button:



Access the menu.

Press SUB TITLE.

• The following pop-up window appears on the TV screen.

Example (DVD): "ENGLISH" is selected out of 3 subtitle languages recorded.



Select the subtitle language.

Press $\triangle \nabla$ repeatedly to select the desired subtitle language. To select "OFF", press **SUB TITLE** repeatedly until "OFF" is selected.

- Each time you press the button, the subtitle language changes.
- The pop-up window disappears if no operation is done for about 5 seconds.

NOTE:

When " \heartsuit " appears on the TV screen in step $\mathbf{2}$, subtitle language is not recorded.

Angle Selection









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.

If the disc contains "multi-angle" parts, " $\stackrel{\sim}{\cong}_1$ " appears on the TV screen at the beginning of the "multi-angle" part when "ON SCREEN GUIDE" is set to "ON".

During playback

When using the on-screen bar



Access the on-screen bar.

Press **ON SCREEN** twice. The on-screen bar appears on the TV screen.

2

Select menu item.

Press $\triangleleft \triangleright$ to move the highlight to $\stackrel{\text{deg}}{=}$, then press **ENTER**.

 The following pop-up window appears under the selected item.

Example: The first view angle is selected out of 3 view angles recorded.



3

Select the view angle.

Press $\triangle \nabla$ repeatedly to select the desired view angle, then press **ENTER**.

 Each time you press the button, the angle of the scene changes.

To clear the on-screen bar Press **ON SCREEN**.

NOTE:

When " \bigcirc " appears on the TV screen in step \blacksquare , the current scene is not recorded from multiple angles.

When using the ANGLE button:



Access the menu.

Press ANGLE.

• The following pop-up window appears on the TV screen.

Example: The first view angle is selected out of 3 view angles recorded.



2

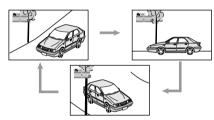
Select the view angle.

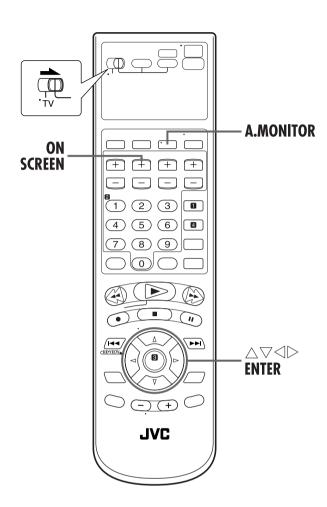
Press $\triangle \nabla$ or **ANGLE** repeatedly to select the desired view angle.

- Each time you press the button, the angle of the scene changes.
- The pop-up window disappears if no operation is done for about 5 seconds.

Example:

 $1/3 \rightarrow 2/3 \rightarrow 3/3 \rightarrow$ (Back to the beginning)





Audio Language Selection









Some DVD discs contain the multiple audio.
You can select the audio language of movies (DVD VIDEO).

During playback

When using the on-screen bar



Access the on-screen bar.

Press **ON SCREEN** twice. The on-screen bar appears on the TV screen.

Select menu item.

Press $\triangleleft \triangleright$ to move the highlight to \bigcirc , then press **ENTER**.

 The following pop-up window appears under the selected item.

Example: "ENGLISH" is selected out of 4 audio languages recorded.



Select the audio language.

Press $\triangle \nabla$ repeatedly to select the desired audio language, then press **ENTER**.

• Each time you press the button, the audio language changes.

To clear the on-screen bar Press **ON SCREEN**.

NOTES:

- Some audio languages are abbreviated in the pop-up window. See "Language Code List" (F. pg. 21)
- If "O" appears on the TV, the current scene does not contain plural audio languages.

When using the A.MONITOR button:

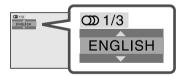


Access the menu.

Press A.MONITOR.

• The following pop-up window appears on the TV screen.

Example: "ENGLISH" is selected out of 3 audio languages recorded.



Select the audio language.

Press $\triangle \nabla$ or **A.MONITOR** repeatedly to select the desired audio language.

- Each time you press the button, the audio language changes.
- The pop-up window disappears if no operation is done for about 5 seconds.

NOTE:

Some audio languages are abbreviated in the pop-up window. See "Language Code List" (\square pg. 21).

Audio Channel Selection









When you play certain karaoke (Video CD/SVCD), you can enjoy karaoke by selecting the audio channel to play.

- The sound of each audio channel depends on the contents of the disc
- During playback

When using the on-screen bar



Access the on-screen bar.

Press **ON SCREEN** twice. The on-screen bar appears on the TV screen.

2

Select menu item.

Press $\triangleleft \triangleright$ to move the highlight to \bigcirc , then press **ENTER**.

 The following pop-up window appears under the selected item.

Example: "ST" (stereo) is selected.



3

Select the audio channel.

Press $\triangle \nabla$ repeatedly to select the desired audio channel, then press **ENTER**.

• Each time you press the button, the audio channel changes.

To clear the on-screen bar Press ON SCREEN.

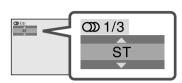
When using the A.MONITOR button:



Access the menu.

Press A.MONITOR.

The following pop-up window appears on the TV screen.
 Example: "ST" (stereo) is selected out of 3 audio channels recorded.



2

Select the audio channel.

Press $\triangle \nabla$ or **A.MONITOR** repeatedly to select the desired audio channel.

- Each time you press the button, the audio channel changes.
- The pop-up window disappears if no operation is done for about 5 seconds.

For Video CD

 $ST \rightarrow L \rightarrow R \rightarrow (Back to the beginning)$

ST:	To listen to normal stereo playback.
L:	To listen to L (left) audio channel only.
R:	To listen to R (right) audio channel only.

For SVCD

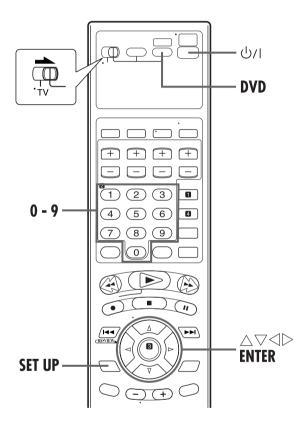
ST $1 \rightarrow$ ST $2 \rightarrow$ L $1 \rightarrow$ R $1 \rightarrow$ L $2 \rightarrow$ R $2 \rightarrow$ (Back to the beginning)

ST 1/ST 2:	To listen to normal stereo playback of ST 1 or ST 2 channel.
L 1/L 2:	To listen to the L (left) 1 or 2 audio channel.
R 1/R 2:	To listen to the R (right) 1 or 2 audio channel.

Parental Lock

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.

- Turn on the TV and select the VCR channel (or AV mode).
- Slide the **TV/VCR/DVD** switch to the right.



To set Parental Lock for the first time



Turn on the unit.

Press **POWER** (也/1).

2

Select the DVD deck.

On the unit

Press **VCR/DVD** repeatedly so that the DVD indicator lights up.

On the Remote

Press **DVD** so that the DVD indicator lights up.

3 Access the DVD Set Up menu.

- 1 Press **SET UP**.
- 2 Press < > to select " → OTHERS".

4

Access the "PARENTAL LOCK" menu.

Press $\triangle \nabla$ repeatedly to move the highlight to "PARENTAL LOCK", then press **ENTER**.

- The "PARENTAL LOCK" submenu appears on the TV
 screen
- It is possible to access the "PARENTAL LOCK" menu only in the stop mode when a DVD disc is loaded on the unit.



Access the country code menu.

Press **ENTER**, then press $\triangle \nabla$ repeatedly to move the highlight to "COUNTRY CODE", then press **ENTER**.



6 Select the country code.

Press $\triangle \nabla$ repeatedly to move the highlight to select the country code, then press **ENTER**.

- See "Country/Area Code List for Parental Lock" (pg. 58).
- The highlight moves to "SET LEVEL".



Select the Level.

Press **ENTER**, then press $\triangle \nabla$ repeatedly to move the highlight to select the level of restriction, then press **ENTER**.

- The highlight moves to "PASSWORD".
- The smaller the value of level is, the more restrictive the Parental Lock level is.
- Select "NONE" to cancel this function.



Enter the password.

Press the number keys to enter a four-digit number as your password, then press ENTER.

• The highlight moves to "EXIT".



Return to the OTHERS menu screen.

Press ENTER.

• The " OTHERS" menu resumes.

To return to the normal screen Press SET UP.

NOTE:

Remember your password, or make a note of it.

To change the settings

You can change the Parental lock settings later.

Access the Parental Lock screen.

- 1 Press **SET UP**.
- Press < > to select " → OTHERS".
- \square Press $\triangle \nabla$ repeatedly to move the highlight to "PARENTAL LOCK", then press **ENTER**.
- The "PARENTAL LOCK" sub-menu appears on the TV screen.
- You can only move the highlight to "PASSWORD" or to "EXIT" before you enter your password.

Enter the password.

