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DVD PLAYER & VIDEO CASSETTE RECORDER

HR-XVC33UM









DIGITAL

COMPACT











3D-PHONIC



INSTRUCTIONS

LPT0854-001B

Z EN

SAFETY FIRST

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 心川 button does not completely shut off mains power from the unit, but switches operating current on and off. "也" shows electrical power standby and " | " 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

	CAUTION: Visible and invisible	ADVARSEL: Synlig og usynlig	VARNING : Synlig och	VARO: Avattaessa ja suojalukitus
	laser radiation when open and	laserstråling når maskinen er	osynlig laserstrålning när	ohitettuna tai viallisena olet alttiina
	interlock failed or defeated.	åben eller interlocken fejler.	den öppnas och spärren är	näkyvälle ja näkymättömälle
				lasersäteilylle. Vältä säteen
	BEAM. (e)	stråling. (d)	strålen. (s)	kohdistumista suoraan itseesi. (f)
l				LP41077-001A

Use only discs marked with the following.



DVD (8 cm /12 cm disc)



Video CDs (8 cm /12 cm disc)



IMPORTANT

CAUTION

the unit.

60065.

POWER SYSTEM:

Hz with automatic switching.

type of your AC WALL outlet.

It may be unlawful to record or play back copyrighted

■ When you are not using the unit for a long period of

Dangerous voltage inside. Refer internal servicing to

Changes or modifications not approved by JVC could

outlet prior to connecting or disconnecting any

void user's authority to operate the equipment.

The rating plate and safety caution are on the rear of

This unit is produced to comply with Standard IEC

This set operates on voltage of AC 110 – 220V \sim , 50/60

Use the conversion plug (provided) depending on the

gualified service personnel. To prevent electric shock or fire hazard, remove the power cord from the AC

time, it is recommended that you disconnect the

power cord from the AC outlet.

signal lead or aerial.

material without the consent of the copyright owner.

Audio CDs (8 cm /12 cm disc)



SVCD (8 cm /12 cm disc)

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VHS SQPB HIGL

- Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.
- "DTS" and "DTS 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. <u>DO NOT</u> 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. <u>DO NOT</u> place heavy objects on the unit or Remote.
- <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.)

- 5. <u>DO NOT</u> 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.

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DISC INFORMATION

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 62 for details.)
 - CD-R/RW discs recorded in JPEG format in accordance with the "ISO 9660" format. (See page 65 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
 Dises which
- 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



DISC INFORMATION (cont.)

DVD VIDEO Marks

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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
	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)).
DIGITAL OUT	DTS (Digital Theater System) You can enjoy DTS audio if you connect the amplifier with a built-in DTS decoder to the DIGITAL AUDIO OUT connector of the 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.

Track 1	Т	rack 2	_	Track 3	1	Track 4	
			~				

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" (III) pg. 43).

Placing a Disc

1 Open the disc tray.

Press **OPEN/CLOSE** (\triangleq) 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.





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.

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FRONT VIEW

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- Power Button (POWER (心/I)) に pg. 18
- **2** VCR Indicator 🖙 pg. 28, 33
- **3** VHS Cassette Loading Slot
- VCR/DVD Button 🖙 pg. 28, 33, 42
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- Stop Button (STOP (■)) 🖙 pg. 28, 33, 42
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- **8** Play Button (PLAY (►)) 🖙 pg. 28, 42
- VHS Eject Button (EJECT (▲)) 🖙 pg. 28, 33

- Remote Sensor
- 🚯 Front Display Panel 🖙 pg. 10
- Record Button (REC (●)) □ pg. 33
 g. 33
- (Rewind Button (REW (◄◄)) 🖙 pg. 28, 29, 44
- Fast Forward Button (FF (►►)) 🖙 pg. 28, 29, 44
- Channel Button (CH +/-) 🖙 pg. 33
- Progressive Scan Button (PROGRESSIVE SCAN) pg. 82

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REAR VIEW



- G Antenna Input Connector (VHF/UHF IN) ☞ pg. 13
- Antenna Output Connector (VHF/UHF OUT) g. 13



EN II

ON-SCREEN DISPLAY (VCR deck)

If you press DISPLAY on the Remote when "SUPERIMPOSE" is set to "ON" (IF pg. 76), various operational indicators appear on the TV screen.

For On-screen display for DVD deck, refer to "Using the on-screen bar" (IF pg. 48).



- Operation Mode Indicators **2** Tape Speed (SP/EP)

NOTE:

3 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. 30) The position of "I" in relation to "0" (beginning) or "+" (end) shows you where you are on the tape.

indicator may not appear correctly.



Depending on the type of tape being used, the tape position

6 Counter Display

Index number ☞ pg. 30

- O Audio Mode Display ☞ pg. 32

- Day/Clock Display
- Channel Position Number/Auxiliary Input Indicator (F-1 or L-1)

5 Tape Remaining Time Indicator 🖙 pg. 35

Cassette Loaded" Mark

To recall an indication

- 1 Press DISPLAY.
 - 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 **DISPLAY** again to clear the display.
 - The RECORD/PAUSE indication remains on the screen.

<u>12 en</u> **REMOTE**



Buttons with a small dot on the left side of the name can also be used to operate your TV. (IFP pg. 73)

- VCR Button 🖙 pg. 28, 33
- 2 TV/VCR/DVD switch ☞ pg. 18
- 3 Menu Button (MENU) 🖙 pg. 43
- SP/EP Button ☞ pg. 33 Top Menu Button (TOP MENU) ☞ pg. 43
- Stop Time Button (TOT MERCO) I pg. 43 Stop Time Button (STOP +/-) I pg. 36 Display Button (PLAY SETUP) I pg. 48 Title Button (TITLE) I pg. 64
- Start Time Button (START +/−) ☞ pg. 36 Repeat Button (REPEAT) ☞ pg. 50, 64, 67 Zooming Button (ZOOM) ☞ pg. 45
- 🕖 Number Keys 🖙 pg. 27, 33, 64
- B Daily Button (DAILY) ☞ pg. 37
- Ocunter Reset Button (C.RESET) I pg. 35 Cancel Button (CANCEL) pg. 39 10 Button
- Play Button (PLAY (►)) 🖙 pg. 28, 42
- (Rewind Button (REW (◄◄)) 🖙 pg. 28, 29, 44
- B Stop Button (STOP (■))
 r pg. 28, 33, 42
- B Record Button (REC (●)) □ pg. 33

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- Reverse Skip/Index Button (SKIP/INDEX (I◄◄))
 □ g. 30, 43
 - Review Button (CREVIEW) CF pg. 30
- ⊕ △▽ Button ☞ pg. 18 TV/VCR Channel Button (TV/VCR CH +/-) ☞ pg. 73
- B Set Up Menu Button (SET UP MENU) 🖙 pg. 18
- ⑦ 3D-Phonic Button (3D-PHONIC) ☞ pg. 46
- B TV Volume Button (TV VOL+/–) ☞ pg. 73
- DVD Button 🖙 pg. 42
- **@** Power Button (POWER (⊍/I)) ☞ pg. 18

 (U) TV Muting Button (MUTE) ☞ pg. 73

 Audio Monitor Button (A.MONITOR)
- ☞ pg. 32, 56, 57 **2** TV/VCR Button ☞ pg. 34
- **3** Date Button (DATE $\pm/-$) \Box pg. 36
- Subtitle Button (SUB TITLE) 🖙 pg. 54 Angle Button (ANGLE) 🖙 pg. 55 * With this button, you can also adjust the brightness of front
- display panel. +: brightens the display
- -: darkens the display
- **2** Channel Button (CH +/-) \square pg. 33
- **(a)** Programing Button (PROG.) \square pg. 36
- **2** Timer Button (TIMER) \square pg. 37
- Weekly Button (WEEKLY) 🖙 pg. 37
- Program Check Button (PROG. CHECK) pg. 38
 - Return Button (RETURN) 🖙 pg. 43
- Satellite Auto Recording Button (REC LINK) pg. 41
- +10 Button
- ④ Auxiliary Button (AUX) ☞ pg. 68
- ❸ Pause Button (PAUSE (III)) I pg. 29, 33
- OK Button 🖙 pg. 18
- \bigcirc \triangleleft \triangleright Button \square pg. 18
- 🗿 Display Button (DISPLAY) 🖙 pg. 35
- Skip Search Button (SKIP SEARCH)
 r pg. 30 DVD Picture Button (DVD PICTURE)
 r pg. 47

How To Use

Before use, insert two AA size batteries into the Remote with the polarity (\oplus and \ominus) 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 and other brands. (IF pg. 73)

- 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.

EN

INSTALLING YOUR NEW UNIT

Basic Connections

Antenna or Cable



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 89.

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 —

- 1 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.
- To obtain high-quality pictures, you can also use the S-VIDEO connection or Component Video Connection. (DVD deck only) (CP pg. 14, 15)

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.
- 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 "3 CH", "4 CH" or "- CH" (off), then press OK.
- If Plug&Play or Tuner setting has not previously been performed, the Language Select screen appears and Plug&Play takes place automatically.

