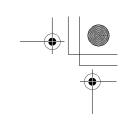


JVC



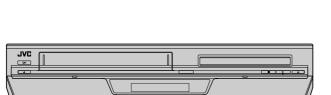


暫定版 Version 2 2004.10.13

DVD PLAYER & VIDEO CASSETTE RECORDER

HR-XV48E















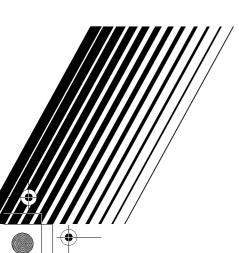




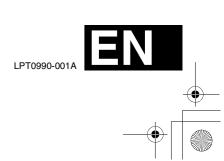








INSTRUCTIONS









Safety Precautions

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

WARNING: DANGEROUS VOLTAGE INSIDE

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

CAUTION

- When you are not using the unit for a long period of time, it is recommended that you disconnect the power cord from the mains outlet.
- Dangerous voltage inside. Refer internal servicing to qualified service personnel. To prevent electric shock or fire hazard, remove the power cord from the mains outlet prior to connecting or disconnecting any signal lead or aerial.

WARNING (VHS deck only)

There are two different types of SECAM colour systems: SECAM-L, used in FRANCE (also called SECAM-West), and SECAM-B, used in Eastern European countries (also called SECAM-East).

- This unit can also receive SECAM-B colour television signals for recording and playback.
 Recordings made of SECAM-B television signals produce
- Recordings made of SECAM-B television signals produce monochrome pictures if played back on a video recorder of SECAM-L standard, or do not produce normal colour pictures if played back on a PAL video recorder with SECAM-B system incorporated (even if the TV set is SECAMcompatible).
- SECAM-L prerecorded cassettes or recordings made with a SECAM-L video recorder produce monochrome pictures when played back with this unit.
- This unit cannot be used for the SECAM-L standard. Use a SECAM-L recorder to record SECAM-L signals.

IMPORTANT

- Please read the various precautions on pages 2 and 3 before installing or operating the unit.
- It should be noted that it may be unlawful to re-record prerecorded tapes, DVDs, or discs without the consent of the owner of copyright in the sound or video recording, broadcast or cable programme and in any literary, dramatic, musical, or artistic work embodied therein.

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

Use only discs marked with the following.



DVD VIDEO (8 cm /12 cm disc)



Video CD (8 cm /12 cm disc) COMPACT DIGITAL AUDIO

Audio CD (8 cm /12 cm disc)



Super Video CD (8 cm /12 cm disc)









VHS SQPB HIEL SHOWVIEW

- Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.
- "DTS" and "DTS 2.0+ Digital Out" are trademarks of Digital Theater Systems, Inc.
- Cassettes marked "VHS" (or "S-VHS") can be used with this video cassette recorder. 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 in the SP mode with regular VHS resolution.
- HQ VHS is compatible with existing VHS equipment.
- SHOWVIEW is a trademark of Gemstar Development Corporation. The SHOWVIEW system is manufactured under licence from Gemstar Development Corporation.
- This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.
- "Official DivX Certified™ product"
 "Plays DivX® 5, DivX® 4, DivX® 3, and DivX® VOD video content (in compliance with DivX Certified™ technical requirements)"
 - "DivX, DivX Certified, and associated logos are trademarks of DivXNetworks, Inc. and are used under license."

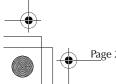
For Italy:

"It is declared that this product, brand JVC, conforms to the Ministry Decree n. 548 of 28 Aug.'95 published in the Official Gazette of the Italian Republic n. 301 of 28 Dec.'95"

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

Video tapes recorded with this unit in the LP (Long Play) mode cannot be played back on a single-speed video recorder. (VHS deck only)

CAUTION:Visible and invisible | ADVARSEL:Synlig og usynlig laser ardiation when open and laser radiation when open and lasersträling när maskinen er lasersträled or defeated. | ADVID DIRECT EXPOSURE TO | Undgå direkte eksponering til | Urkopplad. | Betrakta ej lasersäteilylle. Vältä säteen | BEAM. (e) | sträling. (d) | sträling. (e) | Sträling. (e)

















Masterpage:Right-No-Heading

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 control or video cassette.

- 1. DO NOT place the unit
 - in an environment prone to extreme temperatures or humidity.
 - in direct sunlight.
 - in a dusty environment.
 - in an environment where strong magnetic fields are
 - on a surface that is unstable or subject to vibration.
- 2. DO NOT block the unit's ventilation openings or holes. (If the ventilation openings or holes are blocked by a newspaper or cloth, etc., the heat may not be able to get out.)
- 3. **DO NOT** place heavy objects on the unit or remote control.
- 4. DO NOT place anything which might spill on top of the unit or remote control.
 - (If water or liquid is allowed to enter this equipment, fire or electric shock may be caused.)
- 5. DO NOT expose the apparatus to dripping or splashing.
- 6. DO NOT 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.
- **DO NOT** 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 on 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:

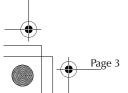
Using a mobile phone in the vicinity of the unit may cause picture vibration on the TV screen or change the screen to a blue back display.

On placing the unit:

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

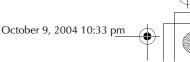
Contents

JAFELL FIRST	
Safety Precautions	2
DISC INFORMATION	4
About Discs	4
INDEX	6
INSTALLING YOUR NEW UNIT	9
Basic Connections	9
INITIAL CETTINGS	10
Auto Set Up	
Preset Download	12
Monitor Set (DVD deck)	
ODED ATIONIC ON VIIC DECV	10
Basic Playback	
Playback Features	19
Basic Recording	21
B.E.S.T. Picture System	
SHOWVIEW TM Timer Programming	24
Express Timer Programming	26
OPERATIONS ON DVD DECK	30
Basic Playback	30
Playback Features	31
Audio/Video Files Playback	
EDITING (VHS DECK)	44
Editing from a Camcorder	44
Editing to or from Another Video RecorderDubbing (from DVD to VHS)	45
EDITING (DVD DECK)	47
Digital Audio Dubbing	47
REMOTE CONTROL	48
Remote Control Functions	48
SYSTEM CONNECTIONS	50
Connecting to a Satellite Receiver	50
Connecting/Using a Decoder	51 fier with a
Built-In DTS (DVD deck only)	51
SUBSIDIARY SETTINGS	52
Mode Set (VHS deck)	
Mode Set (DVD deck)	
Video Channel Set	64
Clock Set	
TROUBLESHOOTING	67
-	
SPECIFICATIONS	70
LIST OF TERMS	71





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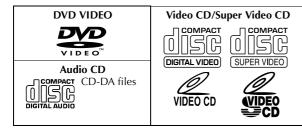


DISC INFORMATION

About Discs

Playable Discs

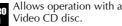
You can use discs with the following logos for playback only.

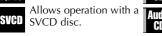


- The following discs also can be played back.
 - DVD-R/-RW discs recorded in DVD VIDEO format and finalized.
 - CD-R/RW discs recorded in Video CD, SVCD (Super Video CD), or Audio CD format and finalized.
 - The DivX file on the DVD-R and DVD-RW discs written in the UDF format.
 - CD-R/RW discs written in MP3/JPEG/DivX in accordance with the "ISO 9660" format. (See page 40 for details.)
- This unit can also play back audio signals recorded in MIX-
- MODE CD, CD-G, CD-EXTRA, and CD TEXT. • The image may be sometimes poor or noisy due to defects in
- the disc itself.
- With some discs, operations may not be possible.

Marks of discs in this instruction manual









Unplayable Discs

The following types of discs cannot be played using this unit.

- CD-ROM discs (including PHOTO-CD)
- DVD AUDIO discs
- Super Audio CDs (SACD)
- DVD-RW discs recorded in VR format
- DVD-RAM discs
- DVD-ROM discs

In addition, this unit does not play:

- Unfinalized discs
- Discs of irregular shape or discs with tape, seals, or paste on either the label side or playback side. Playing back these discs may damage the unit.

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 "2." Only discs whose region number includes "2" can be played back such as shown below.

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











DVD VIDEO Marks

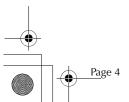
Sometimes marks are printed on a DVD disc and/or on its packaging to indicate information regarding the contents and functions of a disc. Check marks indicating the contents and functions of a disc. Note, however, that in some cases a disc may not include a mark even for a function it supports.

Marks related to video

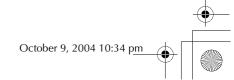
2	Number of subtitles		∞ 3 1	Number of angles
4:3	Recorded under the standard 4:3 aspect ratio		LB	Screen includes black bands at top and bottom of image which has a standard 4:3 aspect ratio (letter box)
16:9	LB	Video playback is in Wide video mode (16:9) on wide televisions, but in letter box on televisions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

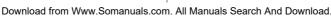
Marks related to audio

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





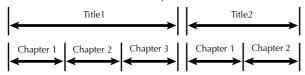








Typically, DVD VIDEO discs are made up of larger units called "titles." Each title has a number (title number) that can be used to select desired titles. Titles are further divided into units called "chapters." Each chapter has a number (chapter number) that can also be used to select desired chapters. 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



NOTE:

Video CD discs that support Playback Control (PBC)

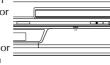
The still image or motion image which follows a menu screen is called a "scene." Each scene has a scene number. For more details, refer to "Locating a Desired Scene Using the Menu of a Video CD/SVCD with Playback Control (PBC) Function" (F pg. 31).

Placing a Disc

1 Open the disc tray.

Press \triangle on the DVD deck to open the disc tray.

- The unit's power comes on automatically.
- 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
- Do not press down strongly on the disc tray or place any heavy objects on it.

the label side facing up.

• Since disc size changes depending on the disc to be played back, be sure to correctly align the disc with the grooves for its size. If the disc is not in its groove, it may be scratched or otherwise damaged.



• To insert an 8 cm disc, place it according to the inner groove.

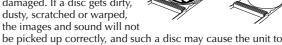
3 Press **≜** on the DVD deck to close the disc tray.

- Pressing ► also closes the disc tray.
- Playback begins automatically if an auto-playback DVD disc is loaded. Although the VHS deck is selected, the DVD deck is selected automatically (except when the VHS deck is in the timer mode or the Automatic Satellite Programme Recording mode.)

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



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

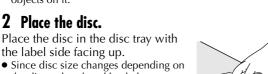
If there are fingerprints or other dirt adhering to a disc, wipe with a soft dry cloth, moving from the center outwards. If a disc is difficult to clean, wipe with a cloth moistened with water. Never use record cleaners, petrol, alcohol or any anti-static agents.

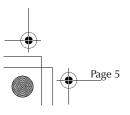


CAUTION

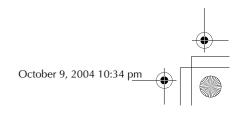
Sometimes during playback, noise or images may be garbled. This is sometimes due to the disc. (It may not be up to industry standards.)

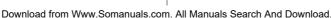
These symptoms are caused by the discs, not by the malfunction of the unit.