Press the appropriate **number** keys to enter 4-digit password, then press **ENTER**. If you enter the wrong password, "WRONG! RETRY..." appears at the bottom of the TV screen. Enter the correct password.



Change the country code.

Press $\triangle \nabla$ to select the country code, then press **ENTER**.

- See "Country/Area Code List for Parental Lock" (pg. 58).
- When you change the country code, you must select the level.

Change the level.

Press $\triangle \nabla$ to select the desired level, then press **ENTER**.

5 Enter your new password.

Press the appropriate **number keys** to enter 4-digit password, then press ENTER.

- The password entered in the this 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 level, do not forget to enter the password after changing the country code and/or the level. Otherwise, the new country code and/ or the level will not become effective.

Return to the normal screen.

Press SET UP.

NOTES:

- When you enter the wrong password more than 3 times in step 2 on the left column, the highlight moves to "EXIT" automatically and $\triangle \nabla$ does not work.
- If you forget your password, enter "8888" in step 2.

To temporarily release the 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 back it, the following Parental Lock screen appears on the TV screen, asking you whether you want the Parental Lock to be temporarily released or not.

Access the password screen.

- Place the disc in the disc
- If the disc rated higher than the selected level, the following screen appears.
- Press $\triangle \nabla$ to move the highlight to "TEMPORARY RELEASE", then press ENTER.
- If you select "NOT RELEASE", you cannot play back that disc.



Enter the password.

Press the appropriate **number keys** to enter 4-digit

password, then press **ENTER**.

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

- When you enter the wrong password more than 3 times in step 2 above, the highlight moves to "NOT RELEASE" automatically and $\triangle \nabla$ do not work. In such a case, press **ENTER**, then press **OPEN/CLOSE** (\triangle) to remove the disc.
- If you forget your password, enter "8888" in step 2.

Country/Area Code List for Parental Lock

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

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

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

SA	Saudi Arabia
SB	Solomon Islands
SC	Seychelles
SD	Sudan
SE	Sweden
SG	Singapore
SH	Saint Helena
SI	Slovenia
SJ	Svalbard and Jan Mayen
SK	Slovakia
SL	Sierra Leone
SM	San Marino
SN	Senegal
SO	Somalia
SR	Suriname
ST	Sao Tome and Principe
SV	El Salvador
SY	Syrian Arab Republic
SZ	Swaziland
TC	Turks and Caicos Islands
TD	Chad
TF	French Southern Territories
TG	Togo
TH	Thailand
Tj	Tajikistan
TK	Tokelau
TM	Turkmenistan
TN	Tunisia
TO	Tonga
TP	East Timor
TR	Turkey
TT	Trinidad and Tobago
TV	Tuvalu
TW	Taiwan
TZ	Tanzania, United Republic of
UA	Ukraine
UG	Uganda
UM	United States Minor Outlying Islands
US	United States United States
UY	Uruguay
UZ	Uzbekistan
VA	Vatican City State (Holy See)
VC	Saint Vincent and the Grenadines
VE	Venezuela
VG	Virgin Islands (British)
VI	Virgin Islands (U.S.)
VN	Viet Nam
VU	Vanuatu
WF	Wallis and Futuna Islands
WS	Samoa
YE	Yemen
YT	Mayotte
YU	Yugoslavia
ZA	South Africa
ZM	Zambia
ZR	Zaire
ZW	Zimbabwe

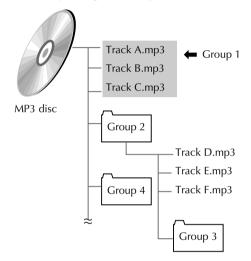
About MP3 Disc

This unit can playback CD discs recorded by the MP3 format (we refer to those discs as MP3 discs in this manual). Operations for MP3 discs are similar to those for Audio CD discs, though there are some restrictions and differences.

What is MP3?

MP3 is the abbreviation of "MPEG1 Audio Layer 3". MPEG Audio is a compression specification that compresses the audio portion only. This image compression method is used in DVD or Video CD, etc. The audio data has been compressed into about 1/10

On an MP3 disc, each material (song) is recorded on each Track (file), which usually belongs to a Group (folder).



This unit can recognize up to 99 Groups and up to 150 Tracks per Group.

If a disc includes more than the Tracks above limit, the unit stops detecting Tracks when the number of detected Tracks reaches the limit and ignores the subsequent Tracks. The unit also ignores any non-MP3 file in the disc.

NOTES for making a private MP3 disc using a CD-R/CD-RW disc:

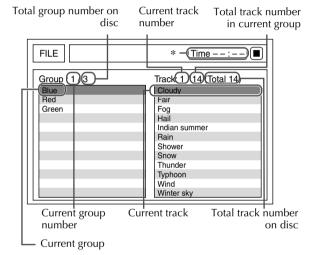
- Select "ISO9660" as the disc format.
- Finalize the disc.

NOTES:

- Because of the disc characteristics or recording condition, some discs may not be played back or it takes time to start playback.
- The unit does not support "packet writing" discs.
- If there are any Tracks (files) which are stored on a disc directly and do not belong to any Group (directory), the unit recognized them as belonging to an independent Group.
- The unit plays back Groups/Tracks on an MP3 disc in the alphabetical order.
- For example, if there are three title Groups [one], [two] and [three] on a disc, the playback order is [one], [three] then [two]. Tracks in a Group are played back in the same way.
- Therefore, an MP3 disc on the market may be played back in the different order from the order printed on its sleeve.

MP3 control display

The MP3 control display appears on the TV screen and playback starts when an MP3 disc is loaded.



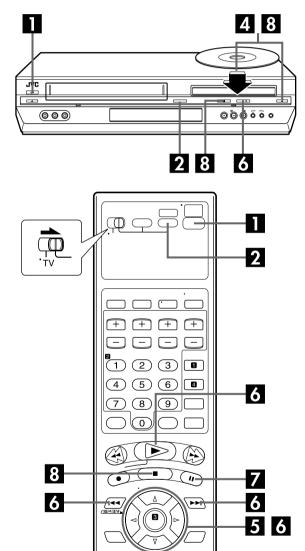
* Elapsed playing time of current track Elapsed playing time is only shown during playback.

MP3 Playback



You can search and play back desired groups and tracks using the MP3 control display.

- Turn on the TV and select the VCR channel (or AV mode).
- Slide the TV/VCR/DVD switch to the right.



NOTES:

- PLAY (►), STOP (■), PAUSE (■), SKIP (I◄) and SKIP (►►) buttons function the same as with Audio CD discs, however,
 REW (◄◄) and FF (►►) buttons do not function for MP3 playback.
- Resume playback also does not function for MP3 playback.

Using the MP3 control display



Turn on the unit.

Press **POWER** (心/l).

2

Select the DVD deck.

On the unit

Press **VCR/DVD** repeatedly so that the DVD indicator lights up.

On the Remote

Press **DVD** so that the DVD indicator lights up.

Select the mode.

Be sure to set "FILE TYPE" to "AUDIO" before loading a disc. (\mathbb{Z}^{p} pg. 76)

Load the disc.

- Press OPEN/CLOSE (♠) on the DVD deck to open the disc tray.
- 2 Place the MP3 disc in the disc tray.
- For details, refer to "Placing a Disc" (F pg. 7).
- 3 Press OPEN/CLOSE (♠) on the DVD deck to close the disc tray.
- The MP3 control display appears on the TV screen when an MP3 disc is loaded. (F) pg. 60)
- Select the group.

Press $\triangle \nabla$ to select the desired group, then press \triangleright .

6 Start playback.

Press $\triangle \nabla$ to select the desired track, then press **ENTER** or **PLAY** (\blacktriangleright)

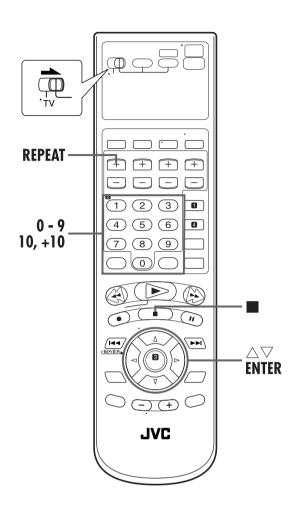
- You can skip a track across a group. Press SKIP (>>I) to skip to the first track of the next group when the last track of the current group is selected.
- Pause playback.

Press PAUSE (II).

• To resume normal playback, press **PLAY** (►).

8 Stop playback.

Press **STOP** (■). Press **OPEN/CLOSE** (♠) on the DVD deck to open the disc tray, then remove the disc.



Repeat Playback

You can repeat playback of the current group, track or all groups.

• While MP3 control display is on the TV:



Select the mode.

Press **REPEAT** to select the desired repeat mode.

 Each time you press REPEAT, the mode changes as follows: TRACK→GROUP→ALL→OFF (No indication)→(Back to the beginning)

TRACK: The current track is played back

repeatedly.

GROUP: All tracks of the current group are

played back repeatedly.

ALL: All tracks are played back

repeatedly.

OFF (no indication): Each track is played back once.