<u>14 EN</u> 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.

Antenna or Cable



INSTALLING YOUR NEW UNIT (cont.)

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

Connect the unit to TV.

- 1 Connect the antenna, unit and TV as per "AV Connection". (EP pg. 13)
- 2 Connect the unit's S VIDEO OUTPUT (DVD) connector to the TV's S-VIDEO input connector.

2

Connect the unit to power source.

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

3 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.

- Press CH +/- on the Remote to select "- CH" (off), then press OK.
- 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-VHS pictures when you play back discs on the DVD deck.
- 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 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 your TV to the AV mode. (CF pg. 73)
- For switching the TV's mode, refer to the instruction manual of your television.

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.

Antenna or Cable



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

Connect the unit to TV.

- 1 Connect the aerial, unit and TV as per "AV Connection". (🖙 pg. 13)
- 2 Connect the unit's COMPONENT VIDEO OUT connectors to the TV's component video input connectors.

2 0

Connect the unit to power source.

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

B 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.
- Press CH +/- on the Remote to select "- CH" (off), then press OK.
- 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 when you play back discs on the DVD deck.
- 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 your TV to the AV mode. (IF pg. 73)
- For switching the TV's mode, refer to the instruction manual of your television.

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INITIAL SETTINGS

Plug & Play Set Auto Channel Set

The Plug & Playn 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.



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 a AC outlet.
- The TV should be set to its AV mode (with AV, S-VIDEO or Component Video connection (IF pg. 13, 14, 15) or VCR channel (with RF connection **E** pg. 13).
- Slide the TV/VCR/DVD switch to the right.

Turn on the unit.

Press U/I on the unit or Remote. The Language Select screen appears on the TV screen.

Select the language. 7

Press $riangle \nabla$ to move the highlight bar (arrow) to the language of your choice, then press **OK** 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. (🕼 pg. 21)



Set the time.

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

• Press and hold $\triangle \nabla$ to change the time by 30 minutes.



Set the date.

Press $\triangle \nabla$ to set the date, then press **OK** or \triangleright . • Press and hold riangle
abla to change the date by 15 days.



Set the year.

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

<u>en 17</u>

Start Auto Channel Set.

Press MENU.

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 OK on the Remote. The unit will try Auto Channel Set again.

NOTE:

If there is a power cut, or if you press U/I or SET UP MENU 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 **1**.

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 IF pg. 20
 Tuner setting IF pg. 26
 Clock setting IF pg. 24

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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.

INITIAL SETTINGS (cont.)



Turn on the unit.

Press **POWER** (也/I).



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.



1 Press SET UP MENU.

 $2 \operatorname{Press} \triangleleft \triangleright \text{ to select}$ "
PICTURE".



Select the mode.

Press $riangle \nabla$ to move $\ensuremath{\overline{\mbox{V}}}$ to "MONITOR TYPE", then press OK.



Select the mode setting.

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



Return to the normal screen.

Press SET UP MENU.



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

MONITOR TYPE

- 16:9 NORMAL (Wide television conversion): Select this when the aspect ratio of your TV is 16:9 (wide TV).
- 16:9 AUTO (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.

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.



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Language

20 en

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



INITIAL SETTINGS (cont.)

On-screen Language Set (VCR deck)

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



Turn on the unit.

Press **POWER** (U/I).

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 MENU.

4. Access the Initial Set screen.

Press $riangle \nabla$ to move the highlight bar (arrow) to "INITIAL SET", then press **OK** or ightarrow.



5 Select the language.

Press $\triangle \nabla$ to move the highlight bar (arrow) to "LANGUAGE", then press **OK** or \triangleright repeatedly until the desired language is selected.



Return to the normal screen.

Press SET UP MENU.

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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.



1

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3 = 5

Turn on the unit.

Press **POWER** (し/I).

Select the DVD deck. 72

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 MENU. 2 Press $\triangleleft \triangleright$ to select "A LANGUAGE".





Select the mode.

Press $riangle \nabla$ to move $\ensuremath{\overline{\ltimes}}$ to "ON SCREEN LANGUAGE", then press OK.

MENU LANGUAGE ENGLISH AUDIO LANGUAGE ENGLISH SUBTITLE OFF ON SCREEN LANGUAGE ENGLISH	AUDIO LANGUAGE ENGLISH
	SUBTITLE OFF
ON SCREEN LANGUAGE ENGLISH	ODDITIEL OTT
	ON SCREEN LANGUAGE ENGLISH



Select the mode setting.

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



Return to the normal screen.

Press SET UP MENU.

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INITIAL SETTINGS (cont.)

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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** (U/I).



Select the DVD deck.

On the unit

Press $\ensuremath{\textit{VCR/DVD}}$ 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 screen.

Press SET UP MENU.
 Press <<p>○ to select
 "▲ LANGUAGE".



Select the mode.

Press $\triangle \nabla$ to move \square to "MENU LANGUAGE", then press **OK**.





Select the mode setting.

Press $\triangle \nabla$ to select the desired setting, then press **OK**. • See "Language Code List" ($\square Pg$, 23).



Return to the normal screen.

Press SET UP MENU.

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
AZ	Ázerbaijani
BA	Bashkir
BE	Byelorussian
BG	Bulgarian
BH	Bihari
BI	Bislama
BN	Bengali, Bangla
BO	Tibetan
BR	Breton
CA	Catalan
CO	Corsican
CS	Czech
CY	Welsh
DA	Danish
DZ	Bhutani
EL	Greek
EO	Esperanto
ET	Estonian
EU	Basque
FA	Persian
FI	Finnish
FJ	Fiji
FO	Faroese
FY	Frisian
GA	Irish
GD	Scots Gaelic
GL	Galician
GN	Guarani
GU	Gujarati
HA	Hausa
HI	Hindi
HR	Croatian
HU	Hungarian
HY	Armenian
IA	Interlingua
IE	Interlingue

IK	Inupiak
IN	Indonesian
IS	Icelandic
IW	Hebrew
JI	Yiddish
JW	Javanese
KA	Georgian
KK	Kazakh
KL	Greenlandic
КM	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	Polísh
PS	Pashto, Pushto
PT	Portuguese
QU	Quechua
RM	Rhaeto-Romance

RN	Kirundi
RO	Rumanian
RU	Russian
RW	Kinyarwanda
SA	Sanskrit
SD	Sindhi
SG	Sangho
SH	Serbo-Croatian
SI	Singhalese
SK	Slovak
SL	Slovenian
SM	Samoan
SN	Shona
SO	Somali
SQ	Albanian
SR	Serbian
SS	Siswati
ST	Sesotho
SU	Sundanese
SV	Swedish
SW	Swahili
TA	Tamil
TE	Telugu
TG	Tajik
TH	Thai
TI	Tigrinya
ΤK	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

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24_{EN} Clock Set

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



INITIAL SETTINGS (cont.)

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(\$

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



Turn on the unit.

Press POWER (U/I).



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.



Press SET UP MENU.

Access the Initial Set screen.

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



PRESS (▲,▼), THEN (OK) PRESS (MENU) TO END



Access the Clock Set screen.

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

INITIAL SET				
→CLOCK SET Language	ENGLISH			

SELECT WITH (▲,▼) AND (OK) PRESS (MENU) TO END Filename [XVC33UM_06Index.fm] XVC33UM_01.book Page 25 Monday, August 4, 2003 7:24 PM

EN





Set the time.

Press $\triangle \nabla$ to set the hour, then press **OK** or \triangleright . • Press and hold $\triangle \nabla$ to change the time by 30 minutes.





Set the date.

Press $\triangle \nabla$ to set the date, then press **OK** or \triangleright . \bullet Press and hold $\bigtriangleup \bigtriangledown$ to change the date by 15 days.



Press $riangle \nabla$ to set the year.



Press SET UP MENU and normal screen appears.

To make corrections any time during the process Press **OK** or [▷] repeatedly until the item you want to change blinks, then press $\triangle \nabla$.

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<u>26 en</u> 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.

INITIAL SETTINGS (cont.)



Press POWER (U/I).



On the unit

Press $\ensuremath{\textit{VCR}}\xspace/\ensuremath{\textit{DVD}}\xspace$ repeatedly so that the VCR indicator lights up.

On the Remote

Press VCR so that the VCR indicator lights up.



Access the Main Menu screen.

Press SET UP MENU.

Access the Tuner Set screen.

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

MAIN MENU FUNCTION SET →TUNERSEI INITIAL SET	
PRESS (▲,▼), THEN (OK) PRESS (MENU) TO END	

5 Perform Auto Channel Set.

Press $\triangle \nabla$ to move the highlight bar (arrow) to "AUTO CHANNEL SET", then press **OK** 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 MENU.

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Manual Channel Set

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



Press POWER (U/I).



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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.



Access the Main Menu screen.

Press SET UP MENU.

Access the Tuner Set screen.

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

5

Access the Manual Channel Set screen.

Press $\bigtriangleup \bigtriangledown$ to move the highlight bar (arrow) to "MANUAL CHANNEL SET", then press **OK** or \triangleright .