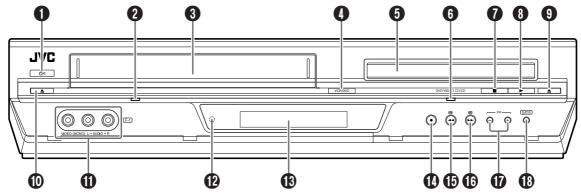




6EN

INDEX

Front View



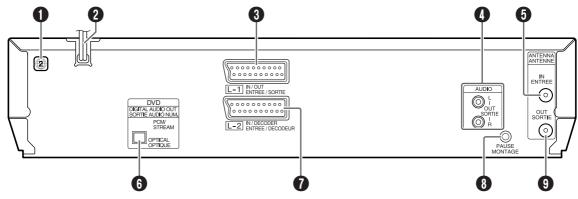
- **1** STANDBY/ON Button (७/۱) 🖙 pg. 10, 18, 40
- **2** VCR Indicator **2** pg. 18, 21
- 3 Cassette Loading Slot F pg. 18
- **4** VCR/DVD Button **□** pg. 18, 21, 30, 40
- **6** Disc Tray 🖙 pg. 30
- **6** DVD Indicator **□** pg. 30
- **7** Stop Button (■) 🖙 pg. 18, 21, 30, 41, 48
- **③** Play Button (►) 🖙 pg. 18, 21, 30, 41, 48
- 9 DVD Open/Close Button (▲) © pg. 30, 41
- Wideo/Audio Input Connectors (VIDEO/AUDIO) © pg. 44
- Infrared Beam Receiving Window
- 13 Front Display Panel 🖙 pg. 7

- Record Button (●) □ pg. 21, 22
- Rewind Button (◄◄) □ pg. 18, 19, 32
 Fast Forward Button (►►) □ pg. 18, 19, 32
- Programme Button (PR +/-) pg. 21
- ⊕ Automatic Satellite Programming Button (SAT④) © pg. 28

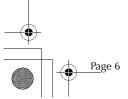
To access covered connectors or buttons, pull and open the cover.



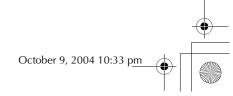
Rear View



- Region Number Label
 pg. 4
- 2 Mains Power Cord pg. 9
- 3 L-1 Input/Output Connector (L-1 IN/OUT) pg. 9, 45, 50, 51
- 4 Audio Output Connectors (AUDIO OUT (L/R))
- **5** Antenna Input Connector (ANTENNA IN) ☐ pg. 9, 50, 51
- 6 Digital Audio Output Connector (DĬGITAL AUDIO OUT) F pg. 47, 51
- 1 L-2 Input/Decoder Connector (L-2 IN/DECODER) F. pg. 45, 50, 51
- Remote Pause Connector (PAUSE)
 □ pg. 44
- Antenna Output Connector (ANTENNA OUT) r pg. 9, 50, 51







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Front Display Panel



- 1 VCR Mode Indicator 🖙 pg. 21, 22
- 2 Channel/Clock Display

Mode Display (L-1, L-2, F-1 or SAT*)

* When "L-2 SELECT" is set to "SAT" (CF pg. 54), "SAT" appears instead of "L-2".

Counter Display

Tape Speed (SP/LP) © pg. 21

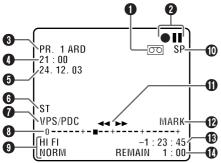
Multi-information window*

- * The current group/title/track/chapter number(s), time and status information.
- **3** VCR Indicator □ pg. 22
- **1** "Timer" Indicator 🗊 pg. 25, 26, 29
- **3** Automatic Satellite Programme Recording Indicator (為) 『 pg. 29

On-Screen Display (VHS deck)

If you press - = - on the remote control when "O.S.D." is set to "ON" (\square pg. 53), various operational indicators appear on the TV screen.

For the on-screen display for DVD deck, refer to "Using the On-Screen Bar" (pp. 38).



- "Cassette Loaded" Mark
- 2 Operation Mode Indicators
- (3) Channel Position Number and Station Name/Auxiliary Input Indicator (L-1, L-2, F-1 or SAT*)
 - * When "1-2 SELECT" is set to "SAT" (g pg. 54), "SAT" appears instead of "L-2."
- 4 Clock Display
- 6 Current Day/Month/Year
- **6** Type of Broadcast 🖙 pg. 23
- **7** VPS/PDC Indicator 🖙 pg. 24, 26
- ③ Tape Position Indicator
 The tape position indicator
 appears on the TV screen
 when you press ◀◀ or
 ▶▶ from the Stop mode or
 perform an Index Search.
 (☞ pg. 19) The position of
 "■" in relation to "0"
 (beginning) or "+" (end)
 shows you where you are

0----+ 1:23:45 REMAIN 2:35 Beginning End

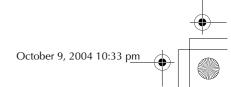
on the tape.

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

- 9 Audio Mode Display 🖙 pg. 20
- Tape Speed (SP/LP)
- **1** Tape Direction
- Index Mark Indicator (MARK)
 □ pg. 21
- **®** Counter Display
- Tape Remaining Time Indicator pg. 22

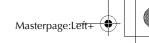






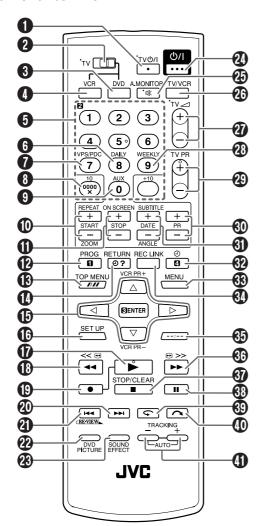








Remote Control



Buttons with a small dot on the left side of the name can also be used to operate your TV. (pp. 49)

How To Use

The remote control can operate most of your unit's functions, as well as basic functions of TV sets of JVC and other brands. (F) pg. 49)

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

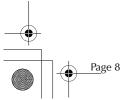
NOTES:

- When inserting the batteries, be sure to insert in the correct directions as indicated under the battery cover.
- If the remote control doesn't work properly, remove its batteries, wait a short time, replace the batteries and then try again.

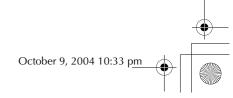
- **1** TV Standby/On Button (TV り/)に pg. 49
- 2 TV/VCR/DVD switch @ pg. 12, 14, 18, 21, 30, 40, 49
- **3** DVD Button □ pg. 14, 30, 40
- **4** VCR Button □ pg. 14, 18, 21, 24, 26
- **6** Number Keys
- 6 Daily Button (DAILY) pg. 25, 27
- 7 VPS/PDC Button 🖙 pg. 24, 26
- Reset Button (0000) ☐ pg. 22 Cancel Button (X) ☐ pg. 24, 27
- Auxiliary Button (AUX) 🖙 pg. 44
- Start Time Button (START +/−) ☞ pg. 26
 Repeat Button (REPEAT) ☞ pg. 33
 Zooming Button (ZOOM) ☞ pg. 32
- ① Stop Time Button (STOP +/-) ** pg. 26 On Screen Button (ON SCREEN) ** pg. 38
- Programming Button (PROG) pg. 24, 26
- Tape Speed Button (////) □ pg. 21, 24, 26 Top Menu Button (TOP MENU) □ pg. 31
- Programme Check Button (② ?) ☐ pg. 27 Return Button (RETURN) ☐ pg. 31
- **(b** \triangleleft \triangleright Button $\triangle \nabla$ Button ENTER Button VCR Programme Button (VCR PR +/−)
- **ⓑ** Set Up Menu Button (SET UP) ☞ pg. 12, 14, 52, 55
- **1** Play Button (►) □ pg. 18, 30
- **1** Rewind Button (**◄**) □ pg. 18, 19, 32
- **(9)** Record Button (●) 🖙 pg. 21, 22
- ② Reverse Skip/Index Button (I◄◄) ☐ pg. 19, 31 Review Button (CREVIEW►) ☐ pg. 20
- 2 DVD Picture Button (DVD PICTURE) pg. 36
- 3 Sound Effect Button (SOUND EFFECT) □ pg. 37
- **②** Standby/On Button (७/۱) □ pg. 10, 18, 40
- **②** TV Muting Button (♥) □ pg. 49 Audio Monitor Button (A.MONITOR) □ pg. 20, 23, 35
- **3** TV/VCR Button ☐ pg. 22
- **②** TV Volume Button (TV ∠ +/-) 🖙 pg. 49
- 3 Weekly Button (WEEKLY) ☐ pg. 25, 27
- ② TV Programme Button (TV PR +/−) ☐ pg. 49
- Programme Button (PR +/-) F pg. 21, 26
- **Date Button (DATE +/-) ** pg. 26

 Subtitle Button (SUBTITLE) ** pg. 34

 Angle Button (ANGLE) ** pg. 35
- **②** Timer Button (**②**) □ pg. 25, 26, 27
- 3 Menu Button (MENU) ☐ pg. 31
- Automatic Satellite Programming Button (REC LINK)
 pg. 28
- **⑤** Display Button (- -:- -) □ pg. 22
- **③** Fast Forward Button (►►) □ pg. 18, 19, 32
- **③** Stop/Clear Button (■) 🖙 pg. 18, 21, 30
- **39** Pause Button (**■**) **□** pg. 19, 21, 30
- One Touch Replay Button (♠)
 pg. 40
- **⑩** Skip Search Button (**△**) **□** pg. 19
- **1** Tracking Button (TRACKING +/−) 🖙 pg. 20







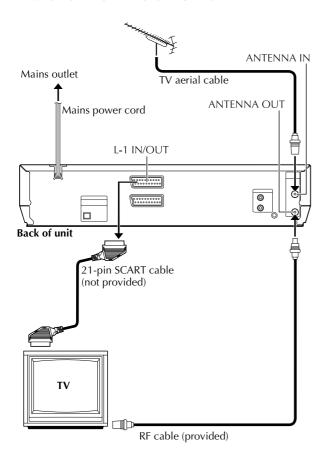
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EN 9

INSTALLING YOUR NEW UNIT

Basic Connections



It's essential that your unit be properly connected.

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

Check the contents.

Make sure the package contains all of the accessories listed in "SPECIFICATIONS" on page 70.

2 Situate the unit.

Place the unit on a stable, horizontal surface.

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 aerial cable from the TV.
- 2 Connect the TV aerial cable to the ANTENNA IN connector on the rear panel of the unit.
- 3 Connect the provided RF cable between the ANTENNA OUT connector on the rear panel of the unit and the TV's aerial connector.

AV Connection

■ To connect to a TV with AV input connectors —

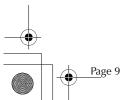
If your TV is equipped with a 21-pin SCART connector, perform AV connection to improve picture quality during tape playback.

- i Connect the aerial, unit and TV as per "RF Connection."
- 2 Connect an optional 21-pin SCART cable between the L-1 IN/OUT connector on the rear panel of the unit and the TV's 21-pin SCART connector.

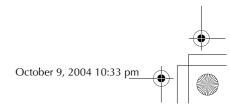
Connect the unit to mains.

Plug the end of the mains power cord into a mains outlet.

After the connection is completed, perform "Auto Set Up" on page 10.

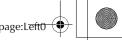












10 EN

INITIAL SETTINGS

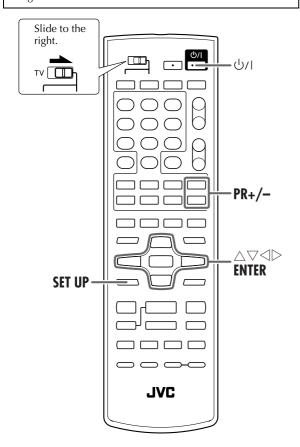
Auto Set Up Auto Channel Set/Auto Clock Set/ **Auto Guide Program Number Set**

After the U/I button on the unit or remote control is pressed for the first time to power on the unit, by simply selecting your country*, the Auto Set Up function sets the tuner channels, clock** and Guide Program numbers automatically.

- If you live in Belgium (BELGIUM) or Switzerland (SUISSE), you also need to select your language.
- **If you live in Hungary (MAGYARORSZÁG), Czech Republic (ČESKÁ REPUBLIKA), Poland (POLSKA) or other countries in Eastern Europe (OTHER EASTERN EUROPE), set the clock manually.

Before starting, make sure of the following:

- The TV aerial cable should be connected to the unit.
- The unit's mains power cord should be connected to a mains outlet.
- The TV should be set to its AV mode (with AV connection g pg. 9) or UHF channel 36 (with RF connection □ pg. 9).
- Slide the TV/VCR/DVD switch on the remote control to the right.



Turn on the unit.

Press 0/1 on the unit or remote control. The Country Set display appears on the TV screen.