• To stop Repeat Playback, press **STOP** (■).

- To cancel Repeat Playback, press **REPEAT** repeatedly until the repeat mode display disappears on the TV screen.
- You can also quit Repeat Playback in the following cases:
 - Press **OPEN/CLOSE** (♠) to open the disc tray.
 - Turn off the unit.

To return to the MP3 control display Press **STOP** (■).

Group/track selection

To start playback by specifying the group/track number

- The Press the **number keys** (0-10, +10) to enter the group number.
- 2 Press the **number keys** (0-10, +10) to enter the track number.
- The entered number appears in the track number indication and playback starts from the track you have specified.

Example:

To select 3: Press 3.

To select 14: Press +10, then 4. To select 20: Press +10, then 10.

Or press +10 twice, then 0. Press +10, +10, then 4.

To select 24: Press +10, +10, then 4.
To select 110: Press +10 ten times, then 10.

To select 150: Press +10 fourteen times, then press 10 once.

NOTE:

You cannot select 150 even if you press +10 fifteen times, then press 0 once.

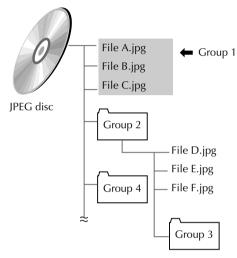
About JPEG Disc

This unit can playback CD discs recorded by the JPEG format (we refer to those discs as JPEG discs in this manual). Operations for JPEG discs are similar to those for Audio CD discs, though there are some restrictions and differences.

What is IPEG?

JPEG is the abbreviation of "Joint Photographic Expert Group". IPEG is a still-picture data compression system.

On a JPEG disc, each still picture is recorded as a file, which usually belongs to a Group (folder).



This unit can recognize up to 99 Groups and up to 150 Files per Group.

If a disc includes more than the Files above limit, the unit stops detecting Files when the number of detected Files reaches the limit and ignores the subsequent Files. The unit also ignores any non-JPEG file in the disc.

NOTES for making a private JPEG disc using a CD-R/CD-RW disc:

- Select "ISO9660" as the disc format.
- Finalize the disc.

NOTES:

- We recommend to record a file at 640 x 480 resolution. (If a file has been recorded at a resolution of more than 640 x 480, it will take a longer time to be displayed.)
- This unit supports the JPEG files whose resolution is 32 to 8192 pixel in width and 32 to 7680 pixel in height.
- This unit can only play back baseline JPEG files*. Progressive JPEG files* or lossless JPEG files* cannot be played back.
 - * Baseline JPEG format: Used for digital cameras, web, etc. Progressive JPEG format: Used for web.
- Lossless JPEG format: An old type and rarely used now.

 Some files on a JPEG disc may be played back distortedly.
- Because of the disc characteristics or recording condition, some discs may not be played back or it takes time to start playback.
- The unit does not support "packet writing" discs.
- If there are any Files which are stored on a disc directly and do not belong to any Group (directory), the unit recognized them as belonging to an independent Group.
- The unit plays back Groups/Files on an JPEG disc in the alphabetical order.
- For example, if there are three title Groups [one], [two] and [three] on a disc, the playback order is [one], [three] then [two]. Files in a Group are played back in the same way.
- Therefore, an JPEG disc on the market may be played back in the different order from the order printed on its sleeve.

JPEG control display

The JPEG control display appears on the TV screen and playback starts when a JPEG disc is loaded.

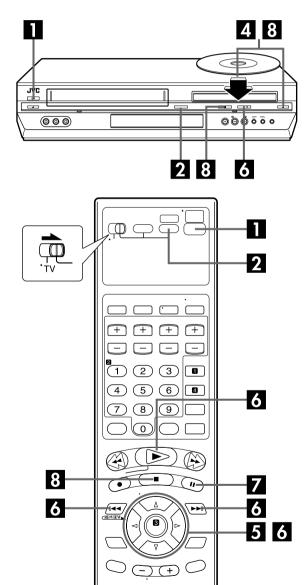
Total group number on Current file Total file number in number current group FILE Group (1)(3 File. 1 (14) (Total 41) Mountair Bonito Sky Butterfly fish Dolphin Garden eel Manta ray Seal Swordfish Thunder Whale Whale shar Total file number on Current file Current group number disc Current group

JPEG Playback



You can search and play back desired groups and files using the JPEG control display.

- Turn on the TV and select the VCR channel (or AV mode).
- Slide the TV/VCR/DVD switch to the right.



NOTES:

- PLAY (►), STOP (■), PAUSE (■), SKIP (I◄) and SKIP (►►) buttons function the same as with Audio CD discs, however, REW (◄◄) and FF (►►) buttons do not function for JPEG playback.
- Resume playback also does not function for JPEG playback.

Using the JPEG control display



Turn on the unit.

Press **POWER** (也/1).

2

Select the DVD deck.

On the unit

Press **VCR/DVD** repeatedly so that the DVD indicator lights up.

On the Remote

Press **DVD** so that the DVD indicator lights up.

Select the mode.

Be sure to set "FILE TYPE" to "STILL PICTURE" before loading a disc. (Pp. 76)

Load the disc.

- Press OPEN/CLOSE (♠) on the DVD deck to open the disc tray.
- 2 Place the JPEG disc in the disc tray.
- For details, refer to "Placing a Disc" (F pg. 7).
- 3 Press OPEN/CLOSE (♠) on the DVD deck to close the disc tray.
- The JPEG control display appears on the TV screen when a JPEG disc is loaded. (□ pg. 63)

Select the group.

Press $\triangle \nabla$ to select the desired group, then press \triangleright .

6 Start playback.

Press $\triangle \nabla$ to select the desired file, then press **ENTER** or **PLAY** (\blacktriangleright).

 You can skip a file across a group. Press SKIP (►►) to skip to the first file of the next group when the last file of the current group is selected.

The slide-show playback starts from the selected file.

- After selecting a file, press PLAY (>) to starts slide-show
 playback from the selected file, or press ENTER to show the
 selected file.
- The playback interval time of slide-show depends on the file size.

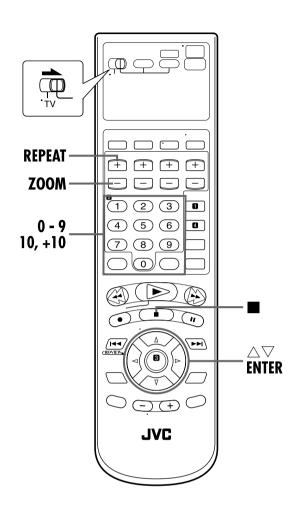
Pause playback.

Press PAUSE (II).

• To resume normal playback, press **PLAY** (►).

Stop playback.

Press **STOP** (■). Press **OPEN/CLOSE** (♠) on the DVD deck to open the disc tray, then remove the disc.



Group/file selection

To start slide-show playback by specifying the group/file number

- The Press the **number keys** (0-10, +10) to enter the group number.
- 2 Press the **number keys** (0-10, +10) to enter the file number.
- The slide-show playback starts from the file you have specified.
- To display only the selected file, then press **ENTER**. To start slide-show playback from that file, press **ENTER** again.

Example:

To select 3: Press 3.

To select 14: Press +10, then 4. To select 20: Press +10, then 10.

Or press +10 twice, then 0.
To select 24: Press +10, +10, then 4.
To select 110: Press +10 ten times, then 10.

To select 150: Press +10 fourteen times, then press 10 once.

NOTE:

You cannot select 150 even if you press +10 fifteen times, then press 0 once.

Repeat Playback

You can repeat playback of the current group, file or all groups.

• While JPEG control display is on the TV:



Select the mode.

Press **REPEAT** to select the desired repeat mode.

Each time you press REPEAT, the mode changes as follows:
 GROUP→ALL→OFF (No indication)→(Back to the beginning)

GROUP: All files of the current group are played back repeatedly.

ALL: All files are played back

repeatedly.

OFF (No indication): Each file is played back once.

2

Start playback.

Press **PLAY** (►).

- To stop Repeat Playback, press **STOP** (■).
- To cancel Repeat Playback, press **REPEAT** repeatedly until the repeat mode display disappears on the TV screen.
- You can also guit Repeat Playback in the following cases:
- Press OPEN/CLOSE (♠) to open the disc tray.
- Turn off the unit.

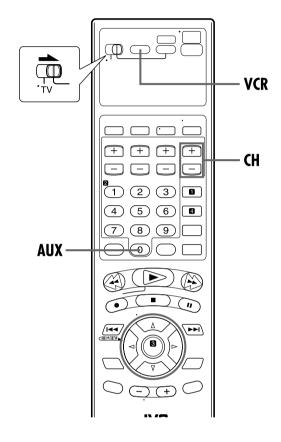
To return to the JPEG control display Press **STOP** (**III**).

Zooming

Press **ZOOM** during playback.

- When you want to zoom the picture during slide-show playback, first press PAUSE (II), then press ZOOM.
- Each press of ZOOM changes the magnification in the following steps:
 ZOOM OFF → ZOOM 1 → ZOOM 2 → (Back to the
- beginning)To resume normal playback, press ENTER.