TUNER SET		
BAND AUTO CHANNEL SET →MANUAL CHANNEL SET	CATV	

SELECT WITH (▲,▼) AND (OK) PRESS (MENU) TO END



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 **OK** or \triangleright to set to
 - "ADD"
- 3 Repeat 1 to 2 to add other channels.

To skip channels

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

Return to the normal screen.

Press SET UP MENU.

MANUAL CHANNEL SET (\$AT¥) CH 45 ADD PRESS NUMBER KEY (0-9) OR (▲,▼), THEN (OK) PRESS (MENU) TO END

<u>28 en</u> Basic Playback

- Turn on the TV and select the VCR channel (or AV mode).
- 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"). (III) pg. 76)

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

OPERATIONS ON VCR DECK

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

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.



Find the program start point.

If the tape is advanced past the start point, press **REW** (◀◀). To go forward, press **FF** (►►).

4. Start playback.

Press PLAY (►).

Stop playback.

Press **STOP** (\blacksquare). Then press **EJECT** (▲) on the VCR deck to remove the cassette.



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 resolution. • 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 colour.
- 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 to correct the picture.

2 Activate frame-by-frame playback.

Press PAUSE (II) 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.

• The speed changes for each direction by pressing **REW** (and \mathbf{FF} (**>>**) repeatedly.

NOTE:

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

High-Speed (Turbo) Search

During playback, press **FF** (►►) for forward high-speed search, or **REW** (

- The speed changes for each direction by pressing **REW** (and \mathbf{FF} (\mathbf{PP}) repeatedly.
 - When pressing **FF** (**>>**):
 - $(SP): +5x \leftrightarrow +7x$

(EP): +11x↔+21x When pressing **REW** (

Once **REW** (\checkmark) is pressed, reverse search starts in -1xnormal playback speed. After this process, each press of REW (\triangleleft) 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** (►).

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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** (**>**).

OPERATIONS ON VCR DECK (cont.)

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FF

INDEX

REMAIN COUNT 10 : 00 -1 : 23 : 45

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<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** (**>**I) once.



Index number

• 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 **CREVIEW**. 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.

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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** (७/١) 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** (**I**) at any time.

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

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OPERATIONS ON VCR DECK (cont.)

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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.

• 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. (🖙 pg. 77)

TRACK	USE	
On-Screen Display		
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. (EF pg. 76)

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 (ICF pg. 33, 34, 36), 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.

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 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** (**II**). Press **PLAY** (►) to resume recording. • You can select channel during the Record Pause mode.



6

Stop recording.

Press **STOP** (\blacksquare). Then press **EJECT** (▲) on the VCR deck to remove the cassette.

<u>34 EN</u> 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.



OPERATIONS ON VCR DECK (cont.)

Record One Program While Watching Another

If your unit is connected to the TV via the AV connection, press **TV/VCR**. The unit's VCR indicator 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 record
- During timer recordingDuring 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** (\bullet) again. " \bigcirc " 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 programed recording won't start even if their start time has come. In such a case, the timer programed recording starts (if the end time of the timer programed 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 " is a displayed.



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

NOTES:

- When you press **DISPLAY**, 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 **DISPLAY**.
- 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, 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". (III) pg. 77)

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.

<u>36 en</u>

Express Timer Programing

Before performing Express Timer Programing:

- 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.



OPERATIONS ON VCR DECK (cont.)

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



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.

Access the Program screen.

Press **PROG.** (If you're just starting out, "P1" 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. 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.
EN $\mathcal{J}/$

6 Enter the channel position.

Press CH +/-.



Press SP/EP.

8

Return to the normal screen.

Press **PROG.** or **OK**. "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 40.

• Repeat steps 2 – 8 for each additional program.

9

Engage the unit's timer mode.

Press **TIMER**. The unit turns off automatically and " \mathfrak{O} " appears on the front display panel.

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

To Timer-Record Weekly Or Daily Serials:

— anytime during steps **B** through **D**/ 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. (IEF pg. 39)
- In case of a power failure after programing, the unit's memory backup keeps your selections for approximately 3 minutes.
- 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 Programing:

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

Filename [XVC33UM_07S-VHS.fm]

XVC33UM_01.book Page 38 Monday, August 4, 2003 7:24 PM

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OPERATIONS ON VCR DECK (cont.)

Check, cancel and change programs



1

1

23

Disengage the timer mode.

Press TIMER, then press POWER (U/I).



Access the Program Check screen.

Press PROG. CHECK.

8	1 2 3 4 5 6 7	START 8:00P 10:00A 11:30P	STOP 10:00 10:45 1:00	CH 12 40 125	DATE 12/24 12/25 12/25
PRESS (CHECK) TO NEXT	8				-

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



Filename [XVC33UM_07S-VHS.fm]

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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**.

5

Return to the normal screen.

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



Return to the timer mode.

Press TIMER.

Filename [XVC33UM_07S-VHS.fm]





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 will be record		er program number
10	:00 11:	00 12	2:00
Program 1	Cł	410]
Program 2	Cł	H40	┣ Not recorded
Pattern 2:	The program	starting earli	er will be recorded.
Program		CH10	12:00
Pattern 3:	The program	starting earli	er will be recorded, 3 portion of the other
10:00 Program 1	11:00 CH10	12:00	
	Program 2	Not record	CH40 ed

OPERATIONS ON VCR DECK (cont.)

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.

2 Select the program to modify. Press $\triangle \nabla$, then press **OK** 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.

3 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 OK. "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.

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EN 41

Satellite Auto Recording

This function allows you to automatically record a satellite program which is timer-programed on your external DBS receiver. Connect a DBS receiver to the unit's AUDIO/VIDEO INPUT (L-1) connectors 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.



NOTES:

- 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 **B**, 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 Programing" (CF pg. 36) to timer-record a satellite program.

ATTENTION

 Be sure not to turn on the DBS receiver before the program is executed; otherwise, the unit will start recording when

 If you have connected another appliance other than a DBS receiver to the AUDIO/VIDEO INPUT (L-1) connectors, be sure not to engage the Satellite Auto Recording mode;

otherwise, the unit will start recording when the connected

• Satellite Auto Recording and timer-recording cannot be

• Make sure the DBS receiver is connected to the unit's

Press VCR/DVD repeatedly so that the VCR indicator

Engage the Satellite Auto Recording mode.

Press and hold **REC LINK** for about 2 seconds. The "Å" and "⊕" indicators light up and the unit turns off

Press VCR so that the VCR indicator lights up.

the DBS receiver's power is turned on.

Before performing the following steps:

AUDIO/VIDEO INPUT (L-1) connectors.

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.

Set the tape speed.

appliance's power is turned on.

done at the same time.

On the unit

On the Remote

Press SP/EP.

automatically.

3

lights up.

- * Some DBS receivers output signals even if the power is off. Satellite Auto Recording is not possible with those DBS receivers.
- The "&" indicator blinks while Satellite Auto Recording is in progress.
- For timer programing 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** (⁽¹⁾) 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 "">" and ""⊕" 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.

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42 EN 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 Satellite Auto Recording standby and recording mode.You can use the DVD deck when the VCR deck is in the timer standby mode.

OPERATIONS ON DVD DECK

To play back a MP3/JPEG disc, see pages 62 - 67.

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" (IEF 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.

2

Select the DVD deck.

On the unit

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

On the Remote

Press $\ensuremath{\text{DVD}}$ so that the DVD indicator lights up.



Press PLAY (►).

Example: DVD VIDEO

	amb			
Title numb	ber	Chapter number	Elapse	d time

- 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" (ICP 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" (IFP pg. 43) or "Locating a desired scene using the DVD menu" (IFP pg. 43).

Pause playback.

Press PAUSE (II).

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

5 Stop playback.

Press **STOP** (\blacksquare). Press **OPEN/CLOSE** (\triangleq) 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 45.

NOTE:

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



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

DVD Video SVCD Audio CD CD

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.



During playback

Press **RETURN**."PBC" appears on the front



2 Start playback.

- Press the appropriate **number keys**.
- The unit starts playback of the selected item.
 When "NEXT" or "PREVIOUS" appears on the T
- 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 **OK**.

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

- When "0" 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.





OPERATIONS ON DVD DECK (cont.)

Locating the start point of the item or skip the item



Press **SKIP** (I**I**) or **SKIP** (**I**) during playback.

Example:

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

To locate the beginning of item D from the current position, press $SKIP \ (\blacktriangleright)$ once.

Current position



button

• When the specified item is located, playback begins automatically.

High-Speed Search



During playback, press **FF** (►►) for forward high-speed search, or **REW** (◄◄) for reverse high-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 high-speed search, or press and hold **SKIP** (I◄◄) for reverse high-speed 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 High-Speed search mode other than in 1.5x speed search mode.
- During 1.5x speed search of a DVD VIDEO disc, you can hear the played back audio converted into Linear PCM format in stereo. In such a case, the pitch and sound quality may change depending on the disc.
- In case of DVD VIDEO discs formatted in DTS format, SVCD or Audio CD discs, playback sound is not heard during 1.5x speed search.
- When switching to 1.5x speed search during high-speed Search, first press PLAY (►) to return to normal playback, then press FF (►►).