NOTE:

If you have connected your TV to the unit with RF connection and the on-screen display appearing on UHF channel 36 looks distorted, perform "Video Channel Set" on page 64.



Select your country.

Press $\triangle \nabla$ to move the highlight bar (pointer) to your country's name.

(Example) DEUTSCHLAND is selected.



NOTES:

- If you have selected BELGIUM or SUISSE, go to step 3.
- If you have selected MAGYARORSZÁG, ČESKÁ REPUBLIKA, POLSKA or OTHER EASTERN EUROPE, press ENTER. The Clock Set screen appears. Set the clock manually (pg. 65), then go to step 4.
- If you have selected any other country name, go to step 4.

Select the language.

Press ENTER. The Language Set display appears on the TV screen.

Press $\triangle \nabla$ to move the highlight bar (pointer) to the language of your choice.

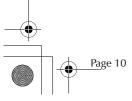
(Example) DEUTSCH is selected.



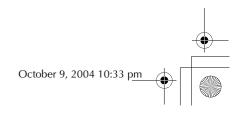
NOTE:

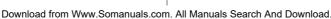
The selected language is only available on the screen for VHS

Set manually the on-screen language for the DVD deck. (F pg. 16)













Perform Auto Set Up.

Press **ENTER**. The AUTO SET/T-V LINK display appears on the TV screen.

Press $\triangle \nabla$ to move the highlight bar (pointer) to "AUTO SET" and press **ENTER** or \triangleright .

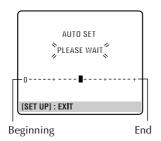
 When selecting "AUTO SET," "Auto" also appears on the front display panel.



Ruto

While Auto Set Up is in progress, do NOT press any button on the unit or remote control until the front display panel shows either the display as illustrated in step **5** or "————" as illustrated on page 13.

 The AUTO SET screen will appear on the TV screen. As Auto Set Up progresses, the "■" mark on the TV screen moves from left to right.



• When you have connected the unit to a TV offering T-V Link via a fully-wired 21-pin SCART cable (pp. 9) and the TV is turned on, the unit automatically performs the Preset Download (pp. 12) even if you select "AUTO SET" for Auto Set Up function.

5

Confirm/Set video channel.

With RF Connection

The video channel that is blinking on the front display



panel is your video channel. Press **ENTER**.

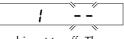
• If you have selected

MAGYARORSZÁG, ČESKÁ
REPUBLIKA, POLSKA or
OTHER EASTERN EUROPE in step **2** on page 10, "2" appears instead of "1."

 To view picture signals from the unit, set your TV to the video channel.

With AV Connection

Press **PR** – until the front display panel shows "1 – –"



(or "2 -"). Now the video channel is set to off. Then press **ENTER**.

 To view picture signals from the unit, set your TV to its AV mode.

ATTENTION

Once you have performed Auto Set Up, even if the unit's memory backup has expired, all the stored stations and their Guide Program numbers remain in the unit's memory and the unit will not perform Auto Set Up again. The unit performs only Auto Clock Set when the unit is turned on. If you have moved to a different area, perform each setting as required.

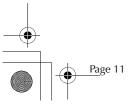
- Video channel setting (for RF connection users) 🖙 pg. 64
- Tuner setting F pg. 59
- Clock setting □ pg. 65

If a new station starts broadcasting in your area, perform tuner setting (pg. 59) and, if necessary, video channel setting (pg. 64).

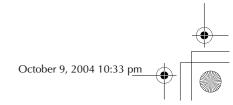
NOTES:

- In areas where no TV station transmits a PDC (Programme Delivery Control) signal, the unit can perform neither Auto Clock Set nor Auto Guide Program Number Set.
- If there is a power cut, or if you press ७/۱ or **SET UP** while Auto Set Up is in progress, Auto Set Up will be interrupted; be sure to turn off the unit power once and try again from step ■.
- Auto Clock Set may not function properly depending on the reception condition.
- If no sound accompanies the picture or the audio sounds unnatural on some channels that have been stored by Auto Set Up, the TV system setting for those channels may be incorrect. Select the appropriate TV system for those channels.
 (IF) pg. 61, "INFORMATION")

After "Auto Set Up" is completed, perform "Monitor Set (DVD deck)" on page 14.













12 en

INITIAL SETTINGS (cont.)

Preset Download

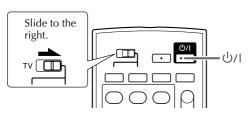
Auto Channel Set by Downloading from TV/Auto Clock Set/Auto Guide **Program Number Set**

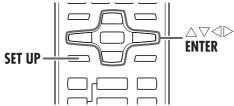
If you have connected the unit to your TV via the AV connection (Fig. 9), the unit will automatically perform Preset Download instead of the Auto Set Up in step 4 on page 11. After downloading, the unit sets the clock and Guide Program numbers automatically.

ATTENTION

You can use this function only with a TV offering T-V Link, etc.* Be sure to use a fully-wired 21-pin SCART cable.

- Compatible with TVs offering T-V Link, EasyLink, Megalogic, SMARTLINK, Q-Link or DATA LOGIC via fully-wired 21-pin SCART cable. The degree of compatibility and available functions may differ by system.
- Slide the TV/VCR/DVD switch on the remote control to the
- Perform steps to of "Auto Set Up" on page 10 before





NOTES:

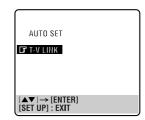
- For details, refer to the instruction manual of your TV.
- In areas where no TV station transmits a PDC (Programme Delivery Control) signal, the unit can perform neither Auto Clock Set nor Auto Guide Program Number Set.
- If there is a power cut, or if you press ७/। or **SET UP** while downloading or set up is in progress, it will be interrupted; be sure to turn off the unit power once and try again from the
- Auto Clock Set may not function properly depending on the reception condition.
- On this unit, the characters available for station names (ID) are A–Z, 0–9, –, \star , + and $_$ (space). Some names of downloaded stations may differ from those of your TV. (F) pg. 62)

Perform Preset Download.

Press ENTER. The AUTO SET/T-V LINK display appears on the TV screen.

Press $\triangle \nabla$ to move the highlight bar (pointer) to "T-V LINK" and press ENTER or \triangleright .

• When selecting "T-V LINK," "CH - -" also appears on the front display panel.



Preset positions on the front display panel increase from "1"; do NOT press any button on the unit or remote control until the front display panel shows clock time, "1" or "--:--" as illustrated on page 13.

- The T-V LINK screen will appear. Then the GUIDE PROG SET screen will appear during Guide Program Number Set. When Preset Download is completed, "COMPLETED" appears for about 5 seconds, then the normal screen appears.
- If you press any button on the unit or remote control while downloading is in progress, it will be interrupted.

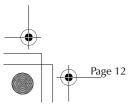




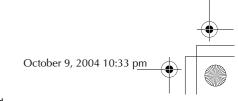
Set the video channel.

Set the video channel to off manually. (F) pg. 64)

After "Preset Download" is completed, perform "Monitor Set (DVD deck)" on page 14.









Results of Auto Set Up/Preset Download Appear on the Front Display Panel

A 20:00

If both Auto Channel Set and Auto Clock Set have been performed successfully, the correct current time is displayed.

Turn on the TV and select its video channel or AV mode, then make sure that all necessary stations have been stored in the unit's memory by using the **PR** button(s).

- If station names (ID) pg. 63) have also been stored in the unit's memory, the station name will be displayed at the top left corner of the TV screen for about 5 seconds when the unit is tuned to a different station.
- If you want to set the tuner manually such as to add or skip channels, to change channel positions, or to set or change station names, see pages 60 – 63.

If Auto Channel Set has succeeded but Auto Clock Set has not, "1" (channel position) is displayed.

- Turn on the TV and select its video channel or AV mode, then make sure that all necessary stations have been stored in the unit's memory by using the PR button(s).
- If station names (ID 🖙 pg. 63) have also been stored in the unit's memory, the station name will be displayed at the top left corner of the TV screen for about 5 seconds when the unit is tuned to a different station.
- If you want to set the tuner manually such as to add or skip channels, to change channel positions, or to set or change station names, see pages 60 – 63.
- 2 Perform "Clock Set" on page 65.

If both Auto Channel Set and Auto Clock Set have failed, "--:--" is displayed.

Make sure the cables are connected properly and turn off the unit's power once, then turn the unit's power back on again. The Country Set display appears on the TV screen; perform "Auto Set Up" on page 10 or "Preset Download" on page 12 again.

IMPORTANT

- To check if the Guide Program numbers have been set correctly, perform the SHOWVIEW Timer Programming. (Pp. 24) (VHS deck only)
- In certain reception conditions, station names may not be stored correctly, and auto Guide Program Number Set may not work properly. If the Guide Program numbers are not set properly when you timer-record a TV programme using the SHOWVIEW system, the unit will record a TV programme of a different station. When programming the timer using the SHOWVIEW system, be sure to check the desired channel is selected correctly. (☐ pg. 24, "SHOWVIEW" Timer Programming") (VHS deck only)
- Your unit memorizes all detected stations even if reception of some of them is poor. You can delete those stations with an unacceptable picture. (pg. 61, "Deleting a Channel")

INFORMATION

Language for the on-screen display (VHS deck)

Auto Set Up also selects the language automatically for the onscreen display depending on the Country setting you have made in step 2 on page 10 (unless you have selected BELGIUM or SUISSE), as shown below.

SUOMI PORTUGAL DEUTSCHLAND POLSKA NORGE SVERIGE DANMARK ÖSTERREICH	→ SUOMI → ENGLISH → DEUTSCH → POLSKI → NORSK → SVENSKA → DANSK → DEUTSCH	ITALIA MAGYARORSZÁC ESPAÑA NEDERLAND GREECE OTHER WESTERN EUROPE OTHER FASTERN	→ CASTELLANO → NEDERLANDS → ENGLISH → ENGLISH
ÖSTERREICH ČESKÁ	→ DEUTSCH → ČEŠTINA	OTHER EASTERN EUROPE	→ ENGLISH
REPUBLIKA			

If you want to change the language setting manually, see "On-Screen Language Set (VHS deck)" on page 15.

Language for the on-screen display (DVD deck)

Set manually the on-screen language for the DVD deck. (CF pg. 16)

Just Clock

Your unit is equipped with the Just Clock function which provides accurate time keeping through automatic adjustments at regular intervals, by reading data from a PDC signal. If you want to take advantage of this function, simply set it to "ON". (F) pg. 65, "Just Clock")

T-V Link Functions

When you connect the unit to your TV via a fully-wired 21-pin SCART cable (pg. 9), the following functions are available. You can use these functions only with a TV offering T-V Link, etc.*

For details, refer to the instruction manual of your TV.

* Compatible with TVs offering T-V Link, EasyLink, Megalogic, SMARTLINK, Q-Link or DATA LOGIC via fully-wired 21-pin SCART cable. The degree of compatibility and available functions may differ by system.

TV Auto Power On

The TV will turn on and be set to its AV mode automatically whenever you play a tape.

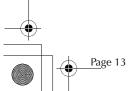
For details, refer to the instruction manual of your TV.

Unit Auto Standby

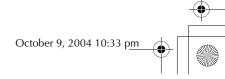
You can use your TV's remote control to turn off the unit. For details, refer to the instruction manual of your TV.

Direct Rec (VHS deck only)

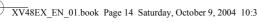
You can easily start recording the programme that you are watching on your TV. When you use this function, set "DIRECT REC" to "ON." (pg. 53)













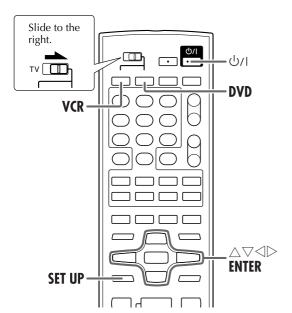


INITIAL SETTINGS (cont.)