Edit From A Camcorder



Recorder 0000000 To REMOTE **AUDIO** input **PAUSE VIDEO** connector input Audio/video cable (not supplied) Mini-plug cable To Audio/VIDEO (not provided) Output (JVC camcorder connectors only) ďŒ 4010 Camcorder To Edit **Player**

You can use a camcorder as the source player and your unit as the recording deck.

Slide the TV/VCR/DVD switch to the right.

1

Make connections.

Connect the camcorder's AUDIO OUT and VIDEO OUT connectors to the unit's front panel AUDIO and VIDEO input connectors.

- When using a monaural camcorder, connect its AUDIO OUT connector to the AUDIO L input connector on your unit.
- When a Master Edit Control equipped JVC camcorder is used, the camcorder is capable of controlling the unit. Refer to the camcorder's instruction manual for operating procedure.

2

Select the VCR deck.

On the unit

Press **VCR/DVD** repeatedly so that the VCR indicator lights up.

On the Remote

Press VCR so that the VCR indicator lights up.

Set the unit's input mode.

Press AUX (number key "0") and/or CH to select "F-1".

4. Set the edit mode.

See "PICTURE CONTROL" on page 73.

Engage the Record Pause mode.

Use **PLAY** (►), **REW** (◄), or **FF** (►) to locate the point where you start recording, then press and hold **PAUSE** (■) and press **REC** (●) to engage the Record Pause mode.

6 Start the camcorder.

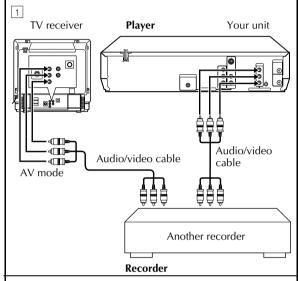
Engage the Play mode of the camcorder.

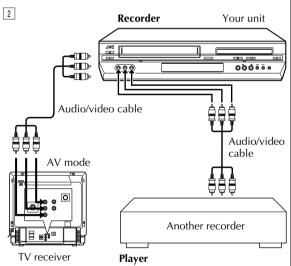
Start the unit.

Press **PLAY** (►) to engage the Record mode of the unit.

- All necessary cables can be obtained from your dealer.

Edit To Or From Another Video Recorder





You can use your unit as the source player or as the recording deck.

Slide the TV/VCR/DVD switch to the right.

1

Make connections.

- When using your unit as the source player ...
 ... connect its AUDIO/VIDEO OUTPUT connectors to the audio/video input connectors on another recorder.
 When using your unit as the recording deck ...
- ... connect its AUDIO/VIDEO input connectors to the audio/video output connectors on another recorder.

2 Sele

Select the VCR deck.

On the unit

Press **VCR/DVD** repeatedly so that the VCR indicator lights up.

On the Remote

Press VCR so that the VCR indicator lights up.

3

Set the input mode of recording deck.

With this video unit, press AUX (number key "0") and/or CH to select "F-1".

- When using another recorder as the recording deck, refer to its instruction manual.
- Set the edit mode.

See "PICTURE CONTROL" on page 73.

Engage the Record Pause mode of the recording deck.

Locate the point where you start recording, then engage the Record Pause mode.

6 Start the source player.

Engage the Play mode of the source player.

Start the recording deck.

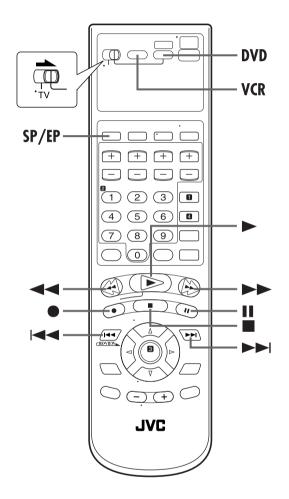
Engage the Record mode of the recording deck.

- All necessary cables can be obtained from your dealer.
- When you select "EDIT" to dub tapes in step 4, be sure to select "NORM" after you finish dubbing the tapes.
- When you use this unit as the source player for editing, be sure to set "SUPERIMPOSE" to "OFF" before starting. (F) pg. 73)

Dubbing

(from DVD to VCR)

- Turn on the TV and select the VCR channel (or AV mode).
- Slide the TV/VCR/DVD switch to the right.



You can dub selected scenes from the DVD disc to a cassette, starting and stopping wherever you wish.

However, it is not possible to dub the copy-protected disc. In such case, "ERROR" appears on the front display panel.

Load a cassette and place a disc.

For the VCR deck

Insert a cassette with the record safety tab intact.

For the DVD deck

- Press OPEN/CLOSE (♠) on the DVD deck to open the disc tray.
- 2 Place the disc in the disc tray.
- 3 Press OPEN/CLOSE (♠) on the DVD deck to close the disc tray.

2

Prepare the VCR deck for dubbing.

- 1 Press VCR.
- 2 Press **SP/EP** to select recording speed.
- 3 Search for the point where you want to start dubbing by pressing PLAY (▶), FF (▶▶) or REW (◄◄) then press STOP (■).

3

Prepare the DVD deck for dubbing.

- 1 Press **DVD**.
- 2 Search for the point where you want to start dubbing by pressing PLAY (►), FF (►►), REW (◄◄), ►►I or
- Press PAUSE (II) to pause playback a little before the start point.

4

Start dubbing.

Press and hold **REC** (ullet), then press **PLAY** (\blacktriangleright) on the Remote.

"dub" lights on the front display panel.



5

End dubbing.

Press **STOP** (**II**).

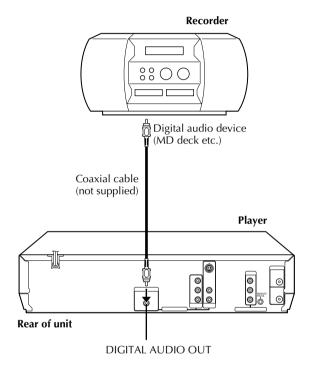
 Be sure to press STOP (■) while the VCR indicator lights up on the unit.

- You can dub from DVD to VCR regardless of the scan mode setting. (Pg. 78) However, the progressive signals will be converted to the interlace signals when dubbing.
- Set "ON SCREEN GUIDE" to "OFF" (pg. 78) if you do not want to record the on-screen display for DVD discs during dubbing.
- There may be a discrepancy of several seconds between where you intend editing to start, and where it actually starts.
- The superimposed indication during the operation or dubbing is not recorded.
- Set "PICTURE CONTROL" to "EDIT". (□ pg. 73)

EN **69**

Digital Audio Dubbing

- Turn on the TV and select the VCR channel (or AV mode).
- Slide the TV/VCR/DVD switch to the right.



You can dub selected audio from the DVD or Audio CD disc to a MD etc.

However, it is not possible to dub the copy-protected disc.

Example: Dubbing to a MD

1

Make connections.

Connect the coaxial cable between the unit and the digital audio device.

2

Place a disc and load a MD.

For the DVD deck

- □ Press OPEN/CLOSE (♠) on the DVD deck to open the disc tray.
- 2 Place the disc in the disc tray.
- 3 Press OPEN/CLOSE (♠) on the DVD deck to close the disc tray.

For the digital audio device Insert a MD.

3

Prepare the DVD deck for dubbing.

- 1 Press **DVD** and select the audio to be dubbed.
- 2 Search for the point where you want to start dubbing by pressing PLAY (▶), FF (▶▶) or REW (◄◄) then press STOP (■).
- Press REW (◄◄) a little, then press PLAY (►) to start playback.
- i Press **PAUSE** (II) to pause playback a little before the start point.

4

Prepare the audio device for dubbing.

Select the input mode.

5

Start dubbing.

- ☐ Press **PLAY** (►) to start playback on the DVD deck.
- 2 Start recording on the audio device.

6

End dubbing.

Stop recording on the audio device. Then press **STOP** (■) to stop playback on the DVD deck.

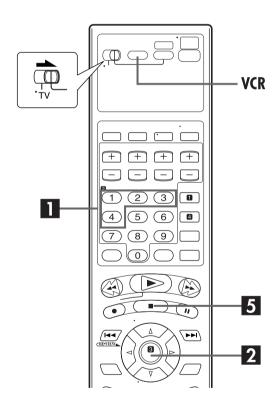
- There may be a discrepancy of several seconds between where you intend editing to start, and where it actually starts.
- You can also dub a Video CD or SVCD. Set "DIGITAL AUDIO OUTPUT" to "PCM ONLY". (F) pg. 76)

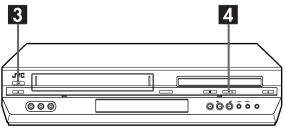
Remote Control Functions

Remote A/B/C/D Code Switching

The Remote is capable of controlling four JVC video units independently. Each of units can respond to one of four codes (A, B, C or D). The remote control is preset to send A code signals because your unit is initially set to respond to A code signals. You can easily modify your unit to respond to B, C or D code signals.