EN 5

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** (\triangleright) changes the playback speed as follows: $1/32 \rightarrow 1/16 \rightarrow 1/4 \rightarrow 1/2$
- Each press of **REW** (◄◄) changes the playback speed as follows (only for DVD VIDEO discs): -1/32→-1/16→-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" or "DISC RESUME". (III) pg. 81)

1 Memorize the resume point.

Press **STOP** (■) during playback.

• "RESUME STOP" appears on the front display panel.



- The unit enters Resume Stop mode and memorise the position where you stop playback as the resume point.
- The unit retains a memory of the resume points of the last 30 discs played back, even though they have been ejected if "RESUME" is set to "DISC RESUME". (IF pg. 81)
- To clear the resume point:
 - When "RESUME" is set to "ON":
 - Press **STOP** (■) in stop mode.
 - Press POWER (し/I) to turn off the unit.
 - Eject the disc.
 - When "RESUME" is set to "DISC RESUME":
 - Set "RESUME" to "OFF". (I grg. 81)
 - Press **STOP** () in stop mode.

2 Resume playback.

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

• "RESUME PLAY" appears on the front display panel.



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.
- After the unit has memorized the resume point for 30 discs, remembering a new resume point will cause the unit to delete the oldest memorized point. Stopping playback of a disc for which a resume point is already stored may change the order in which the points are stored. This may potentially change the order in which points are deleted.
- When the unit memorizes a resume point for a disc, 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 as follows: $1.8x \rightarrow 4x \rightarrow 8x \rightarrow 16x \rightarrow 32x \rightarrow 64x$
- 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 by selecting 1.8x imagination. In such a case, note that both left and right side parts of the picture will also be cropped.
- 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.



• To resume normal playback, press OK.

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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 $\lhd \triangleright$ repeatedly, then press **OK**.



OPERATIONS ON DVD DECK (cont.)

 Each time you press <
 ▷, the setting changes as follows: NONE→ACTION→DRAMA→THEATER→(Back to the beginning)

NONE: ACTION:	No effect 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 10 seconds.

3 Select the effect level.

Press $\triangle \nabla$ to select the desired effect level. (level 1 to 5) • To resume normal playback, press **3D-PHONIC**.

- The 3D Phonic function works correctly only when playing back a DVD VIDEO disc recorded in the Dolby 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 Dolby Digital bitstream signal from the DIGITAL AUDIO OUT connector.
- When 3D Phonic function is activated, Analog Down Mix and D. Range Control functions are disabled. (IP pg. 80)

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VFP function — Adjusting the picture quality



The VFP (Video Fine Processor) function enables you to adjust the picture character according to the type of programing, 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.

1 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
♦ In 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 $\lhd \triangleright$ 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 **OK**.

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

GAMMA (-4 to +4):	Controls brightness of neutral tints while maintaining brightness of dark and bright portions.
BRIGHTNESS (-16 to +16):	Controls screen brightness.
CONTRAST (-16 to +16):	Controls screen contrast.
SATURATION (-16 to +16):	Controls screen color depth.
TINT (-16 to +16):	Controls screen tint.
SHARPNESS (+0 to +3):	Controls screen sharpness.
Y DELAY (-2 to +2):	Controls screen color gap.

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



5 Adjust the parameter.

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

• 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 $\lhd \triangleright$ repeatedly to select "USER 1" or "USER 2" that you have changed the parameters.

<u>48 EN</u> 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.



OPERATIONS ON DVD DECK (cont.)

How to Access the on-screen bar

Press **PLAY SETUP** twice whenever a disc is loaded.

Example: During DVD VIDEO playback

DVD-VIDEO	7.7 Mbps	TITLE	1	СНАР	7	TOTAL	0:27:06	
	⊖ → CHAP.•		2/4	1/	3	<u> </u>		

Example: During Video CD playback

VCD	TRACK 33 TIME	1:23 🕨
	RND. ST	

Contents of the on-screen bar during playback



12 Select this to change subtitle language. (12 pg. 54)

- 13 Select this to change view angle. (IF pg. 55)
- 14 Select this for Program Playback. (12 pg. 53)
- 15 Select this for Random Playback. (EP pg. 53)



Basic operation on the on-screen bar

Example: When selecting the Repeat mode of DVD

During playback or while stopped

Access the on-screen bar.

Press **PLAY SETUP** twice. The on-screen bar appears on the TV screen.

• The currently selected item is highlighted.

DVD-VIDEO	7.7 Mbps	TITLE	1 CHAP	7	TOTAL	0:27:06
	⊖ → CHAP. →		2/4 🔜 1/	3	⇔1/1	
\sim						



Select menu item.

Press ⊲ ▷ to move ⊲ to , then press **OK**. The pop-up window appears under the selected item. • The current setting appears.

DVD-VIC	EO	7.7 Mbps	TITLE	1 CHAP	7 TOT	AL 0:27:06	
	'	Ø 🕨	CHAP. 🔶 📿) 2/4 📖 1	1 /3	1/1	
t t		E					
t	\bigtriangledown						

Select the option.

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

To clear the on-screen bar Press **PLAY SETUP**.

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



Press **PLAY SETUP** twice. The on-screen bar appears on the TV screen.



Press $\triangleleft \triangleright$ to move \bowtie to TIME, then press **OK**.

• Each time you press **OK**, the time information changes as follows;

Example: During DVD playback

🔿 TIME 0:25:58 🛱	REM 0:18:14	⇒ TOTAL 1:25:58
------------------	-------------	-----------------

⇒(T.REM 0:45:41)=	(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 **PLAY SETUP**.

- While playing a Video CD, Audio CD or SVCD, the hour digit indication does not appear.
- While a DVD is stopped, "--:--" appears in the time information display.

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Repeat Playback



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

DVD VIDEO: Audio CD: Video CD/SVCD:

during playback during playback or in stop mode in stop mode or during playback with PBC disactivated

When using the on-screen bar



Access the on-screen bar.

Press **PLAY SETUP** twice. The on-screen bar appears on the TV screen.

Select menu item.

Press $\triangleleft \triangleright$ to move \bowtie to $rac{2}{2}$, then press **OK**.

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

DVD-VID	DEO	7.7 Mbps		TITLE	1	СНАР	7	TOTAL	0:27:06	C
	ථ		CHAP. 🜩) 2	/4	1/	3	≝∢1/1		
-	ے ۲ ۱۱۲ ۲									

OPERATIONS ON DVD DECK (cont.)

Masterpage:Left+



Select the repeat mode.

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

• 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. (ICF pg. 51)
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. (🖙 pg. 51)
OFF:	Each track is played back once.

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

To clear the on-screen bar Press **PLAY SETUP**.

To cancel Repeat Playback

Repeat from step \blacksquare , select "OFF" in step \blacksquare , then press **OK**.

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, then press **OK**.

- To stop Repeat Playback, press STOP (■).
- To cancel Repeat Playback, press **REPEAT** repeatedly until "OFF" appears on the TV screen, then press **OK**.

- 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**.

<u>en 51</u>

A-B Repeat Playback



You can repeat the desired part.

Access the on-screen bar.

Press **PLAY SETUP** twice. The on-screen bar appears on the TV screen.



Select menu item.

Press $\triangleleft \triangleright$ to move \bowtie to $rac{local}{\sim}$, then press **OK**.

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

DVD-VIDEO	7.7 Mbps	TITLE	1 CHAP	7 T	OTAL 0:27:	06 🕨
TIME 🖒	⊖ → CHAP.	• 🔘	2/4 🔜 1	/3	j∕ 1/1	
TI						

Select the repeat mode.

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

Select the start point.

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

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

DVD-VIDEO	7.7 Mbps	TITLE	1	CHAP	7	TOTAL	0:27:06	

TIME	ا م ت	<u>. 🕘 🔶 </u>	CHAP. 🔿	<u>)</u> 2/4	1/3	<u> </u>	



Select the end point.

Press OK 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 **I**, select "OFF" in step **I**, then press **OK**.

• You can also cancel Repeat Playback by pressing SKIP (I

To clear the on-screen bar Press PLAY SETUP.

NOTES:

- 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 during Program and Random Playback.
- "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.



Access the on-screen bar.

Press $\ensuremath{\text{PLAY SETUP}}$ twice. The on-screen bar appears on the TV screen.



Press $\triangleleft \triangleright$ to move \bowtie to $\textcircled{O} \blacklozenge$, then press **OK**.

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

DVD-VIDEO	7.7 Mbps	TITLE	1 CHAP	7 TOTAL	0:27:06	
	_ → CHAP. →		2/4 🔜 1/	3 🅰(1/1		
	TIME_:: 🖓					

Select the time.

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

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 **PLAY SETUP**.

NOTES:

- When "0" is displayed on the TV screen in step **3**, 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, "Q" 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 PBCcompatible Video CD disc without PBC function. • Press **TOP MENU** during playback.

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OPERATIONS ON DVD DECK (cont.)

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Chapter Search

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

Access the on-screen bar.

Select menu item.

Press $\ensuremath{\text{PLAY SETUP}}$ twice. The on-screen bar appears on the TV screen.