Monitor Set (DVD deck)

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

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



Turn on the unit.

Press U/I.

Select the DVD deck.

On the unit

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

On the remote control

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

Access the DVD Set Up menu screen.





Select the mode.

Press $\triangle \nabla$ to move \boxtimes to "MONITOR TYPE," then press ENTER.



Select the mode setting.

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

Return to the normal screen.

Press SET UP.

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

■ MONITOR TYPE

16:9 (Wide television conversion):

Select this when the aspect ratio of your TV is 16:9 (wide

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" and "Letter Box."

Pan&Scan

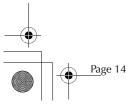
The right and left side of the image are cut off. The image fills the screen.



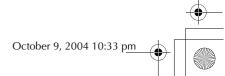
Letter Box

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















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

On-Screen Language Set (VHS deck)

This VHS deck offers you the choice to view on-screen messages in 13 different languages. Though Auto Set Up selects the language automatically (F) pg. 13), you can change the language setting manually as required.



Turn on the unit.

Press 心/l.

Select the VHS deck.

On the unit

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

On the remote control

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

Access the Country Set screen.

1 Press **SET UP**.

2 Press △∇ to move the highlight bar (pointer) to "AUTO CH SET," then press **ENTER** or ▷.



Select your country.

Press $\triangle \nabla$ to move the highlight bar (pointer) to your country's name, then press **ENTER** or \triangleright .

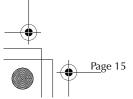
5 Select the language.

Press $\triangle \nabla$ to move the highlight bar (pointer) to the language of your choice.

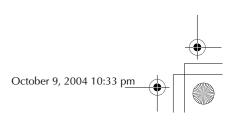
 You do not have to press ENTER; pressing ENTER enters AUTO SET/T-V LINK screen. NEXT PAGE
NORSK
SVENSKA
REDERLANDS
CASTELLANO
ITALIANO
FRANCAIS
DEUTSCH
EF ENGLISH

Return to the normal screen.

Press **SET UP**.













16 EN

INITIAL SETTINGS (cont.)

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.



Turn on the unit.

Press 心/l.

Select the DVD deck.

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

On the remote control

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

Access the DVD Set Up menu screen.

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



Select the mode.

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



Select the mode setting.

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

Return to the normal screen.

Press SET UP.

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

Some DVD discs contain the DVD menu display, audio, subtitle in 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 menu screen as an example.

Turn on the unit.

Press 心川.

Select the DVD deck.

On the unit

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

On the remote control

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

Access the DVD Set Up menu screen.

1 Press **SET UP**. Press <1 > to select "A LANGUAGE."



Select the mode.

Press $\triangle \nabla$ to move \boxtimes to "MENU LANGUAGE," then press ENTER.



Select the mode setting.

Press $\triangle \nabla$ to select the desired setting, then press **ENTER**. • See "Language Code List" (L3 pg. 17).

Return to the normal screen.

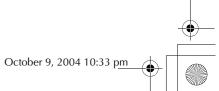
Press **SET UP**.

NOTE:

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



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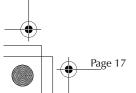


Language Code List

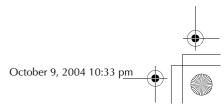
AA	Afar
AB	Abkhazian
AF	Afrikaans
AM	Ameharic
AR	Arabic
AS	Assamese
AY	Aymara
ΑZ	Azerbaijani
BA	Bashkir
BE	Byelorussian
BG	Bulgarian
BH	Bihari
BI	Bislama
BN	Bengali, Bangla
ВО	Tibetan
BR	Breton
CA	Catalan
CO	Corsican
CS	Czech
CY	Welsh
DA	Danish
DZ	Bhutani
EL	Greek
EO	Esperanto
ET	Estonian
EU	Basque
FA	Persian
FI	Finnish
FJ	Fiji
FO	Faroese
FY	Frisian
GA	Irish
GD	Scots Gaelic
GL	Galician
GN	Guarani
GU	Gujarati
HA	Hausa
HI	Hindi
HR	Croatian
HU	Hungarian
HY	Armenian
IA	Interlingua
IE	Interlingue
I L	memigae

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

RN	Kirundi
RO	Rumanian
RU	Russian
RW	Kinyarwanda
SA	Sanskrit
SD	Sindhi
SG	Sangho
SH	Serbo-Croatian
SI	Singhalese
SK	Slovak
SL	Slovenian
SM	Samoan
SN	Shona
SO	Somali
SQ	Albanian
SR	Serbian
SS	Siswati
ST	Sesotho
SU	Sundanese
SV	Swedish
SW	Swahili
TA	Tamil
TE	Telugu
TG	Tajik
TH	Thai
TI	Tigrinya
TK	Turkmen
TL	Tagalog
TN	Setswana
TO TR	Tonga Turkish
TS	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
TT	Tsonga Tatar
TW	Twi
UK	Ukrainian
UR	Urdu
UZ	Uzbek
VI	Vietnamese
VO	Volapuk
WO	
XH	Xhosa
YO	Yoruba
ZU	Zulu
1	1











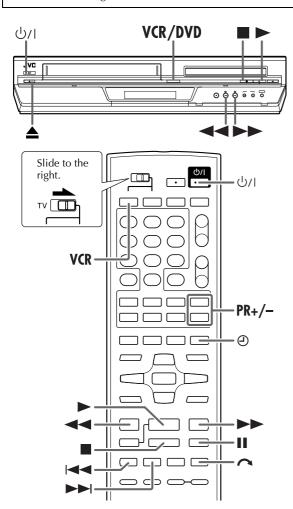


18 EN

OPERATIONS ON VHS DECK

Basic Playback

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



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

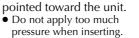
- Rough, poor picture appears while a tape is played back.
- The picture is unclear or no picture appears.
- "USE CLEANING CASSETTE" appears on the screen (only with "O.S.D." set to "ON"). (F pg. 53)

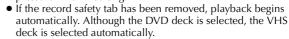
The heads get dirty in the following cases:

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

Load a cassette.

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





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

Select the VHS deck.

On the unit

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

On the remote control

Press VCR so that the VCR indicator lights up.

Find the programme start point.

If the tape is advanced past the start point, press ◀◀. To go forward, press ▶►.

Start playback.

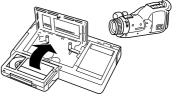
Press ►. "bESt" appears blinking on the front display panel during automatic tracking. (F pg. 23)

Stop playback.

Press \blacksquare . Then press \triangle on the VHS deck to remove the cassette.

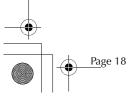
Usable cassettes

• Compact VHS camcorder recordings can be played on this unit. Simply place the recorded cassette into a VHS Cassette

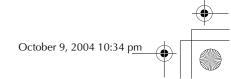


Adapter and it can be used just like any full-sized VHS cassette.

- This video recorder is equipped with SQPB (S-VHS QUASI PLAYBACK) that lets you watch tapes recorded in the S-VHS format and the SP mode with regular VHS
 - SQPB does not deliver Super VHS resolution.
- This video recorder can record on regular VHS and Super VHS cassettes. However, it will record regular VHS signals
 - * S-VHS recording is not possible with this recorder.















Playback Features

- Turn on the TV and select the video channel (or AV mode).
- Slide the TV/VCR/DVD switch on the remote control 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 II.

• If there is vertical jitter, press **PR** +/- on the remote control to correct the picture.

2 Activate frame-by-frame playback.

Press II.

Slow Motion

While playback is paused, press and hold **II** for 2 seconds, then release. Press **II** and release again to return to still picture.

NOTE:

During slow motion playback, some noise may appear on the TV screen. Press **PR** + or – on the remote control to eliminate the noises

Variable Speed Search

During playback, press ►► for forward variable speed search, or ◀◀ for reverse variable speed search.

The speed changes for each direction by pressing ◀◀ and
 ▶ repeatedly.

When pressing $\blacktriangleright \triangleright$: +5x \leftrightarrow +7x

When pressing $\blacktriangleleft : -1x \rightarrow -5x \leftrightarrow -7x$

(Once ◀◀ is pressed, reverse search starts in -1x normal playback speed. After this process, each press of ◀◀ changes the search speed between -5x and -7x.)

NOTE:

The search speed changes in the same way for SP and LP mode.

To resume normal playback, press ▶.

Skip Search

During playback, press \sim 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 ►.

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 I ← or ► . "I ← 1" or "► 1" is displayed on the TV screen and search begins in the corresponding direction.

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

Example:

To locate the beginning of B from the current position, press I◀◀ twice.

Current position

To locate the beginning of D from the current position, press ▶►I once.

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

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 ◀◀, then press ▶ within 2 seconds.

b- For Automatic Power Off
Press ◀◀, then press ७/۱ within 2 seconds.

Press ◀◀, then press ७/١ with c- For Automatic Timer Standby

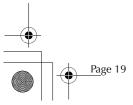
Press ◀◀, then press ② within 2 seconds.

d- For Automatic Cassette Ejection After Tape Rewind Press **◄**, then press **≜** within 2 seconds.

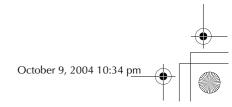
One Touch Replay

Press c during playback.

Pressing \leftarrow once moves the playback position back to about 7 seconds before the current position. You can press \leftarrow up to 4 times each One Touch Replay.





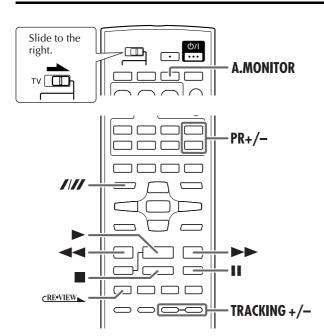








OPERATIONS ON VHS DECK (cont.)



Instant ReView

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

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 programme. Once it's found, playback begins automatically.

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

Repeat Playback

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

1 Start playback.

Press ►.

2 Activate Repeat Playback.

Press ► 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 ■ at any time.

Pressing ►, ✓
 I also stops Repeat Playback.

Manual Tracking

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

Override automatic tracking.

During playback, press TRACKING + and at the same time.

2 Adjust the tracking manually.

Press TRACKING +/-.

• Press TRACKING + and - at the same time again to return to automatic tracking.

NOTE:

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

Soundtrack Selection

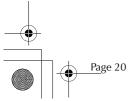
Your unit is capable of recording three soundtracks (HI-FI L, HI-FI R and NORM) and will play back the one you select. **During Playback**

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

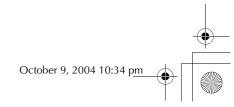
Track	Use	
On-screen display		
HIFI L D ≪IR	For Hi-Fi stereo tapes	
HI FI L №	For main audio of Bilingual tapes	
HI FI ∜∏ R	For sub audio of Bilingual tapes	
NORM	For audio-dubbed tapes	
HI FI NORM	For audio-dubbed tapes	

NOTES:

- "HIFI L 🕒 👊 R" 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.
- For instructions on recording stereo and bilingual
- programmes, refer to page 23.
 "O.S.D." must be set to "ON" or the on-screen displays will not appear. (F pg. 53)









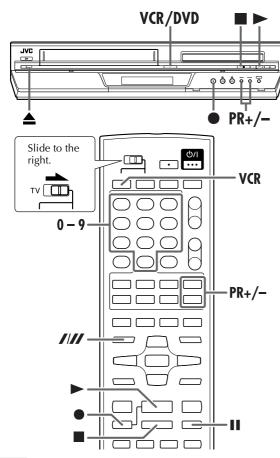






Basic Recording

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



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 VHS deck.

On the unit

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

On the remote control

Press VCR so that the VCR indicator lights up.

Choose a programme.

Press **PR** +/– or the **number keys** to select the channel you wish to record.

4 Set the tape speed.

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

Start recording.

Press and hold ● and press ► on the remote control, or press ● on the unit.