Before performing the following steps: Slide the **TV/VCR/DVD** switch to the right.





On the Remote

Keep pressing **VCR** down during steps **1** − **2**.

Change the remote control code.

Press the **number key "1"** for A, **"2"** for B, **"3"** for C or **"4"** for D.

Set the remote control code.

Press **ENTER** to set the code.

NOTE:

Once the batteries are removed, the remote control code is back to A.

On the unit

Turn off the unit.

Press **POWER** (也/1).

4. Display the code.

Press **PLAY** (**>**) on the unit for over 5 seconds while the unit is turned off. The code currently set appears on the front display panel.

• If the code displayed on the front display panel is different from the code set on the Remote, go to step **5**.

Change the unit's code.

Press **STOP** (■) on the Remote. The code currently set on the Remote will be applied to the unit.

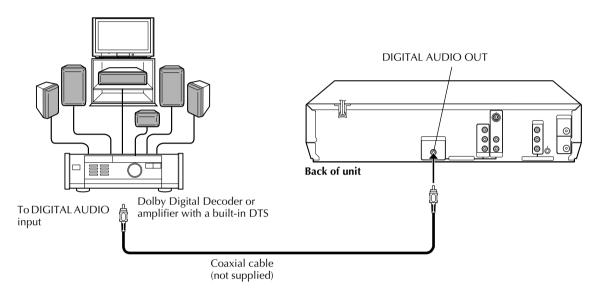
NOTE:

Even if you unplug the end of the mains power cord from the mains, the code currently set remains.

Connecting To A Dolby Digital Decoder or An Amplifier With A Built-in DTS

(DVD deck only)

These instructions enable you to connect your unit to Dolby Digital Decoder or amplifier with a built-in DTS.



Make connections.

Connect the coaxial cable between the unit and the Dolby Digital Decoder or amplifier with a built-in DTS.

NOTES:

- For Dolby digital sound, set "DIGITAL AUDIO OUTPUT" to "DOLBY DIGITAL/PCM". (127 pg. 76)
- For DTS sound, set "DIGITAL AUDIO OUTPUT" to "STREAM/ PCM". (☐ pg. 76)

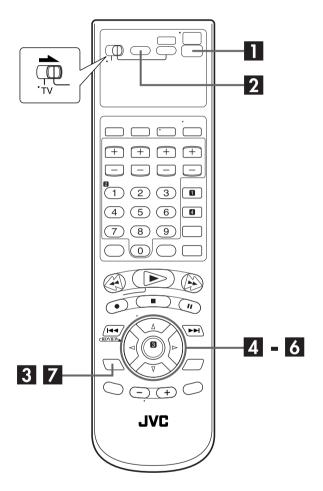
CAUTIONS:

- This unit has a dynamic range of more than 80 dB with regards to its Hi-Fi audio capability. It is recommended that you check the maximum level if you are going to listen to the Hi-Fi audio signals through a stereo amplifier. A sudden surge in the input level to the speakers may damage them.
- Some speakers and televisions are specially shielded to prevent television interference. If both are of the non-shielded type, do not place the speakers adjacent to the TV set as this can adversely affect the video playback picture.

Mode Set

(VCR deck)

- Turn on the TV and select the VCR channel (or AV mode).
- Slide the **TV/VCR/DVD** switch to the right.



You can change various mode settings on the Function Set screen by following the procedure described below.

• For each mode setting, see pages 73 to 74.



Turn on the unit.

Press **POWER** (也/1).

2

Select the VCR deck.

On the unit

Press **VCR/DVD** repeatedly so that the VCR indicator lights up.

On the Remote

Press VCR so that the VCR indicator lights up.

3

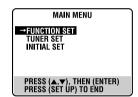
Access the Main Menu screen.

Press **SET UP**.

4

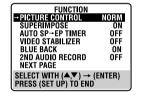
Access the Function Set screen.

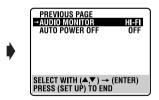
Press $\triangle \nabla$ to move the highlight bar (arrow) to "FUNCTION SET", then press **ENTER** or \triangleright .



Select the mode.

Press $\triangle \nabla$ to move the highlight bar (arrow) to the item you want to change.





6 Select the mode setting.

Press **ENTER** or \triangleright .

7 Retu

Return to the normal screen.

Press SET UP.

* The default setting is **bold** in the table below.

■ PICTURE CONTROL	This feature helps you to adjust the playback picture quality according to your		
NORM	preference. Normally select "NORM".		
EDIT SOFT	NORM:	Picture quality is adjusted automatically.	
SHARP	EDIT:	Minimizes picture degradation during editing (recording and playback).	
G.W.W.	SOFT:	Reduces image coarseness when viewing overplayed tapes containing a lot of noise.	
	SHARP:	Clearer, sharper-edged picture when viewing images with lots of flat, same-colored surfaces such as cartoons.	
	select another	lect "EDIT", "SOFT" or "SHARP", the selected mode will not change until you r mode. lect "EDIT" to dub tapes, be sure to select "NORM" after you finish dubbing	
SUPERIMPOSE ON		ction is set to "ON", various operational indicators appear on the TV ges appear in the selected language. (127 pg. 18)	
OFF	 NOTES: • When you use this unit as the source player for editing, be sure to set "SUPERIMPOSE" to "OFF" before starting. • During playback, the operation mode indicators may be disturbed depending on the type of tape being used. 		
■ AUTO SP→EP TIMER ON OFF	When this function is set to "ON", the unit automatically switches to EP mode to allow complete recording if there is not enough tape to record the entire program while timer-recording in SP mode.		
	For Example: Recording a p	rogram of 140 minutes in length onto a 120-minute tape	
	l	y 110 minutes Approximately 30 minutes node EP mode	
	31 11	Total 140 minutes	
	Make sure you	u set this function to "ON", before the timer-recording starts.	
	,		
	and those the this case, mak timer program In order to en recorded sect There may be switches from	rogrammed the unit to timer-record 2 or more programs, the second program reafter may not fit on the tape if you set "AUTO SP→EP TIMER" to "ON". In see sure the mode is not engaged, then set the tape speed manually during nming. sure that the recording fits on the tape, this feature may leave a slight non-ion at the end of the tape. some noise and sound disturbance at the point on the tape where the unit is SP to EP mode. DEP Timer feature is not available during ITR (Instant Timer Recording), and II not work properly on the following tapes: T(ST)-30, T(ST)-60, T(ST)-90, and	

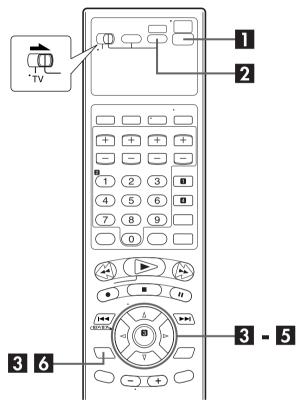
* The default setting is **bold** in the table below.

■ VIDEO STABILIZER ON OFF	 When this function is set to "ON", you can automatically correct vertical vibration in the picture when playing back unstable recordings made on another recorder. NOTES: When you finish viewing a tape, be sure to set this function to "OFF". Regardless of the setting, this function has no effect during recording and during special effects playback. The on-screen display may jitter vertically when this function is set to "ON". To watch recordings with close-caption, set this function to "OFF". 		
BLUE BACK ON OFF	When this function is set to "ON", the TV screen becomes all blue when receiving a channel not in use. NOTE: When you want to receive an unstable channel with poor signals, set this function to "OFF".		
ON OFF	 When this function is set to "ON"; If a SAP program is received, the SAP audio is recorded on both the normal and Hi-Fi tracks. The main audio is not recorded. If a non-SAP program is received, the main audio is recorded on both the Hi-Fi and normal tracks. When this function is set to "OFF", the SAP audio cannot be recorded. NOTES: When the channel is changed on the unit; The "STEREO" indicator appears on the screen for about 5 seconds if the program is a stereo broadcast. The "SAP" indicator appears on the screen for about 5 seconds if the program is a SAP broadcast. Both indicators appear when a stereo program is accompanied by SAP sound. 		
AUDIO MONITOR HI-FI HI-FI L HI-FI R NORM MIX	This unit can record two sound tracks simultaneously (normal and Hi-Fi) on Hi-Fi stereo tape. You can select the sound track(s) to listen to while playing back a Hi-Fi stereo tape. In addition, when playing back a prerecorded tape containing two separate audio programs on the Hi-Fi tracks, you can choose either one by selecting either "HI-FI L" or "HI-FI R". HI-FI: Normally select this. Hi-Fi sound is played back. HI-FI L: Sound on the left Hi-Fi channel is played back. HI-FI R: Sound on the right Hi-Fi channel is played back. NORM: Sound on the normal track is played back. MIX: Both sounds on the Hi-Fi track and normal track are mixed and played back.		
	 NOTES: While playing back a monaural tape, sounds on the normal track will be heard regardless of this setting. You can also use the A.MONITOR button on the Remote to select the desired monitor sound. (Fig. pg. 30) 		
■ AUTO POWER OFF 3H OFF	When this function is set to "3H", the unit is turned off automatically if no operation is done within 3 hours. "AUTO POWER OFF IN 3 MIN" appears on the screen 3 minutes before the unit is turned off.		