2

DVD-VIDEO 7.7 M	ops TITLE	1 CHAP	7 TOTAL	0:27:06
	▶ CHAP. → ①	2/4 🔜 1/3	́∆1/1	
	CHAPTER	L L		

Select the chapter.

Press the **number keys** (0-10) to enter the desired chapter number, then press **OK**.

• 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"**.

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

To clear the on-screen bar Press **PLAY SETUP**.

- When " \heartsuit " is displayed on the TV screen in step **I**, 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 3 depending on the disc.

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Program Playback

DVD Video VIDEO CD SVCD

You can play back up to 99 tracks in the desired order.

Access the on-screen bar.

Press **PLAY SETUP** twice in stop mode.

2

Select the menu item.

Press ⊲ ▷ to move ⊲ to **PROG.**, then press **OK**. • The program table appears under the on-screen bar.

VCD				TRACK 33	TIME	1:23
ТІМЕ	○ 0FF ④ ●	PROG.	RND.) ST		

Select the tracks in the desired order.

Press the appropriate **number keys** to select the tracks.



Examples:

- To select track 5, press the **number key "5"**
- To select track 15, press the **number key "+10"** and **"5"**.
- To select track 25, press **number key "+10"** twice, then "5"

If you have specified a wrong selection

Press **STOP** (■). The last selection programed is erased.

4. Start playback.

Press **PLAY** (►). Playback starts in the selected order.

- When all of the programed tracks have been played back, Program Playback stops, but the programed information remains.
- To stop Program Playback, press STOP (
- To clear all the programed tracks, press **STOP** (■) to stop playback and press **PLAY SETUP** to clear the program table, then press **STOP** (■) again.
- During Program Playback, pressing **SKIP** (►►I) skip to the next selection of the program. Pressing **SKIP** (I◄◄) returns to the beginning of the current selection.

To clear the program table Press **PLAY SETUP**.

NOTE:

Program Playback is not possible depending on the type of disc.

Random Playback



You can play back all the tracks on the disc in random order.

Access the on-screen bar.

Press PLAY SETUP twice in stop mode.



Select the menu item.

Press $\triangleleft \triangleright$ to move \bowtie to RND., then press OK. • Playback starts in random order.

VCD	TRACK 33 TIME 1:23
ТІМЕ	

- To stop and quit Random Playback, press **STOP** (■).
- To cancel Random playback, repeat step **2** during Random Playback. Normal playback resumes at the current point.

To clear the on-screen bar Press **PLAY SETUP**.

- The same track will not be played back more than once during Random Playback.
- Random playback is canceled when all the tracks have been played back.

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Subtitle Selection



You can select subtitle language.

During playback

When using the on-screen bar

Access the on-screen bar.

Press $\ensuremath{\text{PLAY SETUP}}$ twice. The on-screen bar appears on the TV screen.



Select menu item.

Press $\triangleleft \triangleright$ to move \bowtie to \blacksquare , then press **OK**.

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

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

DVD-VIDEO	7.7 Mbps	TITLE	1 CH	\P 7	TOTAL	0:27:06
	F 🕘 🔹 CHAP.	• 🕥	2/4) 1/3	[™] (1/3	3
				ENGL	ISH (3

OPERATIONS ON DVD DECK (cont.)

Masterpage:Left+



Select the subtitle language.

Press $\bigtriangleup \nabla$ repeatedly to select the desired subtitle language, then press OK.

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

To clear the on-screen bar Press **PLAY SETUP**.

NOTES:

• For DVD VIDEO

- Some subtitle languages are abbreviated in the pop-up window. See "Language Code List" (IIP pg. 23).
- 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 "\overline" models 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.



2

Select the subtitle language.

Press $\triangle \nabla$ or **SUB TITLE** repeatedly to select the desired subtitle language, then press **OK**.

- 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 **2**, subtitle language is not recorded.



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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, " $\stackrel{\text{\tiny CD}}{\longrightarrow}$ " appears on the TV

If the disc contains "multi-angle" parts, " 🕮 " 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 **PLAY SETUP** twice. The on-screen bar appears on the TV screen.

2 Select menu item.

Press $\triangleleft \triangleright$ to move \bowtie to $\stackrel{\textbf{CM}}{\cong}$, then press **OK**.

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

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

DVD-VIDEO	7.7 Mbps	TITLE 1	СНАР	7 TOTAL	0:27:06	2
	F 🕘 🌩 CHAP.	• 2/4	4 🔜 1/3	∰(1/:	3	
						ζ
					\bigtriangledown	

Select the view angle.

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

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

To clear the on-screen bar Press **PLAY SETUP**.

NOTE:

When " \mathfrak{O} " appears on the TV screen in step **\mathfrak{G}**, 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 $riangle \nabla$ or **ANGLE** repeatedly to select the desired view angle, then press **OK**.

- 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)



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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 **PLAY SETUP** twice. The on-screen bar appears on the TV screen.

OPERATIONS ON DVD DECK (cont.)

Masterpage:Left+

2 Sele

Select menu item.

Press <
▷ to move IS to
The following pop-up window appears under the selected item.

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

DVD-VIDEO	7.7 Mbps	TITLE 1 CHAP 7 TOTAL 0:27:06
	F 🕘 🗣 CHAP.	◆ <u>2/4</u> m 1/3 ⇔ 1/3
		\bigtriangledown



Select the audio language.

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

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

To clear the on-screen bar Press **PLAY SETUP**.

NOTES:

- Some audio languages are abbreviated in the pop-up window. See "Language Code List" (23)
- If "♥" appears on the TV, the current scene does not contain plural audio languages.

When using the A.MONITOR button:



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, then press **OK**.

- 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. 23).

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Audio Channel Selection



When you play certain karaoke (DVD/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 **PLAY SETUP** twice. The on-screen bar appears on the TV screen.

2 Select menu item.

- Press $\triangleleft \triangleright$ to move \bowtie to \bigcirc , then press **OK**.
- The following pop-up window appears under the selected item.

Example: "ST" (stereo) is selected.

VCD	TRACK 14 TIME 4:58
TIME ⇐ OFF 🕑 ➡ PROG. RND.	රා 1/3
	डेंग र

3 Select the audio channel.

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

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

To clear the on-screen bar Press **PLAY SETUP**.

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.





Select the audio channel.

Press $riangle \nabla$ or **A.MONITOR** repeatedly to select the desired audio channel, then press **OK**.

- 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	γ.

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.

58 EN **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 (心川).



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.

OPERATIONS ON DVD DECK (cont.)

Access the DVD Set Up menu.

1 Press SET UP MENU.

2 Press $\triangleleft \triangleright$ to select " / OTHERS".

Д Access the "PARENTAL LOCK" menu.

Press $\bigtriangleup \bigtriangledown$ repeatedly to move ^{III} to "PARENTAL

- LOCK", then press OK.
- 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 riangle
abla repeatedly to move 尽 to "COUNTRY CODE", then press OK.





Select the country code.

Press $\triangle \nabla$ repeatedly to move \square to select the country code, then press OK. • See "Country/Area Code List





Select the Level.

for Parental Lock" (IF pg. 60). ● The I moves to "SET LEVEL".

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

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



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8 Enter the password.

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

● The 尽 moves to "EXIT".





Return to the OTHERS menu screen.

Press OK.

The " OTHERS" menu resumes.

To return to the normal screen Press **SET UP MENU**.

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 MENU.

- 2 Press \triangleleft ▷ to select "𝔅 OTHERS".
- $\ \ \,$ Press $riangle
 abla \ \ \,$ repeatedly to move $\ \ \,$ to "PARENTAL
- LOCK", then press OK.
 The "PARENTAL LOCK" sub-menu;
- The "PARENTAL LOCK" sub-menu appears on the TV screen.
 You can only move

 to "PASSWORD" or to "EXIT" before

you enter your password.

2 Enter the password.

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

password, then press **OK**. If you enter the wrong password, "WRONG! RETRY..." appears at the bottom of the TV screen. Enter the correct password.

PARENTAL LO	ск		0.7	
COUNTRY	CODE	US		
SET LEVE	L	4		
PASSWOP	D		<u>}</u>	
EXIT				
SELECT A	NEW PASSWOR	2 00500	0. 0 KEV	
oĸ י\$	TO EXIT, PRESS			

3

Change the country code.

Press $riangle \nabla$ to select the country code, then press **OK**.

See "Country/Area Code List for Parental Lock" (IF pg. 60).
When you change the country code, you must select the level.

Change the level.

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



Enter your new password.

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

- 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 MENU.

NOTES:

- When you enter the wrong password more than 3 times in step 2 on the left column, the arrow moves to "EXIT" automatically and △▽ 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.

- 1 Place the disc in the disc trav.
- If the disc rated higher than the selected level, the following screen appears.
- Press △▽ to move ⋈ to "TEMPORARY RELEASE", then press OK.
- If you select "NOT RELEASE", you cannot play back that disc.

2 Enter the password.

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

- 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.