- If "O.S.D." is set to "ON" (pg. 53), "MARK" blinks on the screen while an index code is being marked.
 When "DIRECT REC" is set to "ON" (pg. 53), if you press
- When "DIRECT REC" is set to "ON" (□ pg. 53), if you press any button just after pressing • on the unit (or • and • on the remote control), the unit may not function properly.

B.E.S.T. works at the beginning of both the first SP and the first LP recording after inserting the cassette. (\square pg. 23)

If "DIRECT REC" is set to "ON," the programme that appears on the TV screen will be recorded. (CF pg. 53)

6 Pause/Resume recording.

Press **II**. Press **▶** to resume recording.

• You can select channel during the Record Pause mode.

Stop recording.

Press ■. Then press ♠ on the VHS deck to remove the cassette.

Recording Resume Function

If there is a power outage during recording, Instant Timer Recording, or timer recording (F) pg. 21, 22, 26), the recording will resume automatically when power is restored to the unit unless the unit's memory backup has expired.

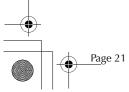
Accidental erasure prevention

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

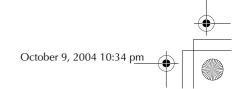


NOTE:

When the end of the tape is reached during recording, the unit stops and " \bigcirc " and " \triangleright " blink on the front display panel.









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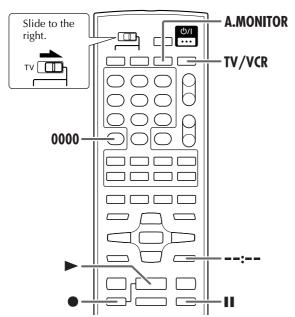




OPERATIONS ON VHS DECK (cont.)

Recording Features

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



Recording One Programme 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 programme selected with the TV's channel controls appears on the TV screen, while the one selected with the unit's PR buttons is recorded on the tape.
- If a decoder is connected to the unit (pg. 51), you can select a scrambled channel as well with the TV channel controls.

NOTE:

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

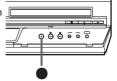
- During recording
- During timer recording
- During timer standby mode

Instant Timer Recording (ITR)

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



Press • on the unit.



2 Engage the ITR mode.

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

3 Set the recording duration.

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

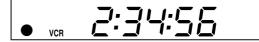
NOTES:

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

Elapsed Recording Time Indication

1 Set the counter display.

Press - -:- - until a counter reading appears on the front display panel.



2 Reset the counter.

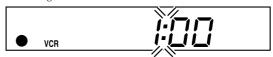
Press 0000 before starting recording or playback.

• 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 - -: - until the time remaining on the tape

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

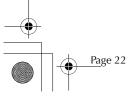


 By pressing the - -: - - button, you can change the display to show the channel position, clock time, counter reading, and tape remaining time.

The channel position is not displayed during playback.

NOTES:

- When you press -:- -, 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 - -:
- Depending on the type of tape being used, the tape remaining time reading may not appear right away, or is not correct. "--:--" may sometimes appear with ":" blinking, or the display may blink on occasion.





October 9, 2004 10:34 pm





Receiving Stereo and Bilingual Programmes

Your unit is equipped with a Sound-Multiplex decoder (A2) and a Digital stereo sound decoder (NICAM) making reception of stereo and bilingual broadcasts possible.

When the channel is changed, the type of broadcast being received will be displayed on the TV screen for a few seconds.

Type of broadcast being received	On-screen display
A2 Stereo A2 Bilingual Regular Monaural NICAM Stereo NICAM Bilingual NICAM Monaural	ST BIL. (none) ST NICAM BIL. NICAM NICAM

- To listen to a bilingual programme, press **A.MONITOR** until
 "HIFLL I™ or "HIFL I I R" appears on the TV screen.
- "HIFI L ">" or "HIFI ◀ R" appears on the TV screen.

 To listen to the standard (Regular Monaural) audio while receiving a NICAM broadcast, press **A.MONITOR** until "NORM" appears on the TV screen.

NOTE:

"O.S.D." must be set to "ON," or the on-screen displays will not appear. (ご pg. 53)

To Record Stereo and Bilingual Programmes (A2)

Stereo programmes are automatically recorded in stereo on the Hi-Fi audio track (with the normal audio track recording mixed L and R channel sound).

 Bilingual programmes are automatically recorded in bilingual on the Hi-Fi audio track. The main soundtrack will be recorded on the normal audio track.

To Record NICAM Stereo and Bilingual Programmes

The NICAM audio programme will be recorded on the Hi-Fi audio track, and the standard audio programme will be recorded on the normal audio track.

NOTES:

- If the quality of stereo sound being received is poor, the broadcast will be received in monaural with better quality.
- Before playing back a programme recorded in stereo, or a bilingual programme, refer to "Soundtrack Selection" on page 20.

B.E.S.T. Picture System

The B.E.S.T. (Biconditional Equalised Signal Tracking) system checks the condition of the tape in use during playback and recording, and compensates to provide the highest-possible playback and recording pictures. You can set "B.E.S.T." to "ON" or "OFF" to your preference. (Fig. 53)

Playback

The unit assesses the quality of the tape once you initiate playback.

- The unit adjusts the playback picture quality based on the quality of the tape in use.
- B.E.S.T. is active during automatic tracking. "bESt" appears blinking on the front display panel.
- "bESt" only appears at the beginning of automatic tracking.
 Even though it doesn't appear after that, the B.E.S.T. function is operative.

Recording

The unit assesses the quality of the tape once you initiate recording.

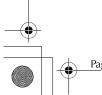
• The unit spends approximately 7 seconds assessing the condition of the tape, then begins recording.

ATTENTION

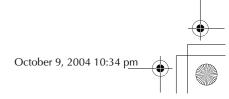
Since the B.E.S.T. system works before recording actually starts, there is a delay of approximately 7 seconds after ● and ▶ on the remote control are pressed, or ● on the unit is pressed. To make sure you record the desired scene or programme in its entirety, first perform the following steps:

- Press and hold and press to engage the Record Pause mode.
- The unit then automatically checks the condition of the tape and, after approximately 7 seconds, re-enters Record Pause mode.
- 2 Press ► to start recording.

If you want to bypass the B.E.S.T. system and begin recording immediately, set "B.E.S.T." to "OFF". (F. pg. 53)











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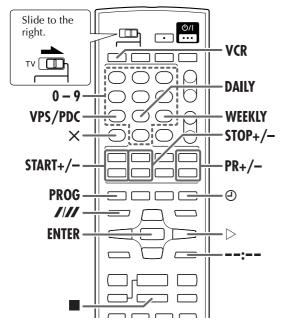
OPERATIONS ON VHS DECK (cont.)

SHOWVIEW[™] Timer **Programming**

With the SHOWVIEW system, timer programming is greatly simplified because each TV programme has a corresponding code number which your unit is able to recognize.

Before performing the SHOWVIEW Timer **Programming:**

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



Select the VHS deck.

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

On the remote control

Press VCR so that the VCR indicator lights up.

Access the SHOWVIEW screen.

Press PROG.



Enter the SHOWVIEW number.

Press the number keys to enter the SHOWVIEW number of a programme you wish to record.

• If you make a mistake, press X and input the correct number.



Access the SHOWVIEW Program screen.

Press **ENTER**, then the SHOWVIEW Program screen appears (if you're just starting out, "P1" appears).

SHOWVIEW START 21:00	- P1 - NO. 123456789 STOP → 22:00
SP	VPS/PDC OFF
DATE 25.12	TV PROG 1 ARD
[ENTER]: OK	

IMPORTANT

Make sure the channel position number you wish to record is displayed; if not, or "TV PROG" shows "--," press PR +/- to input the channel position number on which your unit receives the station, then press **ENTER** or \triangleright .

• If the number you entered is invalid, "ERROR" appears on the TV screen. Press X and input a valid SHOWVIEW number.

Set the tape speed.

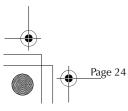
Press ////.

Set the VPS/PDC mode.

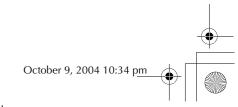
Press VPS/PDC (number key "7") to select "ON" or

- If "VPS/PDC ON" is displayed on the TV screen, "VPS/PDC" is set to "ON.
- If "VPS/PDC OFF" is displayed on the TV screen, "VPS/PDC" is set to "OFF."

"VPS/PDC Recording" on page 25.











Return to the normal screen.

Press PROG or ENTER. "PROGRAM COMPLETED" appears on the TV screen for about 5 seconds, then the normal screen appears.

• Repeat steps **2** – **7** for each additional programme.

Engage the unit's timer mode.

Press ⊕. The unit turns off automatically and "⊕" appears on the front display panel.

• To disengage the timer mode, press @ again.

NOTES:

- To Change The Stop Time: - press STOP +/- after pressing ENTER in step 4. You can compensate for anticipated programme schedule delays.
- To Timer-Record Weekly Or Daily Serials: after pressing ENTER in step 4, 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.
- You can programme this unit to timer-record as many as 8 programmes. If you try to programme the unit to record a ninth, "PROGRAM FULL" appears on the TV screen and "FULL" appears on the front display panel. To record the extra programme, you must first cancel any unnecessary programmes. (F pg. 27)
- If there is a conflict in the timer schedule and one programme overlaps with another, the programme starting earlier or programme with the lower programme number will be recorded.

Satellite Receiver Users

To timer-record a satellite broadcast using the SHOWVIEW

- Set "L-2 SELECT" to "A/V". (FF pg. 54)
- 2 Perform steps – 8.
- Set the satellite receiver to the appropriate channel before the selected programme begins.
- 4 Leave the satellite receiver's power on.

VPS/PDC Recording

Now available from some TV stations, PDC (Programme Delivery Control) and VPS (Video Programme System) are service designed to assure safe, accurate timer recording. With this system, special code signals are transmitted together with the audio/video signals. These code signals control your unit and have precedence over the advertised times you may have preset into the timer. This means that your unit will start and stop recording when the preset TV programmes actually start and end — even if the broadcast time of a preset TV programme is changed.

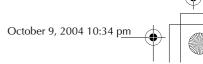
- When you use Express Timer Programming, set the start time (VPS or PDC time) exactly as advertised in the TV listing. A different time than advertised will result in no recording.
- VPS/PDC recording is also possible when a satellite receiver or a cable system is connected to L-2 IN/ DECODER connector on your unit.
- VPS/PDC recording is also possible via the L-1 IN/OUT

How to check if the station being received transmits a VPS/PDC signal

- Press -: until the channel position appears on the front display panel.
- Hold down START + for about 5 seconds. "VPS/PDC" appears blinking on the TV screen. If a VPS/PDC signal is detected from the station, "VPS/PDC" will stop blinking. If no VPS/PDC signal is detected from the station, 'VPS/PDC" will blink at a slower rate.
- 3 Press -:- or START + again to return to normal display.











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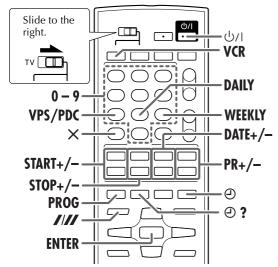
OPERATIONS ON VHS DECK (cont.)

Express Timer Programming

If you do not know the SHOWVIEW number for the programme you wish to record, use the following procedure to set your unit to timer-record the programme.

Before performing Express Timer Programming:

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



Example: To timer-record the programme from 21:00 to 22:00 on 25th December, on channel 1.

Select the VHS deck.

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

On the remote control

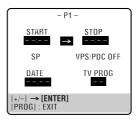
Press VCR so that the VCR indicator lights up.

Access the SHOWVIEW screen.

Press PROG.

Access the Programme screen.

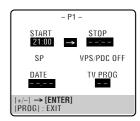
Press START +/-. (If you're just starting out, "P1" appears.)



Enter the programme 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.



Enter the programme stop time.

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

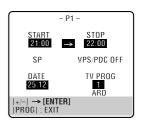
• Press and hold **STOP** +/- to move in 30-minute increments, or press and release repeatedly to move 1 minute at a time.