Mode Set

(DVD deck)

- Turn on the TV and select the VCR channel (or AV mode).
- Slide the **TV/VCR/DVD** switch to the right.



You can change various mode settings on the Mode Set screen by following the procedure described below.

• For each mode setting, see pages 76 to 78.

A LANGUAGE	MENU LANGUAGE (\$\mathbb{C}\$ pg. 20) AUDIO LANGUAGE (\$\mathbb{C}\$ pg. 20) SUBTITLE (\$\mathbb{C}\$ pg. 20) ON SCREEN LANGUAGE (\$\mathbb{C}\$ pg. 19)	
PICTURE	MONITOR TYPE (F pg. 16, 76) PICTURE SOURCE (F pg. 76) SCREEN SAVER (F pg. 76) FILE TYPE (F pg. 76)	
♠ AUDIO	DIGITAL AUDIO OUTPUT (127 pg. 76) DOWN MIX (127 pg. 77) D. RANGE COMPRESSION (127 pg. 77)	
№ OTHERS	RESUME (IF pg. 78) ON SCREEN GUIDE (IF pg. 78) PARENTAL LOCK (IF pg. 56)	

 The procedure shows how to set "RESUME" to "ON" on the DVD Set Up menu screen as an example.

Turn on the unit.

Press **POWER** (也/1).

Select the DVD deck.

On the unit

Press **VCR/DVD** repeatedly so that the DVD indicator lights up.

On the Remote

Press **DVD** so that the DVD indicator lights up.

Access the DVD Set Up menu screen.

- 1 Press **SET UP**.
- Press < > to select "▶ OTHERS".
- Each time you press the button, the setup menus change as follows;



A LANGUAGE→ PICTURE→ AUDIO → OTHERS → (Back to the beginning)

Select the mode.

Press $\triangle \nabla$ to move the highlight to "RESUME", then press **ENTER**.

Select the mode setting.

Press $\triangle \nabla$ to select "ON", then press **ENTER**.

Return to the normal screen.

Press **SET UP**.

Picture Settings

* The default setting is **bold** in the table below.

■ MONITOR TYPE 16:9 4:3 LB 4:3 PS 16:9 MULTI 4:3 MULTI LB 4:3 MULTI PS	You can select the monitor type depending the TV used when you play back DVD VIDEO discs recorded for wide-screen TVs. If MULTI system (a system that supports both NTSC and PAL signals) is selected, the output will be in PAL format when playing back a disc recorded in PAL system. Multi-system TV is not supported in your area. In this case, please select 16:9, 4:3 or 4:3 PS. For more details, refer to "Monitor Set (DVD deck)" (F) pg. 16).	
PICTURE SOURCE AUTO FILM VIDEO	You can obtain optimal picture quality by selecting whether the content on the disc is processed by field (video source) or by frame (film source). Normally set to "AUTO". AUTO: Used to play back a disc containing both video and film source materials. This unit recognizes the picture type (film or video source) of the current disc according to the disc information. FILM: Suitable for playing back a film or progressive source disc. VIDEO: Suitable for playing back a video source disc with relatively a few moments. If the playback picture is unclear or noisy, or the oblique lines of the picture are rough, try to change to other modes.	
SCREEN SAVER ON OFF	The TV screen may be burned out if a static picture is displayed for a long time. When this function is set to "ON", 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.	
FILE TYPE AUDIO STILL PICTURE	You can select files to play back, when both MP3 files and JPEG files are recorded on a disc. AUDIO: Select this to play back MP3 files. STILL PICTURE: Select this to play back JPEG files. NOTE: Be sure to open and close the disc tray after changing the setting. The unit reads the disc again and the selected file type can be recognized.	

Audio Settings

* The default setting is **bold** in the table below.

DIGITAL AUDIO OUTPUT
PCM ONLY
DOLBY DIGITAL/PCM
STREAM/PCM

Set to the appropriate mode according to the type of the device connected to DIGITAL AUDIO OUT connector on the rear of unit. It is not necessary to set this mode when you connect no device to DIGITAL

AUDIO OUT connector.

PCM ONLY:

Select this when you connect the unit's DIGITAL AUDIO OUT connector to the linear PCM digital input connector of other audio device.

DOLBY DIGITAL/PCM:

Select this when you connect the unit's DIGITAL AUDIO OUT connector to the digital input connector of a Dolby Digital decoder or an amplifier with a built-in Dolby Digital decoder.

STREAM/PCM:

Select this when you connect the unit's DIGITAL AUDIO OUT connector to the digital input connector of an amplifier with a built-in DTS, Dolby Digital, or MPEG multichannel decoder.

DOWN MIX DOLBY SURROUND STEREO	Set to the appropriate mode according to your audio system when you play back a DVD VIDEO disc recorded with surround multichannel audio. This setting affects only the analog audio output signal from the AUDIO OUTPUT connectors (DVD) when playing back a DVD VIDEO disc recorded with surround multichannel audio. DOLBY SURROUND:		
	Select this when you enjoy multichannel surround audio by connecting the unit's analog AUDIO OUTPUT connector (DVD) to a surround decoder or an internal amplifier. STEREO: Select this when you enjoy conventional 2-channel stereo audio by connecting the unit's analog AUDIO OUTPUT connectors (DVD) to a stereo amplifier/receiver or TV, or when you dub audio of a DVD VIDEO disc recorded with surround audio to your MD, cassette, etc.		
	NOTE: The "DOWN MIX" function does not work when the 3D Phonic function is activated. (IF pg. 44)		
D. RANGE COMPRESSION AUTO ON	You can compress the dynamic range (the difference between the loudest and quietest audio signals) of the sound when listening to the sound at a low volume or at night. This function is available with DVD VIDEO discs recorded with the Dolby Digital format. Set to the appropriate mode according to the number of channels recorded.		
	AUTO: Audio is played back with channels other than Dolby Digital channel 1 or 2 compressed. ON: Audio is played back with all channel compressed.		
	 NOTES: This function works only when playing back a disc recorded with Dolby Digital format. The setting is not effective for other discs. This function does not work when the 3D Phonic function is activated. (Fig. pg. 44) 		

Playback diago	Output			
Playback discs	STREAM/PCM DOLBY DIGITAL/PCM		PCM ONLY	
DVD VIDEO with 48 kHz, 16/20/24 bit linear PCM	48 kHz, 16 bit linear PCM			
DVD VIDEO with DTS	DTS bitstream 44.1 kHz, 16 bit stereo linear PCM		stereo linear PCM	
DVD VIDEO with Dolby Digital	Dolby Digital bitstream 48 kHz, 16 bit stereo l PCM		48 kHz, 16 bit stereo linear PCM	
Audio CD/Video CD	44.1 kHz, 16 bit stereo linear PCM			
Audio CD with DTS	DTS bitstream 44.1 kHz, 16 bit stereo linear PCM		stereo linear PCM	
MP3 disc	Linear PCM			

NOTES:

- The unit is not equipped with the DTS 5.1 channel decoding function.
- When you play back 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 connectors, 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.

Others Settings

* The default setting is **bold** in the table below.

RESUME ON	When this function is set to "ON", you can use the resume function. (\square pg. 43)		
OFF	ON: You can start playback from the resume point o placed disc. OFF: You cannot use the resume function.		
	NOTE: This function is not available for Audio CDs and MP3 discs.		
ON SCREEN GUIDE ON OFF	When this function is set to "ON", the unit can display "on-screen guide" icons or characters which shows the conditions of the unit or disc.		

Child Lock

- Turn on the TV and select the VCR channel (or AV mode).
- Slide the **TV/VCR/DVD** switch to the right.

You can disable the unit's operation.



Set the Child Lock.

Press and hold **POWER** (\circlearrowleft /I) on the Remote for more than 10 seconds while the unit is turned on. The unit turns off, and "CL" appears on the front display panel.



• To release the child lock, press and hold **POWER** (७/۱) on the Remote until the unit turns on.

NOTES:

- When the child lock function is in use, keep the Remote out of the children's reach.
- Timer recording programs will be performed even if the child lock function activated.

Scan Mode Set

(DVD deck)

- Turn on the TV and select the VCR channel (or AV mode).
- Slide the TV/VCR/DVD switch to the right.

This unit supports the progressive scan system (eg. 480p*) as well as the conventional interlaced scan system (eg. 480i*).

If your TV equipped with component video connectors supports the progressive video input, you can enjoy a high quality picture by setting the progressive scan mode to active.

- Refer also to the instruction manuals supplied with your TV.
- If your TV equipped with component video connectors does not support the progressive video input, do not change the scan mode to the "PROGRESSIVE".
- * 480p and 480i indicate the number of scanning lines and scanning format of an image signal.
- 480p indicates 480 scanning lines with progressive format.
- 480i indicates 480 scanning lines with interlaced format.