NOTES:

- When you enter the wrong password more than 3 times in step 2 above, the arrow moves to "NOT RELEASE" automatically and △▽ do not work. In such a case, press OK, then press OPEN/CLOSE (▲) to remove the disc.
- If you forget your password, enter "8888" in step 2.

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OPERATIONS ON DVD DECK (cont.)

Country/Area Code List for Parental Lock

AD	Andorra	ES	Spain
AE	United Arab Emirates	ĒT	Ethiopia
		FI	
AF	Afghanistan		Finland
AG	Antigua and Barbuda	FJ	Fiji
Al	Anguilla	FK	Falkland Islands (Malvinas)
AL	Albania	FM	Micronesia (Federated States of)
AM	Armenia	FO	Faroe Islands
AN	Netherlands Antilles	FR	France
AO	Angola	FX	France, Metropolitan
AQ	Antarctica	GA	Gabon
AR	Argentina	GB	United Kingdom
AS	American Samoa	GD	Grenada
AT	Austria	GE	Georgia
AU	Australia	GF	French Guiana
AW	Aruba	GH	Ghana
AZ	Azerbaijan	GI	Gibraltar
BA	Bosnia and Herzegovina	GL	Greenland
BB	Barbados	GM	Gambia
BD	Bangladesh	GN	Guinea
	Dalaine	GP	
BE	Belgium		Guadeloupe
BF	Burkina Faso	GQ	Equatorial Guinea
BG	Bulgaria	GR	Greece
BH	Bahrain	GS	South Georgia and the South Sandwich Islands
BI	Burundi	GT	Guatemala
BJ	Benin	GU	Guam
BM	Bermuda	GW	Guinea-Bissau
BN	Brunei Darussalam	GY	Guyana
BO	Bolivia	HK	Hong Kong
BR	Brazil	HM	Heard Island and McDonald Islands
BS	Bahamas	HN	Honduras
BT			
	Bhutan	HR	Croatia
BV	Bouvet Island	HT	Haiti
BW	Botswana	HU	Hungary
BY	Belarus	ID	Indonesia
BZ	Belize	IE	Ireland
CA	Canada	IL	Israel
CC	Cocos (Keeling) Islands	IN	India
CF	Central African Republic	IO	British Indian Ocean Territory
CG	Congo	IQ	Iraq
CH	Switzerland	IR	Iran (Islamic Republic of)
CI	Côte d'Ivoire	IS	Iceland
CK	Cook Islands	IT	Italy
CL	Chile	JM	Jamaica
СМ	Cameroon	JO	Jordan
CN	China	JP	Japan
CO	Colombia	KE	Kenya
CR	Costa Rica	KG	Kyrgyzstan
CU	Cuba	КОКН	Cambodia
	-		
CV	Cape Verde	KI	Kiribati
CX	Christmas Island	KM	Comoros
CY	Cyprus	KN	Saint Kitts and Nevis
CZ	Czech Republic	KP	Korea, Democratic People's Republic of
DE	Germany	KR	Korea, Republic of
DJ	Djibouti	KW	Kuwait
DK	Denmark	KY	Cayman Islands
DM	Dominica	KZ	Kazakhstan
DO	Dominican Republic	LA	Lao People's Democratic Republic
DZ	Algeria	LB	Lebanon
EC	Ecuador		
EE	Estonia		
EG	Egypt		
EH	Western Sahara		
ER	Eritrea		
1			
L		1	

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LC	Saint Lucia	SA	Saudi Arabia
LI	Liechtenstein	SB	Solomon Islands
LK	Sri Lanka	SC	Seychelles
LR	Liberia	SD	Sudan
LK	Lesotho	SE	Sweden
LT	Lithuania	SG	Singapore
LU	Luxembourg	SH	Saint Helena
LV	Latvia	SI	Slovenia
LY	Libyan Arab Jamahiriya	SJ	Svalbard and Jan Mayen
MA	Morocco	SK	Slovakia
MC	Monaco	SL	Sierra Leone
MD	Moldova, Republic of	SM	San Marino
MG	Madagascar	SN	Senegal
MH	Marshall Islands	SO	Somalia
ML	Mali	SR	Suriname
MM	Myanmar	ST	Sao Tome and Principe
MN	Mongolia	SV	El Salvador
MO	Macau	SY	Syrian Arab Republic
MP	Northern Mariana Islands	SZ	Śwaziland
MQ	Martinique	TC	Turks and Caicos Islands
MR	Mauritania	TD	Chad
MS	Montserrat	TF	French Southern Territories
MT	Malta	TG	
MU	Maita Mauritius	TH	Togo Thailand
MV	Maldives	TJ	Tajikistan
MW	Malawi	TK	Tokelau
MX	Mexico	TM	Turkmenistan
MY	Malaysia	TN	Tunisia
MZ	Mozambique	TO	Tonga
NA	Namibia	TP	East Timor
NC	New Caledonia	TR	Turkey
NE	Niger	TT	Trinidad and Tobago
NF	Norfolk Island	TV	Tuvalu
NG	Nigeria	TW	Taiwan, Province of China
NI	Ničaragua	TZ	Tanzania, United Republic of
NL	Netherlands	UA	Ukraine
NO	Norway	UG	Uganda
NP	Nepal	UM	United States Minor Outlying Islands
NR	Nauru	US	United States
NU	Niue	UY	Uruguay
NZ	New Zealand	UZ	Uzbekistan
OM	Oman	VA	Vatican City State (Holy See)
PA	Panama	VC	Saint Vincent and the Grenadines
PE	Peru	VE	Venezuela
PF	French Polynesia	VC	Virgin Islands (British)
PF	Papua New Guinea	VG	Virgin Islands (U.S.)
PG PH		VI VN	Virgin Islands (U.S.) Viet Nam
	Philippines		
PK	Pakistan	VU	Vanuatu
PL	Poland Spint Diama and Minuslan	WE	Wallis and Futuna Islands
PM	Saint Pierre and Miquelon	WS	Samoa
PN	Pitcairn	YE	Yemen
PR	Puerto Rico	ΥT	Mayotte
PT	Portugal	YU	Yugoslavia
PW	Palau	ZA	South Africa
PY	Paraguay	ZM	Zambia
QA	Qatar	ZR	Zaire
RÈ	Réunion	ZW	Zimbabwe
RO	Romania		
RU	Russian Federation		
RW	Rwanda		
		J	

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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.

OPERATIONS ON DVD DECK (cont.)

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.

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MP3 Playback

MP3

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 (Ⅱ), SKIP (I◄<) and SKIP (►►I) buttons function the same as with Audio CD discs, however, **REW** (◄<) and **FF** (►►) buttons do not function for MP3 playback.
- Resume playback, Program playback or Random playback also does not function for MP3 playback.

Using the MP3 control display



Turn on the unit.



iorn on the unit.



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.

۴

Calact the mode

Select the mode.

Be sure to set "MP3/JPEG" to "MP3" before loading a disc. (\mathbb{IF} pg. 79)

• You cannot access the DVD Set Up screen and "\O" appears on the TV screen if a disc is already placed.

4. 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" (r 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. (IF pg. 62)

5 Select the group.

Press $\triangleleft \triangleright$ to select the desired group.



Start playback.

Press $\triangle \nabla$ to select the desired track, then press **OK** 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** (\blacksquare). Press **OPEN/CLOSE** (\triangleq) on the DVD deck to open the disc tray, then remove the disc.

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Group/track selection

To start playback by specifying the group/track number 1 Press **TITLE**.

- Press the number keys (0-10, +10) to enter the group number.
- Press the number keys (0-10, +10) to enter the track number.

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.

• The entered number appears in the track number indication and playback starts from the track you have specified.

OPERATIONS ON DVD DECK (cont.)

Repeat Playback

You can repeat playback of the current group, track or all groups. • While MP3 control display is on the TV:

Access the repeat mode.

Press PLAY SETUP during playback.

• The current repeat mode is displayed on the MP3 control display.

2 Select the mode.

Press $\bigtriangleup \bigtriangledown$ to select the desired repeat mode, then press OK.

• Each time you press **REPEAT**, the mode changes as follows: TRACK \rightarrow GROUP \rightarrow ALL \rightarrow OFF (No indication) \rightarrow (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** (■).

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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 JPEG?

JPEG is the abbreviation of "Joint Photographic Expert Group." JPEG 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 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.



<u>66 en</u> JPEG Playback

JPEG

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 (II), SKIP (I◄◄) and SKIP (►►I) buttons function the same as with Audio CD discs, however, REW (◄◄) and FF (►►) buttons do not function for JPEG playback.
- Resume playback, Program playback or Random playback also does not function for JPEG playback.

OPERATIONS ON DVD DECK (cont.)

Masterpage:Left+

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Using the JPEG control display



Turn on the unit.



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.

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Select the mode.

Be sure to set "MP3/JPEG" to "JPEG" before loading a disc. (\square pg. 79)

• You cannot access the DVD Set Up screen and "Q" appears on the TV screen if a disc is already placed.

4. 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" (r 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. (IP pg. 65)

5 Select the group.

Press $\triangleleft \triangleright$ to select the desired group.