Enter the programme date.

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

Enter the channel position.

Press PR +/-.



Set the tape speed.

Press ////.

Set the VPS/PDC mode.

Press VPS/PDC (number key "7") to select "ON" or

- If "VPS/PDC ON" is displayed on the TV screen, "VPS/PDC" is
- If "VPS/PDC OFF" is displayed on the TV screen, "VPS/PDC" is set to "OFF" "VPS/PDC Recording" on page 25.

Return to the normal screen.

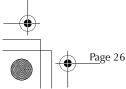
Press PROG or ENTER. "PROGRAM COMPLETED" appears on the TV screen for about 5 seconds, then the normal screen appears.

• Repeat steps **2** – **10** for each additional programme.

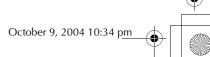
Engage the unit's timer mode.

Press ⊕. The unit turns off automatically and "⊕" appears on the front display panel.

• To disengage the timer mode, press @ again.







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— anytime during steps **1** through **2**, 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 programme this unit to timer-record as many as 8 programmes. If you try to programme the unit to record a ninth, "PROGRAM FULL" appears on the TV screen and "FULL" appears on the front display panel. To record the extra programme, you must first cancel any unnecessary programmes. (""To cancel or change a programme")
- If there is a conflict in the timer schedule and one programme overlaps with another, the programme starting earlier or programme with the lower programme number will be recorded.

Satellite Receiver Users

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

- Set "L-2 SELECT" to "A/V". (□ pg. 54)
- Perform steps **1 11**. Enter "L-2" for the channel position in step **2**.
- 3 Set the satellite receiver to the appropriate channel before the selected programme begins.
- 4 Leave the satellite receiver's power on.

Check, Cancel and Change Programmes

Disengage the timer mode.

Press ②, then press ७/।.

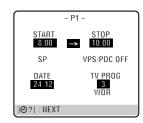
Access the Programme Check screen.

Press @ ?.

1 2 3 4 5 6 7 8	START 8:00 10:00 11:30	STOP 10:00 10:45 13:00	CH 3 2 1	DATE 24.12 25.12 25.12
e	?]:NEX1	Г		

Access the Programme screen.

Press ② ? again to check more information. Each time you press ② ?, the next programme's information appears.



To cancel or change a programme

Cancel or change a programme.

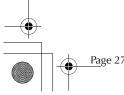
Press X to cancel a programme. To change programme settings, press the appropriate button: START +/-, STOP +/-, DATE +/-, PR +/-, VPS/PDC (number key "7"), DAILY (number key "8"), WEEKLY (number key "9") and/or ////.

Return to the normal screen.

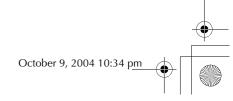
Press ② ? as many times as necessary. If there are still some programmes remaining, go on to step ⑤.

Return to the timer mode.

Press ②.





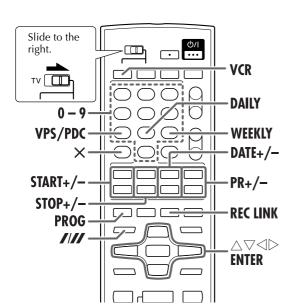




Masterpage:Left+

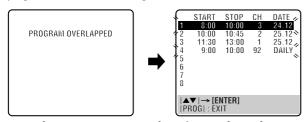
28 EN

OPERATIONS ON VHS DECK (cont.)



When Programmes Overlap Each Other

If "PROGRAM OVERLAPPED" appears, you have another programme overlapping the programme you have just made. The Programme Check screen appears and conflicting programmes will start blinking.



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

Confirm the overlapping programmes.

Overlapping programmes blink on the TV screen.

Select the programme to modify.

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

You can only select one of the overlapping programmes.

NOTE:

If you do not mind this overlap, press **PROG** to finish the timer programme setting. The programme with the lower programme 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 programme setting.

To cancel a programme, press X when the Programme 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 programme, press the appropriate button: START +/-, STOP +/-, DATE +/-, PR +/-, VPS/PDC (number key "7"), DAILY (number key "8"), WEEKLY (number key "9") and/or //// when the Programme screen on which you want to make changes is shown, then press ENTER. "PROGRAM COMPLETED" appears on the TV screen for about 5 seconds, then the normal screen appears.

NOTE:

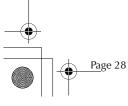
If the overlap is not yet solved, or another overlap occurs with the timer programme setting after making the last correction on a programme, the conflicting programmes will be shown on the Programme Check screen again. Repeat the above steps again until the overlap is solved.

Automatic Satellite Programme Recording

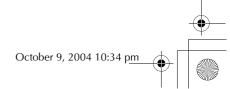
This function allows you to automatically record a satellite programme which is timer-programmed on your external satellite receiver. Connect a satellite receiver to the unit's L-2 IN/DECODER connector and programme the timer on the satellite receiver. The unit starts or stops recording by the signals input from the satellite receiver. After recording, the unit's power shuts off automatically.

ATTENTION

- Be sure not to turn on the satellite receiver before the programme is executed; otherwise, the unit will start recording when the satellite receiver's power is turned on.
- If you have connected another appliance other than a satellite receiver to the L-2 IN/DECODER connector, be sure not to engage the Automatic Satellite Programme Recording mode; otherwise, the unit will start recording when the connected appliance's power is turned on.
- Automatic Satellite Programme Recording and timerrecording cannot be done at the same time.

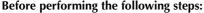






 Ψ





- Make sure the satellite receiver is connected to the unit's L-2 IN/DECODER connector. (Fig. 50)
- Programme the timer on the satellite receiver.
- Insert a cassette with the safety tab in place.
- Slide the TV/VCR/DVD switch on the remote control to the right.

Select the VHS deck.

On the unit

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

On the remote control

Press VCR so that the VCR indicator lights up.

2

Select the L-2 SELECT mode.

Set "L-2 SELECT" to "A/V" or "SAT." (pg. 54)

• When you select "SAT", refer to "IMPORTANT" on page 50.

3

Set the tape speed.

Press ////.

4

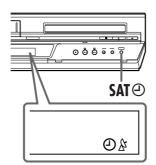
Engage the Automatic Satellite Programme Recording mode.

On the unit

Press and hold **SAT** of for about 2 seconds.

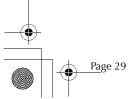
On the remote control Press and hold REC LINK for about 2 seconds.

 The "♣" and "⊕" indicators light up and the unit turns off automatically.

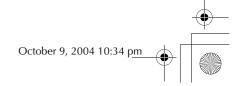


NOTES:

- Operations on the DVD deck are not possible when the Automatic Satellite Programme Recording mode is engaged or timer recording is in progress.
- To disengage the Automatic Satellite Programme Recording mode, press REC LINK. The "△" indicator goes off.
- If the unit's power is off, it is not possible to engage the Automatic Satellite Programme Recording mode.
- In step ■, if the "A" indicator does not light but instead blinks quickly even though your satellite receiver's power is off, Automatic Satellite Programme Recording will not work properly with that satellite receiver*. If this is the case, perform "Express Timer Programming" (□ pg. 26) to timer-record a satellite programme.
 - * Some satellite receivers output signals even if the power is off. Automatic Satellite Programme Recording is not possible with those satellite receivers.
- The "A" indicator blinks while Automatic Satellite Programme Recording is in progress.
- For timer programming of the satellite receiver, refer to the instruction manual of the satellite receiver.
- Automatic Satellite Programme Recording is not possible if your satellite receiver does not have a timer.
- Pressing the unit's U/I button while Automatic Satellite Programme Recording is in progress turns off the unit's power and disengages the Automatic Satellite Programme Recording mode.
- If there are more than one satellite programmes you wish to record with Automatic Satellite Programme Recording, it is not possible to set different tape speeds for each programme.
- Depending on the type of satellite receiver, the unit may not record a slight portion of the beginning of the programme or may record slightly longer than the actual length of the programme.
- If you engage the Automatic Satellite Programme Recording mode when the satellite receiver's power is on, the unit will not start Automatic Satellite Programme Recording even though the "♣" and "⊕" indicators blink. When the satellite receiver shuts off once and is turned back on again, the unit starts recording.
- You can also record a programme from your cable system in the same way if the system has a timer.
- The B.E.S.T. system (pg. 23) does not work while Automatic Satellite Programme Recording is in progress.
- Just Clock (pg. 65) does not work when the Automatic Satellite Programme Recording mode is engaged.















OPERATIONS ON DVD DECK

Basic Playback

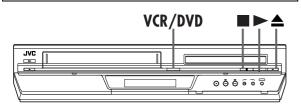


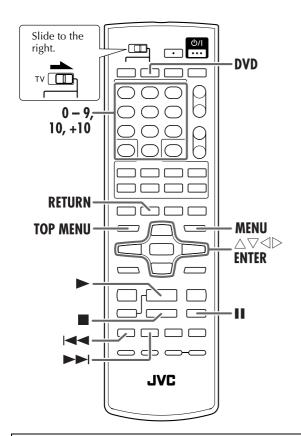






- Turn on the TV and select the video channel (or AV mode).
- Slide the **TV/VCR/DVD** switch on the remote control to the right.





ATTENTION

- You can not use the DVD deck when the VHS deck is in the Automatic Satellite Programme standby and recording mode.
- You can use the DVD deck when the VHS deck is in the timer standby mode.
- If the unit does not accept an operation,
 \infty appears on the
 TV screen. (Operations are occasionally unacceptable
 even if
 is not displayed.)

Load the disc.

• For details, refer to "Placing a Disc" (pg. 5).

Select the DVD deck.

On the unit

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

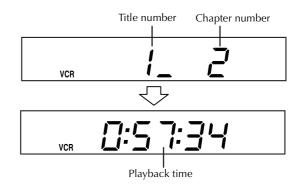
On the remote control

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

3 Start playback.

Press ►.

Example: DVD VIDEO



- You can switch the display on the front display panel between the title/chapter/track number and the playback time by pressing - -:- -.
- It may take a few seconds to start playback.
- When inserting a DVD or Video CD disc, a menu display may appear on the TV screen. To play back from the menu, refer to "Locating a Desired Scene Using the DVD Menu" (Fig. 31) or "Locating a Desired Scene Using the Menu of a Video CD/SVCD with Playback Control (PBC) Function" (Fig. 31).

Pause playback.

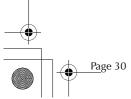
Press II.

• To resume normal playback, press ▶.

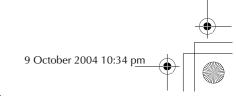
Stop playback.

Press

- When "RESUME" (F) pg. 57) is "ON" or "DISC RESUME," the
 unit memorizes the position on the disc where you have
 interrupted playback.
 - -To resume playback, press ►.
- -To stop playback completely, press again.
- Press
 on the DVD deck to open the disc tray, then remove the disc.













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

Locating a Desired Scene Using the DVD Menu



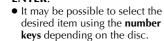
DVD VIDEO discs generally have their own menus which show the disc contents. These menus contain various items such as titles of movies, names of songs, or artist information, and display them on the TV screen. You can locate a desired scene using the DVD menu.

1 Access the DVD menu.

Press TOP MENU or MENU.

2 Start playback.

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





Example:

Locating a Desired Scene Using the Menu of a Video CD/SVCD with Playback Control (PBC) Function





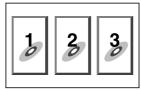
Some Video CD/SVCD discs support the PBC function. PBC is an abbreviation of "PlayBack Control." A Video CD/SVCD disc recorded with PBC has its own menus, such as a list of the songs on the disc. You can locate a specific scene by using the menu.

1 Access the PBC menu.

In stop mode

Press -

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



During playback Press **RETURN**.

2 Start playback.

Press the appropriate **number keys**.