Switch the mode.

During playback or while stopped, press and hold **PROGRESSIVE SCAN** on the unit or **DVD** on the Remote for more than 3 seconds, to change the scan mode between Progressive and Interlace mode.

• When the Progressive scan mode is selected, the Progressive mode indicator (P) lights up on the front display panel.

EN 79

Before requesting service for a problem, use this chart and see if you can repair the trouble yourself. Small problems are often easily corrected, and this can save you the trouble of sending your unit off for repair.

POWER

SYMPTOM POSSIBLE CAUSE		CORRECTIVE ACTION
1. No power is supplied to the unit.	• The AC power cord is disconnected.	Connect the AC power cord.
2. The Remote won't function.	• The batteries are weak.	Replace the dead batteries with new ones.

TAPE TRANSPORT (VCR deck)

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
During recording, the tape does not run. The counter display blinks on the front display panel.	• The unit is in the Record Pause mode.	Press PLAY (►) to resume recording.
2. The tape will not rewind or fast-forward.	The tape is already fully rewound or fast-forwarded.	Check the cassette.

PLAYBACK (VCR deck)

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
1. The VCR deck can not be operated.	The VCR deck is not selected.	On the unit Press VCR/DVD repeatedly so that the VCR indicator lights up. On the Remote Press VCR so that the VCR indicator lights up.
The playback picture does not appear while the tape is running.	If you are using the RF connection, — the TV receiver's channel selector is not set to the VCR channel. — the unit's VCR channel has not been correctly set.	If you are using the RF connection, — set the TV receiver to the VCR channel. — perform "Set the VCR channel." (IF pg. 12).
	If you are using the AV, S-VIDEO* or Component Video* connection, the TV receiver is not set to the AV mode. * (DVD deck only)*	If you are using the AV or S-VIDEO*, Component Video* connection, set the TV to its AV mode. * (DVD deck only)
3. Noise appears during visual search.	• This is normal.	_
Noise appears during normal playback.	The automatic tracking mode is engaged.	Try manual tracking. (pg. 30)
5. The playback picture is blurred or interrupted while TV broadcasts are clear or "USE CLEANING CASSETTE" message appears on the screen.	• The video heads may be dirty.	Use a dry cleaning cassette ECL-3F, or consult your JVC dealer.
6. Breaks are noticeable in Hi-Fi soundtrack.	The automatic tracking mode is engaged.	Try manual tracking. (F pg. 30)



PLAYBACK (DVD deck)

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
1. The button do not work.	The operation is prohibited on the placed disc.	_
2. The DVD deck can not be operated.	The DVD deck is not selected.	On the unit Press VCR/DVD repeatedly so that the DVD indicator lights up. On the Remote Press DVD so that the DVD indicator lights up.
3. "O" appears on the TV screen.	The operation is prohibited on the placed disc.	_
4. "REGION CODE ERROR!" appears on the TV screen.	The disc's region number does not match that of the unit.	Use the discs whose region number includes "ALL" or "4". (pg. 5)
5. The disc cannot be played back.	The disc's region number does not match that of the unit.	Use the discs whose region number includes "ALL" or "4". (F) pg. 5)
	This type of the disc cannot be played back.	See "Unplayable Discs" (F pg. 5).
	• The disc is not placed properly.	Remove the disc, then place the disc properly in the disc tray. (pg. 7, "Placing a Disc")
	The Parental Lock is engaged, and the placed disc is rated higher than the set level.	Release the Parental Lock temporarily (F) pg. 57), or change the set level (F) pg. 57).
6. The language is not played back as you set.	The disc does not contain the language you set.	_
7. Changing audio/subtitle language is not possible.	The disc does not contain the audio/ subtitle in the multiple languages.	With some discs, the language should be set on the top menu. (pg. 41)
8. The subtitles do not appears on the TV	• The disc does not contain the subtitles.	_
screen.	• The subtitle display is set to off.	Set the subtitles display to on. (🖙 pg. 52)
	● A-B Repeat Playback is in progress. (『 pg. 49)	The subtitles recorded around A-B point may not appear.
9. Angle cannot be changed.	The scene is not recorded from the multiple angles.	_

MP3 Playback (DVD deck)

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
1. A disc cannot be played.	• No MP3 files are recorded to the disc.	Replace the disc.
	MP3 files do not have the correct file extension in their file names.	Add correct file extension (.mp3, .MP3 or any uppercase and lowercase combination such as ".Mp3") to their file names.
	• MP3 files are not recorded in a format compliant with ISO 9660 Level 1 or 2.	Replace the disc. (Record MP3 files using a compliant application.)
	• The different types of files are recorded to the disc.	The disc which contains the different types of files may not be played because of its disc characteristics or recording conditions.
2. Not MP3 files but JPEG files are played.	• The FILE TYPE setting is set to "STILL PICTURE".	When both MP3 files and JPEG files are recorded to a disc, set "FILE TYPE" to "AUDIO" to play MP3 files. (© pg. 76)
The MP3 control display appears on the TV screen, but no operation can be performed.	• No MP3 files or JPEG files are recorded to the disc, or the disc is an unplayable disc (such as CD-ROM).	Replace the disc. (🕼 pg. 7)

JPEG Playback (DVD deck)

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
1. A disc cannot be played.	No JPEG files are recorded to the disc.	Replace the disc.
	JPEG files do not have the correct file extension in their file names.	Add correct file extension (.jpg, .jpeg, .JPG, .JPEG or any uppercase and lowercase combination such as ".Jpg") to their file names.
	• JPEG files are not recorded in a format compliant with ISO 9660 Level 1 or 2.	Replace the disc. (Record JPEG files using a compliant application.)
2. Not JPEG files but MP3 files are played back.	• The FILE TYPE setting is set to "AUDIO".	When both MP3 files and JPEG files are recorded to a disc, set "FILE TYPE" to "STILL PICTURE" to play JPEG files. (Pg. 76)

RECORDING (VCR deck)

	•	
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
Recording cannot be started.	There is no cassette loaded, or the cassette loaded has had its record safety tab removed.	Insert a cassette, or using adhesive tape, cover the hole where the tab was removed.
2. TV broadcasts cannot be recorded.	• "F-1" has been selected as the input mode.	Set to the desired channel.
3. Tape-to-tape editing is not possible.	The source (another video recorder, camcorder) has not been properly connected.	Confirm that the source is properly connected.
	All necessary power switches have not been turned on.	Confirm that all units' power switches are turned on.
	• The input mode is not correct.	Set the input mode to "F-1".
4. Camcorder recording is not possible.	The camcorder has not been properly connected.	Confirm that the camcorder is properly connected.
	• The input mode is not correct.	Set the input mode to "F-1".
5. "○" and "▷" on the front display panel won't stop blinking.	The end of the tape was reached during recording.	The program may not have been recorded in its entirety. Next time make sure you have enough time on the tape to record the entire program.

TIMER RECORDING (VCR deck)

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
Timer recording won't work.	The clock and/or the timer have been set incorrectly.	Re-perform the clock and/or timer settings.
	The timer is not engaged.	Press TIMER and confirm that "O" is displayed on the front display panel.
2. Timer programming is not possible.	• Timer recording is in progress.	Timer programming can't be performed while a timer recording is in progress. Wait until it finishes.
3. "O" on the front display panel won't stop blinking.	The timer is engaged but there's no cassette loaded.	Load a cassette with the record safety tab intact.
	The loaded cassette has had its record safety tab removed.	Remove the cassette and cover the hole with adhesive tape, or insert a cassette with the record safety tab intact.
4. "⊕", "○" and "▷" on the front display panel won't stop blinking.	The end of the tape was reached during timer recording.	The program may not have been recorded in its entirety. Next time make sure you have enough time on the tape to record the entire program.
5. "O" blinks for 10 seconds and the Timer mode is disengaged.	TIMER has been pressed when there are no programs in memory, or the timer record information has been programmed incorrectly.	Check the programmed data and reprogram as necessary, then press TIMER again.
6. "○" and "▷" on the front display panel won't stop blinking.	The end of the tape was reached during Instant Timer Recording.	The program may not have been recorded in its entirety. Next time make sure you have enough time on the tape to record the entire program.
7. "♣", "○" and "▷" on the front display panel won't stop blinking.	• The Satellite Auto Recording mode is engaged but there is no cassette loaded.	Load a cassette with the record safety tab intact.
	The loaded cassette has had its record safety tab removed.	Remove the cassette and cover the hole with adhesive tape, or insert a cassette with the record safety tab intact.
	The end of the tape was reached during Satellite Auto Recording.	The program may not have been recorded in its entirety. Next time make sure you have enough time on the tape to record the entire program.