6 Start playback.

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

- You can skip a file across a group. Press SKIP (►►I) 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 **OK** to show the selected file.

Pause playback.

Press PAUSE (II).

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

8 Stop playback.

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



Repeat Playback

You can repeat playback of the current group, file or all groups. • While JPEG control display is on the TV:

Access the repeat mode.

Press **PLAY SETUP** while the JPEG Control screen is displayed.

• The current repeat mode is displayed on the JPEG control display.



Press $\bigtriangleup \nabla$ to select the desired repeat mode, then press OK.

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

	All files of the current group are played back repeatedly.
	All files are played back repeatedly.
OFF (No indication):	Each file is played back once.

3 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 quit 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** (■).

Zooming

Press **ZOOM** during playback.

- When you want to zoom the picture during slide-show playback, first press PAUSE (II), then press ZOOM.
- For details, refer to "Zooming" (\square pg. 45).



Group/file selection

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

- 1 Press **TITLE**.
- Press the **number keys** (0-10, +10) to enter the group number.
- ③ Press the **number keys** (0-10, +10) to enter the file number.

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.
• TI I'I I	

- The slide-show playback starts from the file you have
- specified.
- To display only the selected file, then press **OK**. To start slideshow playback from that file, press **OK** again.

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Edit From A

Camcorder

 \square

AUX

Recorder

JVC

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+ +

(2) (3)

 $\overline{4}$

7 (8) (9)

-

(5) (6)

+

EDITING (VCR DECK)

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.

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.
- You can also use the AUDIO/VIDEO INPUT connectors on the rear panel.



VCR

CH

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.

5

Set the unit's input mode.

Press AUX (number key "0") and/or CH to select "F-1" for the front AUDIO/VIDEO input connectors, "L-1" for the rear AUDIO/VIDEO INPUT connectors, depending on the connectors being used.

Set the edit mode.

See "PICTURE CONTROL" on page 76.



Engage the Record Pause mode.

Use PLAY (\blacktriangleright) , REW $(\triangleleft \triangleleft)$, or FF $(\triangleright \triangleright)$ to locate the point where you start recording, then press and hold **PAUSE** (III) 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.

NOTES:

- 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.

0000000 To PAUSE AUDIO input connector VIDEO input Audio/video cable (not supplied) To Audio/VIDEO only) Output connectors --Camcorder -010 ∞⊲⊂∎∎∎ To EDIT

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Player



Mini-plug cable (not provided) (JVC camcorder

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en **69**

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.

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.

• When you use your unit as the recording deck, you can also use the AUDIO/VIDEO input connectors on the front panel.

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 input mode of recording deck.

With this video unit, press AUX (**number key "0"**) and/or **CH** to select "F-1" for the front AUDIO/VIDEO input connectors, "L-1" for the rear AUDIO/VIDEO INPUT connectors, depending on the connectors being used.

• When using another recorder as the recording deck, refer to its instruction manual.

4. Set the edit mode.

See "PICTURE CONTROL" on page 76.

5 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. (IP pg. 76)

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<u>70 EN</u> 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.



EDITING (VCR DECK) (cont.)

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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.
- Press OPEN/CLOSE (▲) on the DVD deck to close the disc tray.



Prepare the VCR deck for dubbing.

1 Press VCR.

- 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 (■).



Prepare the DVD deck for dubbing.

1 Press DVD.

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

4. Start dubbing.

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

• "DUB" lights on the front display panel.



End dubbing.

Press STOP ().

- Be sure to press **STOP** (■) while the VCR indicator lights up on the unit.
- If you press **STOP** (■) or **EJECT** (▲) with the DVD deck selected, the dubbing stopped, but the opening screen is also recorded.

- You cannot start dubbing when the scan mode is set to the progressive mode. Set it to the interlace mode. (IF pg. 82)
- Set "ON SCREEN GUIDE" to "OFF" (IP pg. 81) 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". (IF pg. 76)

EN

EDITING (DVD DECK)

Digital Audio Dubbing

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



Note for connection: Remove the connector cover from the unit and remove the protection cap from the cable. 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**

Make connections.

Connect the optical 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 (■).
- ③ Press **REW** (◀◀) a little, then press **PLAY** (►) to start playback.
- ▲ Press PAUSE (III) to pause playback a little before the start point.

Prepare the audio device for dubbing.

Select the input mode.

Start dubbing.

Press **PLAY** (►) to start playback on the DVD deck.
 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.
- Ýou can also dub a Video CD or SVCD. Set "DÍGITAL AUDIO OUTPUT" to "PCM ONLY". (IIF pg. 79)



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.





REMOTE

Masterpage:Left0

On the Remote

Keep pressing VCR down during steps $\square - \square$.



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 **OK** to set the code.

On the unit



Press POWER (U/I).



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:

Once you unplug the end of the mains power cord from the mains, the remote control code is back to A.

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en *73*

TV Multi-Brand Remote Control

Your Remote can operate the basic functions of your TV set. In addition to JVC TVs, other manufacturer's TVs can also be controlled.

Before performing the following steps:

- Turn off the TV using its Remote.
- Slide the TV/VCR/DVD switch to the left.



IMPORTANT

Although the supplied remote control unit is compatible with JVC televisions, as well as many other models, <u>it may not work</u> with your TV, or in some instances, may have limited function capability.

Set the TV brand code.

Keep pressing VCR down during step **1**. Enter your TV's brand code using the **number keys**, then press **OK**.

Press **POWER** (\bigcirc /I) on the unit's Remote to turn on the TV and try operations (\square step **2**).

- Once you have set the remote control to operate the TV, you do not have to repeat this step until you replace your Remote's batteries.
- Some brands of TV have more than one code. If the TV does not function with one code, try entering another.

2 Operate the TV.

Press the corresponding button: **POWER** ((0/1)), **TV/VCR**, **TV/VCR CH +/–**, **TV VOL+/–** (Volume), **MUTE** (TV Muting), **number keys**.

• For some brands of TV, you must press **OK** after having pressed the **number keys**.

BRAND NAME	CODE
JVC	01, 03
HITACHI	10
MAGNAVOX	02
MITSUBISHI	03
PANASONIC	04, 11
RCA	05
SHARP	06
SONY	07
SAMSUNG	12
SANYO	13
SEARS	13
TOSHIBA	08
ZENITH	09



REMOTE (cont.)

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 optical 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". (III) pg. 79)
- For DTS sound, set "DIGITAL AUDIO OUTPUT" to "STREAM/ PCM". (II] pg. 79)

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.

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EN

SUBSIDIARY SETTINGS

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 76 to 77.

Turn on the unit.

Press **POWER** (Ů/I).



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.



Access the Main Menu screen.

Press SET UP MENU.

Δ Access the Function Set screen.

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



Select the mode.

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

FUNCTION - PICTURE CONTROL NORM SUPERIMPOSE ON AUTO SP-EP TIMER OFF VIDEO STABILIZER OFF BLUE BACK ON 2ND AUDIO RECORD OFF NEXT PAGE	•	PREVIOUS PAGE +AUDIO MONITOR AUTO POWER OFF	OFF
SELECT WITH (▲,▼) AND (OK) PRESS (MENU) TO END		SELECT WITH (▲,▼) AND (C PRESS (MENU) TO END	IK)

Select the mode setting. 6

Press **OK** or \triangleright .



Return to the normal screen.

Press SET UP MENU.



SUBSIDIARY SETTINGS (cont.)

Masterpage:Left+

 (\mathbf{e})

 \ast The default setting is \boldsymbol{bold} in the table below.

PICTURE CONTROL NORM	This feature h preference. N	elps you to adjust the playback picture quality according to your formally select "NORM".		
EDIT	NORM:	Picture quality is adjusted automatically.		
SOFT SHARP	EDIT:	Minimizes picture degradation during editing (recording and playback).		
	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-coloured surfaces such as cartoons.		
	select anothe	elect "EDIT", "SOFT" or "SHARP", the selected mode will not change until you er mode. elect "EDIT" to dub tapes, be sure to select "NORM" after you finish dubbing		
SUPERIMPOSE	When this fur screen. Mess	nction is set to "ON", various operational indicators appear on the TV ages appear in the selected language. (🖙 pg. 20)		
OFF	"OFF" before	ack, the operation mode indicators may be disturbed depending on the type of		
■ 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 program of 140 minutes in length onto a 120-minute tape		
	Approximate	Approximately 110 minutes Approximately 30 minutes		
		mode EP mode		
	-	Total 140 minutes		
	Make sure yo	Make sure you set this function to "ON", before the timer-recording starts.		
	and those the this case, ma timer prograu In order to en recorded sec There may be switches fror The Auto SP-	rogramed the unit to timer-record 2 or more programs, the second program ereafter may not fit on the tape if you set "AUTO SP→EP TIMER" to "ON". In ke sure the mode is not engaged, then set the tape speed manually during ming. nsure that the recording fits on the tape, this feature may leave a slight non- tion at the end of the tape. e some noise and sound disturbance at the point on the tape where the unit n SP to EP mode. →EP Timer feature is not available during ITR (Instant Timer Recording), and ill not work properly on the following tapes: T(ST)-30, T(ST)-60, T(ST)-90, and		

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 \ast The default setting is \boldsymbol{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	When this function is set to "ON", the TV screen becomes all blue when receiving a channel not in use.	
OFF	NOTE: When you want to receive an unstable channel with poor signals, set this function to "OFF".	
2ND AUDIO RECORD 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	This unit can record two sound tracks simultaneously (normal and Hi-Fi) on a 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".	
MIX	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. (IF pg. 32) 	
■ 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.	