- The unit starts playback of the selected item.
- When "NEXT" or "PREVIOUS" appears on the TV screen: Pressing ►►I advances to the next page.
 - Pressing | returns to the previous page.
- The method of the operation is different depending on the disc.

To cancel PBC

Start playback by using the **number keys** instead of **▶**.

To reactivate PBC

- Press TOP MENU or MENU.
- Press to stop playback, then press ►

Locating the Start Point of the Item or Skip the Item







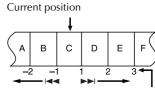


Press I or ▶►I during playback.

Example:

To locate the beginning of item B from the current position, press I◄ twice. To locate the beginning of item D from the current position, press ▶►I once.

 When the specified item is located, playback begins automatically.



The number you press the button

Using the number keys

For DVD VIDEO

- While stopped: title is selected.
- While playing back: chapter is selected.

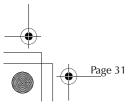
For Video CD/SVCD/Audio CD

Track is selected.

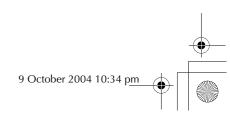
Examples:

To select 5, press the **number key "5."**

To select 25, press the **number key "+10," "+10," "then "5."**To select 40, press **number key "+10"** three times, then **"10."**





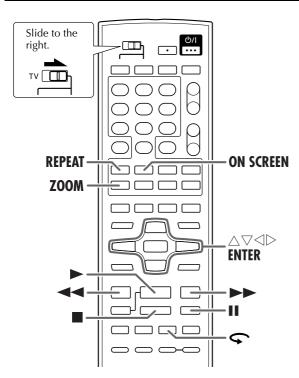






32 en

OPERATIONS ON DVD DECK (cont.)



Variable Speed Search









During playback, press ►► for forward variable speed search, or ◀◀ for reverse variable speed search.

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

OR

During playback, press and hold ►►I for forward variable speed search, or press and hold I◄◄ for reverse variable speed search.

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

NOTE:

During varirable speed search the sound will be muted except when playing an Audio CD disc or when playing a DVD VIDEO disc at 1.5x speed search mode.

One Touch Replay



Press

→ while playing back a DVD VIDEO disc.

The playback position moves back about 10 seconds before the current position (only within the same title).

Still Picture/Frame-By-Frame Playback







1 Pause during playback.

Press II.

2 Activate frame-by-frame playback.

Press II to advance a still picture.

To resume normal playback, press ►.

Slow Motion







During playback, press **II**, then press **◄** for reverse slow motion playback, or **▶▶** for forward slow motion playback.

- Each press of $\blacktriangleright \blacktriangleright$ changes the playback speed as follows: $1/32 \rightarrow 1/16 \rightarrow 1/4 \rightarrow 1/2$
- To resume normal playback, press ►.

NOTES:

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

Zooming

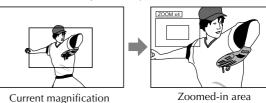






Press **ZOOM** during playback or while paused.

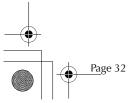
- Each press of **ZOOM** changes the magnification as follows:
- While zoomed, the picture may look coarse or distorted.



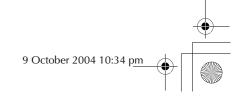
Press $\triangle \nabla \triangleleft \triangleright$ to move the zoomed-in scene.

 To resume normal playback, press ZOOM repeatedly to select the normal size.























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

DVD VIDEO: during playback or in stop mode Audio CD: during playback or in stop mode

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

disactivated

Access the repeat mode.

Press **REPEAT**.

• Repeat mode is displayed on the TV.

Select the repeat mode.

Press **REPEAT** repeatedly to select the desired repeat mode, then press **ENTER**.

DVD VIDEO

CHAP→TITLE→OFF→(Back to the beginning)

CHAPTER: The current chapter is played back repeatedly.

TITLE: The current title is played back repeatedly.

OFF: Each title and chapter is played back once.

Video CD/SVCD/Audio CD

TRACK→ALL→OFF→(Back to the beginning)

TRACK: The current track is played back repeatedly.

ALL: All tracks are played back repeatedly.

OFF: Each track is played back once.

To cancel Repeat Playback,

Press **REPEAT** repeatedly until "OFF" appears on the TV screen, then press **ENTER**.

NOTES:

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

A-B Repeat Playback









You can repeat the desired part. DVD VIDEO/Audio CD:during playback Video CD/SVCD:during playback with PBC disactivated

Access the on-screen bar.

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

Select the menu item.

Press $\triangleleft \triangleright$ to move \bowtie to $\stackrel{\bullet}{\smile}$, then press **ENTER**.

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



3 Select the repeat mode.

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

A. Select the start point.

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

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



Select the end point.

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

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

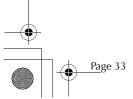
To cancel A-B Repeat Playback

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

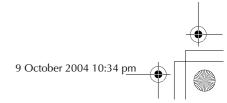
To clear the on-screen bar Press **ON SCREEN**.

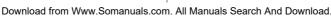
NOTE:

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

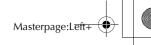






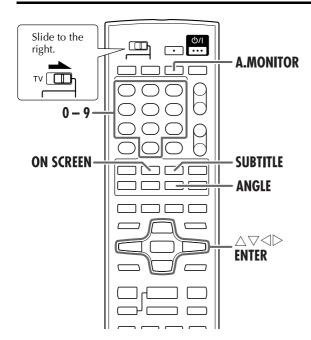








OPERATIONS ON DVD DECK (cont.)



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

DVD VIDEO/Audio CD: during playback or in stop mode Video CD/SVCD: during playback with PBC disactivated or in stop mode

1

Access the on-screen bar.

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

2

Select the menu item.

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

The following pop-up window appears under the selected item



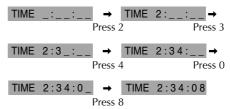
3

Select the time.

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

Example:

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



If you have specified a wrong selection,

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

• The unit starts playback from the specified time.

To clear the on-screen bar Press ON SCREEN.

NOTES:

- Some DVD VIDEO discs do not contain time information, and it is not possible to use the Time Search function.
- Time Search cannot be used during Programme and Random Playback.

Subtitle Selection





You can select subtitle language.

During playback

П

Access the menu.

Press **SUBTITLE**.

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

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



Select the subtitle language.

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

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

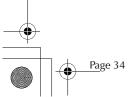
NOTES:

• For DVD VIDEO

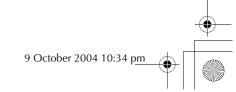
Some subtitle languages are abbreviated in the pop-up window. See "Language Code List" (pg. 17).

• For SVCD

An SVCD can contain up to four subtitles. Pressing **SUBTITLE** changes the subtitles regardless of whether the subtitles are recorded or not.















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.

During playback

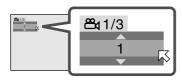


Access the menu.

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.



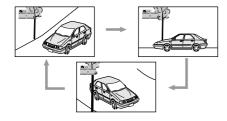
Select the view angle.

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

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

Example:

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



Audio Language and Sound Selection







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

During playback

Access the menu.

Press A.MONITOR.

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

Example: "ENGLISH" is selected out of 3 audio languages recorded during DVD VIDEO playback.



2 Select the audio language.

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

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

DVD VIDEO (example)

1/3 ENGLISH→2/3 FRENCH→3/3 SPANISH→(Back to the beginning)

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.

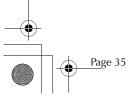
SVCD

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

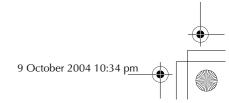
ST 1/ST 2:	To listen to normal stereo playback of ST 1 or ST 2 channel.
L 1/L 2:	To listen to the L (left) 1 or 2 audio channel.
R 1/R 2:	To listen to the R (right) 1 or 2 audio channel.

NOTE:

For DVD VIDEO disc, some audio languages are abbreviated in the pop-up window. See "Language Code List" (F pg. 17).







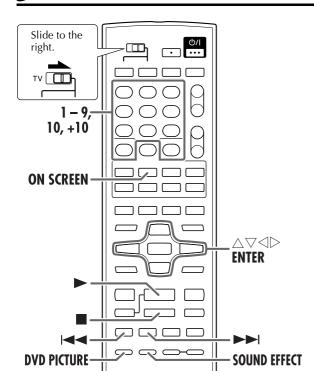








36 EN



Programme Playback







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

Access the on-screen bar.

Press ON SCREEN twice in stop mode.

Select the menu item.

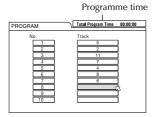
Press $\triangleleft \triangleright$ to move \bowtie to PROG., then press **ENTER**.

• The programme table appears under the on-screen bar.



Select the tracks in the desired order.

Press the appropriate number keys to select the tracks.



OPERATIONS ON DVD DECK (cont.)

Examples:

- To select track 5, press the **number key "5."**
- To select 25, press the **number key "+10," "+10,"** then
- To select 40, press **number key "+10"** three times, then

If you have specified a wrong selection

Press $\triangle \nabla$ to move \boxtimes to the track to be corrected, then press \blacksquare . The track is erased and the next programmed tracks move up.

Start playback.

Press ►. Playback starts in the selected order.

- With an Audio CD disc, the programme table remains on the
- When all of the programmed tracks have been played back, Programme Playback stops, but the programmed information remains.

To check the programme contents

During playback, press ■. Playback stops and the programme table appears on the TV screen.

 You can also check the programme contents through the onscreen bar during playback.

To clear the programme

Press ■ while playback is stopped and the programme table appears on the TV screen.

To exit from Programme Playback

After clearing the programme, press ON SCREEN.

Random Playback







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

Access the on-screen bar.

Press **ON SCREEN** twice in stop mode.

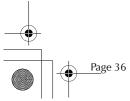
Select the menu item.

Press $\triangleleft \triangleright$ to move \bowtie to RND., then press **ENTER**.

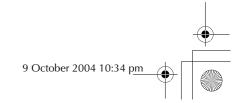
Playback starts in random order.



To clear the on-screen bar Press ON SCREEN.











Sound Effect









Using the Sound Effect function, you can change the sound field. • This function works only for analog audio output.

Access the selection menu.

Press **SOUND EFFECT** during playback.

• The current setting appears on the TV screen.

Select the Sound Effect mode.

Press **SOUND EFFECT** repeatedly to select the desired

- Each time you press **SOUND EFFECT**, the Sound Effect mode changes as follows: SOUND EFFECT:1→SOUND EFFECT:2→ SOUND EFFECT:3 \rightarrow OFF \rightarrow (Back to the beginning)
- As the value becomes bigger, the Sound Effect works stronger.
- The selection menu disappears if no operation is done for about several seconds.

To deactivate Sound Effect

Press **SOUND EFFECT** repeatedly until "OFF" appears on the TV screen.

VFP Function

Adjusting the Picture Quality







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

Access the VFP setting menu.

Press **DVD PICTURE** during playback.

 The current setting appears on the TV screen.



Select the VFP mode.

Press $\triangleleft \triangleright$ repeatedly.

ullet Each time you press $\dot{\triangleleft} \triangleright$, the VFP mode changes as follows: NORMAL→CINEMA→USER 1→USER 2→(Back to the beginning)

NORMAL:	For watching TV in a general room.
CINEMA:	For watching a movie software in a room with suppressed light.
USER 1/ USER 2:	You can adjust parameters that affect the picture appearance and store the settings. Go to step 3 .

To adjust picture appearance manually

Access the USER menu.

Press
□ Prese
□ Prepeatedly to select "USER 1" or "USER 2."

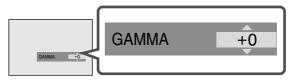
Select the parameter.

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

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

GAMMA (LOW/MID/ HIGH):	Adjust this if the neutral color is bright or dark The brightness of dark and bright portions is maintained.
BRIGHTNESS (-16 to +16):	Adjust this if the picture is bright or dark on the whole.
CONTRAST (-12 to +12):	Adjust this if the objects in far and near positions look unnatural.
SATURATION (-16 to +16):	Adjust this if the picture is whitish or blackish
TINT (-16 to +16):	Adjust this if the appearance of flesh tone is unnatural.
SHARPNESS (LOW/ HIGH):	Adjust this if the picture is indistinct.
Y DELAY (-2 to +2):	Adjust this if the picture looks separately or overlapped.