OTHER PROBLEMS

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
The image of TV broadcast appears distorted on the TV screen.	The unit leaves turned on and the DVD deck is selected.	Turn off the unit, or press VCR to select the VCR deck, then press TV/VCR so that the VCR indicator disappears from the front display panel.
2. Whistling or howling is heard from the TV during camcorder recording.	The camcorder's microphone is too close to the TV.	Position the camcorder so its microphone is away from the TV.
	• The TV's volume is too high.	Turn the TV's volume down.
3. When scanning channels, some of them are skipped over.	Those channels have been designated to be skipped.	If you need the skipped channels, restore them. (CF pg. 25)
4. The channel cannot be changed.	• Recording is in progress.	Press PAUSE (■) to pause the recording, change channels, then press PLAY (►) to resume recording.
5. Channel settings that were made manually seem to have changed or disappeared.	After the manual settings were made, Auto Channel Set was performed.	Perform manual setting again.

ATTENTION

This unit contains microcomputers. External electronic noise or interference could cause malfunctioning. In such cases, switch the unit off and unplug the AC power cord. Then plug it in again and turn the unit on. Take out the cassette. After checking the cassette, operate the unit as usual.

Tray Lock

You can lock the disc tray to prohibit the unwanted disc ejection by children.

To lock the disc tray.

While the unit is turned off, press and hold \blacksquare , then press \triangleq on the unit. "LOCK" appears on the front display panel and the disc tray is locked.

To unlock tray While the unit is turned off, press and hold ■, then press ▲ on the unit. "UNLOCK" appears on the display panel.

PLAYBACK

- Q. What happens if the end of the tape is reached during playback or search?
- **A.** The tape is automatically rewound to the beginning.
- Q. During search, slow, still and frame-by-frame playback, I can't hear any audio. What's the problem?
- **A.** This is normal.
- Q. Can the unit indefinitely remain in the still mode?
- **A.** No. It stops automatically after 5 minutes to protect the heads.
- Q. When returning from search to normal playback, the picture is disturbed. Should I be concerned about this?
- A. No, it is normal.
- Q. Noise bar appear during search. What's the problem?
- **A.** This is normal.
- Q. Sometimes, during Index Search, the unit can't find the program I want to see. Why not?
- **A.** There may be index codes too close together.

RECORDING

- Q. When I pause and then resume a recording, the end of the recording before the pause is overlapped by the beginning of the continuation of recording. Why does this happen?
- **A.** This is normal. It reduces distortion at the pause and resume points.
- Q. Can the unit indefinitely remain in the Record-Pause mode?
- **A.** No. The unit goes to its Stop mode automatically after 5 minutes to protect the heads.
- Q. What happens if the tape runs out during recording?
- **A.** The unit stops recording, and "○" and "▷" on the front display panel won't stop blinking.

TIMER RECORDING

- Q. "O" and "O" remain lit on the front display panel. Is there a problem?
- **A.** No. This is a normal condition for a timer recording in progress.
- Q. Can I program the timer while I'm watching a tape or a TV broadcast?
- **A.** You won't see the picture as it is replaced by the on-screen menu, but the audio from the program or tape you're viewing can be heard.

SPECIFICATIONS EN 8.2

GENERAL

Power requirement : AC 110 - 220 V ~, 50 Hz/60 Hz

Power consumption

Power off : 23 W Power off : 5.2 W

Temperature

Öperating : 5° C to 40° C (41° F to 104° F) Storage : -20° C to 60° C (-4° F to 140° F)

Operating position: Horizontal only

Dimensions (WxHxD)

: 435 mm x 93 mm x 272 mm

Weight : 4.1 kg

Format : VHS NTSC standard

Maximum recording time

(SP) : 210 min. with ST-210 video

cassette

(EP) : 630 min. with ST-210 video

cassette

VIDEO/AUDIO (VCR deck)

Signal system : NTSC color signal and EIA

monochrome signal, 525 lines/60

fields

Recording system : DA4 (Double Azimuth) head helical

scan system

Signal-to-noise ratio: 45 dB Horizontal resolution

: 230 lines

Frequency range : 70 Hz to 10,000 Hz (Normal audio)

20 Hz to 20,000 Hz (Hi-Fi audio)

Input/Output : RCA connectors:

IN x 1, OUT x 1

VIDEO/AUDIO (DVD deck)

Signal system : NTSC

Applicable disc : DVD (12 cm, 8 cm) CD (12 cm, 8 cm)

Audio characteristics

DVD : 4 Hz – 22 KHz

Frequency response

CD : 4 Hz – 20 KHz

S/N Ratio : 90 dB

Harmonic distortion

: 0.1 %

Wow and flutter : Below Measurable Level

Dynamic range : 90 dB

Output

Component-Y: (RCA) 1.0 Vp-p/75 ohm

Component-P_B/P_R

: (RCA) 0.7 Vp-p/75 ohm

Audio : (RCA) 2 Vrms, 1 Kohm Digital Audio : (COAXIAL) 0.5 Vp-p/75 ohm **TUNER**

Tuning system : Frequency synthesized tuner

Channel coverage

VHF : Channels 2 – 13 UHF : Channels 14 – 69 CATV : 113 Channels

RF output : Channel 3 or 4 (switchable; preset

to Channel 3 when shipped)

75 ohms, unbalanced

TIMER

Clock reference : Quartz

Program capacity: 1-year programmable timer/

8 programs

Memory backup time

: Approx. 3 minutes

ACCESSORIES

Provided accessories: RF cable,

Infrared remote control unit,

"AA" battery x 2, Conversion Plug

Specifications shown are for SP mode unless otherwise

specified.

E.& O.E. Design and specifications subject to change without

notice.

A	
A-B Repeat Playback	49
About Discs	
JPEG	63
MP3	60
Placing a Disc	
Playable Discs	
Region Number	5
Unplayable Discs	
Angle Selection	53
Audio Channel Selection	
Audio Language Selection	
Auto Channel Set	
C	
Chapter Search	
Check, cancel and change programs	
Child Lock	
Clock Set	
Component Video Connection	14
Connecting To A Dolby Digital Decoder or	
An Amplifier With A Built-in DTS	71
D	
Digital Audio Dubbing	
Disc menu	41
Dubbing (from DVD to VCR)	68
E	
EDITING (DVD DECK)	
	60
Digital Audio Dubbing	69
EDITING (VCR DECK)	(0
Dubbing (from DVD to VCR)	
Edit From A Camcorder	
Edit To Or From Another Video Recorder	
Elapsed Recording Time Indication	
Express Timer Programming	34
G	
Group/file selection	65
Group/track selection	63
Group/track selection	02
I	
INDEX	8
Index Search	
Instant ReView	
Instant Timer Recording (ITR)	
J	
JPEG control display	63

Language	.18
Language Code List	.21
Menu/Audio/Subtitle Language Set	_
(DVD deck only)	.20
On-screen Language Set (DVD deck)	
On-screen Language Set (VCR deck)	
Letter Box	. 17
Locating the start point of the item or skip the item \dots	. 42
M	
Manual Channel Set	.25
Manual Tracking	.30
Mode Set (DVD deck)	
AUDIO LANGUAGE	. 20
D. RANGE COMPRESSION	
DIGITAL AUDIO OUT	
DOWN MIX	
FILE TYPE	
MENU LANGUAGE	.20
MONITOR TYPE	76
ON SCREEN GUIDE	. 78
ON SCREEN LANGUAGE	
PICTURE SOURCE	
RESUME	
SCREEN SAVER	
SUBTITLE	
Mode Set (VCR deck)	
2ND AUDIO RECORD	. 74
AUDIO MONITOR	. 74
AUTO POWER OFF	
AUTO SP→EP TIMER	
BLUE BACK	
PICTURE CONTROL	73
SUPERIMPOSE	73
VIDEO STABILIZER	74
MP3 control display	
N ,	
Next Function Memory	20
THEALT UNCLION METHOLY	. 43
0	
OPERATIONS ON DVD DECK40 -	- 65
OPERATIONS ON VCR DECK26 -	- 39

L

P	
Pan&Scan12	7
Parental Lock	
Country/Area Code List58	3
To change the settings	
To set Parental Lock for the first time 50	ó
To temporarily release the Parental Lock 52	7
Playback (DVD deck)	
Playback (JPEG)	
Playback (MP3) 61 – 62	
Playback (VCR deck)	
Playback Control (PBC) Function41, 50	J
Plug&Play Set1	5
R	
Record One Program While Watching Another 32	
Recording	
Recording Resume Function3	
Region Number	
Remote Control Functions	
Repeat Playback	
Resume Function	3
S	
Satellite Auto Recording39	9
Scan Mode Set (DVD deck)	8
Second Audio Recording	3
Skip Search28	3
Slow Motion27, 43	3
Soundtrack Selection30	J
Still Picture/Frame-By-Frame Playback27, 43	3
Subtitle Selection	
S-VIDEO Connection	3

T		
Tape Position Indicator		10
Tape Remaining Time		33
Time Search		
Timer Recording	34 –	39
Top menu		41
Tuner Set		
V		
Variable Speed Search	.27,	42
VFP function		45
W		
When programs overlap each other		38
Z		
Zooming	. 43,	65
3D Phonic		44



Para el residente de Mexico

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