SUBSIDIARY SETTINGS (cont.)

Mode Set (DVD deck)

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- 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 79 to 81.

🛦 LANGUAGE	MENU LANGUAGE (IIF pg. 22) AUDIO LANGUAGE (IIF pg. 22) SUBTITLE (IIF pg. 22) ON SCREEN LANGUAGE (IIF pg. 21)	
	MONITOR TYPE (IIF pg. 18, 79) PICTURE SOURCE (IIF pg. 79) SCREEN SAVER (IIF pg. 79) MP3/JPEG (IIF pg. 79)	
NUDIO	DIGITAL AUDIO OUTPUT (III) pg. 79) ANALOG DOWN MIX (III) pg. 80) D. RANGE CONTROL (III) pg. 80) OUTPUT LEVEL (III) pg. 80)	
🌶 OTHERS	RESUME (III) pg. 81) ON SCREEN GUIDE (III) pg. 81) PARENTAL LOCK (III) pg. 58)	

• 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 (U/I).



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 MENU.
- Press $\triangleleft \triangleright$ to select " OTHERS".
- Each time you press the button, the setup menus change as follows;



▲ LANGUAGE→ PICTURE→ AUDIO → \not OTHERS → (Back to the beginning)



Select the mode.

Press $riangle \nabla$ to move $\ensuremath{\overline{\ltimes}}$ to "RESUME", then press **OK**.



Select the mode setting.

Press $\bigtriangleup \nabla$ to select "ON", then press OK.

6 Ret

Return to the normal screen.

Press SET UP MENU.

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Picture Settings

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

 MONITOR TYPE 16:9 NORMAL 16:9 AUTO 4:3 LB 4:3 PS 	You can select the monitor type depending the TV used when you play back DVD VIDEO discs recorded for wide-screen TVs. For more details, refer to "Monitor Set (DVD deck)" (IF pg. 18)	
■ PICTURE SOURCE VIDEO (NORMAL) VIDEO (ACTIVE) FILM AUTO	 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". VIDEO (NORMAL): Suitable for playing back a video source disc with relatively a few moments. VIDEO (ACTIVE): Suitable for playing back a video source disc with relatively a lot of movements. FILM: Suitable for playing back a film or progressive source disc. 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. 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. NOTE: This function is not available for Audio CDs and MP3 discs.	
MP3/JPEG MP3 JPEG	You can select files to play back, when both MP3 files and JPEG files are recorded on a disc. MP3: Select this to play back MP3 files. JPEG: Select this to play back JPEG files. NOTE: You cannot access the DVD Set Up screen and "Q" appears on the TV screen if a disc is already placed.	

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 OUTconnector.	
	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.	
	STREAM/PCM: Select this when you connect the unit's DIGITAL AUDIO OUT connector to the digital input connector of an amplifier with a b	

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SUBSIDIARY SETTINGS (cont.)

ANALOG 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 analogue audio output signal from the AUDIO OUTPUT connectors (DVD) when playing back a DVD VIDEO disc recorded with surround multichannel audio. DOLBY SURROUND:		
	STEREO:	Select this when you enjoy multichannel surround audio by connecting the unit's analogue AUDIO OUTPUT connector (DVD) to a surround decoder or an internal amplifier. Select this when you enjoy conventional 2-channel stereo audio by connecting the unit's analogue 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 "ANALOG I activated. (🖙 pg	DOWN MIX" function does not work when the 3D Phonic function is g. 46)	
 D. RANGE CONTROL WIDE RANGE NORMAL TV MODE 	The dynamic range (the difference between the loudest sound and the quietest one) can be compressed during playback of a program encoded in Dolby Digital format. This function takes effect when a DVD VIDEO disc recorded in Dolby Digital format is played back at low or middle volume. WIDE RANGE: Select this to inactivate this function when you enjoy wide dynamic range program.		
	NORMAL : TV MODE:	Normally select this setting to activate this function. Select this when you hear the sound through the TV's speaker(s).	
	 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. (CF pg. 46) 		
OUTPUT LEVEL STANDARD LOW	connected A/V	the output level of analog audio to accommodate the unit to the ' equipment. : Normally select this. The output level of analog audio is lowered.	

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Dischard d'are	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 linea 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		
MP3 disc	Linear PCM		

NOTES:

- The unit is not equipped with the DTS 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 OFF DISC RESUME	 When this function is set to "ON", you can use the resume function. (IF) pg. 45) ON: You can start playback from the resume point of the placed disc. OFF: You cannot use the resume function. DISC RESUME: The unit retains a memory of the resume points of the last 30 discs played back, even though they have been ejected. 	
	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.	

<u>82 en</u> 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** (((t)/t)) 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** (U/I) 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.

SUBSIDIARY SETTINGS (cont.)

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 interlayed 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.

TROUBLESHOOTING

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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 discharged.	Replace the dead batteries with new ones.

TAPE TRANSPORT (VCR deck)

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
1. During recording, the tape does not run. "O" lights up 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.
2. 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." (IEF pg. 13).
	 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.	_
4. Noise appears during normal playback.	• The automatic tracking mode is engaged.	Try manual tracking. (🕼 pg. 32)
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. (🖙 pg. 32)

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TROUBLESHOOTING (cont.)

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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. " \circ " 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". (🖙 pg. 5)
	• This type of the disc cannot be played back.	See "Unplayable Discs" (🖙 pg. 5).
	• The disc is not placed properly.	Remove the disc, then place the disc properly in the disc tray. (IF 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 (ICF pg. 59), or change the set level (ICF pg. 59).
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. (\mathbb{L} pg. 43)
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. (EF pg. 54)
	 A-B Repeat Playback is in progress. (IF) pg. 51) 	The subtitles recorded around A-B point may not appear.
9. Angle cannot be changed.	• The scene is not recorded from the multiple angles.	_

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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 MP3/JPEG setting is set to "JPEG".	When both MP3 files and JPEG files are recorded to a disc, set "MP3/JPEG" to "MP3" to play MP3 files. (IP pg. 79)
3. 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. (C3 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 MP3/JPEG setting is set to "MP3".	When both MP3 files and JPEG files are recorded to a disc, set "MP3/JPEG" to "JPEG" to play JPEG files. (27 pg. 79)

RECORDING (VCR deck)

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
1. 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" or "L-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" or "L-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" or "L-1".
5. "O" 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.

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TROUBLESHOOTING (cont.)

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TIMER RECORDING (VCR deck)

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
1. 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 programing is not possible.	• Timer recording is in progress.	Timer programing can't be performed while a timer recording is in progress. Wait until it finishes.
 "℗" 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.
 "O", "O" and "▷" on the front display panel won't stop blinking. 	• 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 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. "❷" 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 programed incorrectly.	Check the programed data and re- program 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 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.

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OTHER PROBLEMS

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
1. 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. (IF pg. 27)
4. The channel cannot be changed.	• Recording is in progress.	Press PAUSE (II) to pause the recording, change channels, then press PLAY (>) to resume recording.
 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.

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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.

QUESTIONS AND ANSWERS

TIMER RECORDING

- **Q.** "○" and "④" 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

GENERAL

Power requirement : AC 110 – 220 V \sim , 50 Hz/60 Hz Power consumption Power on : 25 W Power off : 4.9 W

Temperature : 5°C to 40°C Operating : -20°C to 60°C Storage Operating position : Horizontal only Dimensions (WxHxD) : 435 mm x 93 mm x 272 mm Weight : 4.4 kg : VHS NTSC standard Format Maximum recording time : 210 min. with ST-210 video cassette (SP) (EP) : 630 min. with ST-210 video cassette

VIDEO/AUDIO (VCR deck)

: NTSC colour signal and EIA			
monochrome signal, 525 lines/			
60 fields			
: DA4 (Double Azimuth) head helical			
scan system			
Signal-to-noise ratio: 45 dB			
Horizontal resolution			
: 230 lines			
: 70 Hz to 10,000 Hz (Normal audio)			
20 Hz to 20,000 Hz (Hi-Fi audio)			
: RCA connectors:			
IN x 2, OUT x 1			

VIDEO/AUDIO (DVD deck)

Signal system : NTSC : DVD (12 cm, 8 cm) Applicable disc CD (12 cm, 8 cm) Audio characteristics DVD : 4 Hz – 22 KHz Frequency response ĊD : 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 : (COAXIAL) 0.5 Vp-p/75 ohm **Digital Audio** (OPTICAL) -21 dBm to -15 dBm (peak)

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
	: Channel 3 or 4 (switchable; preset to Channel 3 when shipped)

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.

 $\dot{\text{E.}}$ & O.E. Design and specifications subject to change without notice.

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