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



Adjust the parameter.

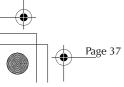
Press $\triangle \nabla$ repeatedly to change the setting, then press

• The current VFP settings appear again. Repeat steps **4** and **5** to adjust other parameters.

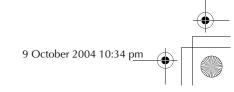
To return to the normal screen Press **DVD PICTURE**.

NOTE:

The VFP setting screen disappears if no operation is done for more than about 10 seconds.













OPERATIONS ON DVD DECK (cont.)

Using the On-Screen Bar

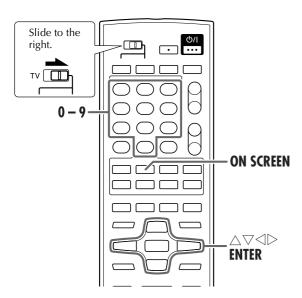








You can check disc information while the disc is loaded and you can use some functions using the on-screen bar. The on-screen bar allows you the various playback operations.

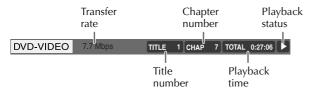


How to Access the On-Screen Bar

Access the status bar.

Press **ON SCREEN** when a disc is loaded. The status bar appears on the TV screen.

Example: During DVD VIDEO playback



Access the menu bar.

Press **ON SCREEN** again. The menu bar appears under the status bar.



To clear the on-screen bar Press ON SCREEN.

Basic Operation on the Menu Bar

1

Access the menu bar.

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

• The currently selected item is highlighted.



2 Select the menu item.

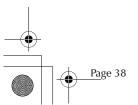
Press $\triangleleft \triangleright$ to move \bowtie to the item you want to work with, then press **ENTER**.

After pressing ENTER

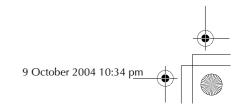
- When a pull-down menu appears, press △

 To select the setting you want, then press ENTER.
- When a number-entry box appears, use the number key to enter the number you want, then press ENTER.
- When changing the indication of playback time, press ENTER repeatedly to select the setting you want.

For details about each function, see page 39.







Masterpage:Right-No-Heading



Menu Bar Functions for DVD VIDEO

■ TIME Time mode selection

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

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

Selects the repeat mode during playback.

- CHAPTER: Current chapter repeat
- TITLE: Current title repeat
- A-B: A-B repeat
- OFF: Repeat mode deactivated

■ Time search (See also page 34)

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

■ CHAP. → Chapter search

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

Audio selection (See also page 35)

During playback, selects the audio language or sound track.

■ Subtitle selection (See also page 34)

During playback, selects the subtitle language.

Angle selection (See also page 35)

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

Menu Bar Functions for SVCD/Video CD/Audio CD

■ TIME Time mode selection

Selects the time mode shown in the status bar and on the front display.

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

Selects the repeat mode.

- TRACK: Current track repeat
- ALL: All track repeat
- **A-B**: A-B repeat
- OFF: Repeat mode deactivated

■ ② → Time search (See also page 34)

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

PROG. Program playback (See also page 36)

While stopped, specifies the playback order of tracks.

■ RND. | Random playback (See also page 36)

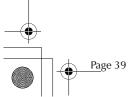
While stopped, activates random playback.

Audio selection (See also page 35)

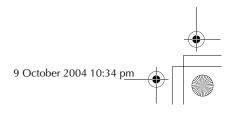
During Video CD/SVCD playback, selects the audio channel(s).

■ Subtitle selection (See also page 34)

During SVCD playback, selects the subtitle.















40 EN

Audio/Video Files Playback

Outline

This unit can play back MP3 and JPEG files on a personally recorded on CD-R/RW and commercially available CD disc. This unit can also play back DivX files recorded on CD-R/RW and DVD-R/-RW disc. Some DVD-R and DVD-RW discs mastered as multi border (multi-session) may not be compatible with the unit

 This unit may be unable to play back the disc due to the characteristics or recording conditions.

Precautions

About files and folders (groups) on the disc

- The unit recognizes up to the fifth layer of groups, 999 files per group, and up to 250 groups per disc. Files other than MP3/ JPEG/DivX files count in the 999 total.
- Add the appropriate extension, such as "avi," "divx," "jpeg," and "mp3," to the file name.

For making your own disc:

- Use "UDF format" as the disc format for DVD-R/-RW.
- Use "ISO 9660" as the disc format for CD-R/RW.
- The unit does not support "packet writing" for CD-R/RW.
- The unit supports discs recorded with up to five multiple sessions.

For MP3 files:

MP3i and MP3 Pro are not available.

For JPEG files:

The unit cannot play back a picture of more than 5120 x 3413 pixels (baseline JPEG) or 2048 x 1536 pixels (progressive JPEG).

For DivX files

- The unit supports DivX 5.x, 4.x and 3.11.
- The unit supports the DivX files whose resolution is 720 x 480 pixels or less (30 fps), and 720 x 576 pixels or less (25 fps).
- Audio stream should conform to MPEG 1 Audio Layer-2 or MPEG Audio Layer-3 (MP3).
- The unit does not support GMC (Global Motion Compression) and Q-Pel (Quarter Pixel).
- The file encoded in the interlaced scanning mode may not be played back correctly.
- The unit has its own Registration Code for DivX playback. If necessary, you can confirm the Registration Code of your player using the OTHERS menu screen. (pg. 57)

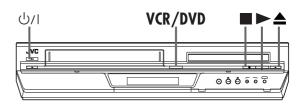
Basic Operations

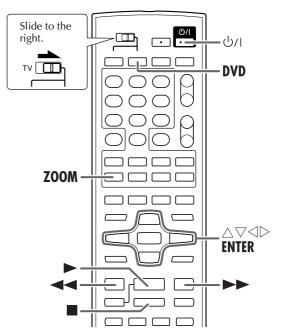
When you insert a disc with groups and files, the Control display that shows the contents of the disc automatically appears on the TV screen.

OPERATIONS ON DVD DECK (cont.)

You can specify and play back the desired group/file from the Control display using the following procedure.

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





П

Turn on the unit.

Press ധ്വ

2

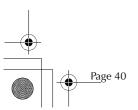
Select the DVD deck.

On the unit

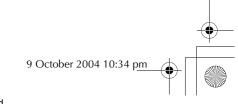
Press **VCR/DVD** repeatedly so that the DVD indicator lights up.

On the remote control

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







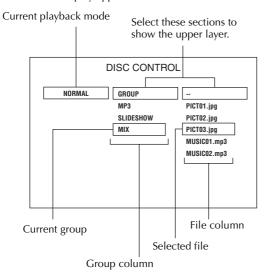


Masterpage:Right-No-Heading



Load the disc.

- ullet For details, refer to "Placing a Disc" (llet pg. 5).
- The Control display appears on the TV.



Select a group.

Press $\triangleleft \triangleright$ to select the desired group, then press **ENTER**.

Start playback.

Press $\triangle \nabla$ to select the desired file, then press **ENTER** or

- \blacktriangleright
- When press **ENTER**, the unit play the selected file.
- When press ▶, the unit start continuous playback of the group from the selected file.

6 Stop playback.

Press

. The Control display appears on the TV screen.

 Press on the DVD deck to open the disc tray, then remove the disc.

To reverse or advance DivX file playback rapidly During playback of DivX file, press ◀◀ or ▶►.

Each time you press ◄ or ► , the playback speed changes

with the following indication on the TV screen: 441/1 + 1 + 441/1 + 441

 $4 \times 1/$ $1 \rightarrow 4 \times 2/$ $2 \rightarrow 4 \times 3/$ $3 \rightarrow 4 \times 4/$ The higher the value is, the faster the playback speed is.

Zooming

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

- Each time you press **ZOOM**, the magnification changes:
 - 2 times for DivX files
 - 1.5, 2 times, and 4 times for JPEG files (4 times magnification for JPEG file is possible only when its resolution is 640×480 pixels or more.)

Rotating/Reflecting a Still Picture

While a still picture is played back:

- Pressing < > rotates the picture by 90°.
- ullet Pressing \triangle reflects the picture vertically.

Repeat Playback

Change the playback mode.

Press $\triangleleft \triangleright$ to select the current playback mode on the Control display.

Select the repeat mode.

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

REPEAT 1:	The current file is played back repeatedly.
REPEAT GROUP:	The all files in the current group are played back repeatedly.
REPEAT ALL:	All files on the disc is played back repeatedly.

Start Repeat Playback.

Press $\triangleleft \triangleright$ to move the cursor bar to the file column, then press \blacktriangleright .

To cancel Repeat Playback,

Select "NORMAL" in step 2 above.

Random Playback

Change the playback mode.

Press $\triangleleft \triangleright$ to select the current playback mode on the Control display.

Select the random playback mode.

Press **ENTER** repeatedly to select "RANDOM."

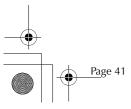
Start Random Playback.

Press $\triangleleft \triangleright$ to move the cursor bar to the file column, then press \blacktriangleright .

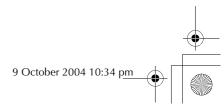
• All files in the selected group are played back in random order.

To cancel Random Playback,

Select "NORMAL" in step 2 above.





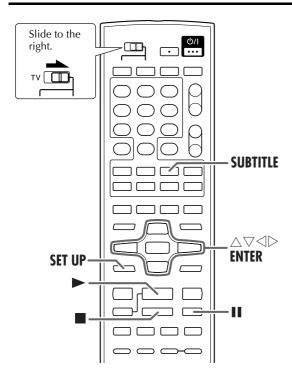








OPERATIONS ON DVD DECK (cont.)



Programme Playback

Change the playback mode.

Press $\triangleleft \triangleright$ to select the current playback mode on the Control display.

Select the programme playback mode.

Press ENTER repeatedly to select "PROGRAM."

Select files.

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

- Repeat step 3 until all the desired files are programmed.
- To erase the last programmed file, press S > to move the cursor bar to the programmed file column, then press ■.

Start Programme Playback.

Press >

To cancel Programme Playback, Select "NORMAL" in step **2** above.

Slide Show Playback (JPEG Files)

You can display JPEG files (still pictures) one after another automatically.

Press ► while a JPEG file is selected on the Control display.

To keep showing the current picture Press II

Changing the Picture of the Opening Display

You can change and set the opening display to your favorite image.

- Play back a JPEG file of your favorite image.
- Access the PICTURE menu screen.

 Press SET UP, then press $\triangleleft \triangleright$ to show the PICUTRE

menu screen.

Select "BACKGROUND."

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

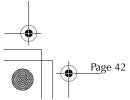
Select "SAVE AS BACKGROUND."

Press $\triangle \nabla$ to select "SAVE AS BACKGROUND," then press ENTER.

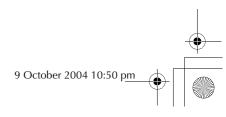
8 Register your image.

Press $\triangle \nabla$ to select "YES," then press **ENTER**. The player starts reading the JPEG file, and the opening screen is changed after reading the file.

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









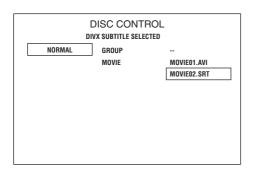
Load a disc containing DivX files and associated subtitle files.

The Control display like the following appears on the TV screen.

D	ISC CONTROL	
NORMAL	GROUP	
	MOVIE	MOVIE01.AVI
		MOVIE02.SRT

Select a subtitle file.

Press $\triangle \nabla$ to select a subtilte file (having ".SRT" extension), then press **SUBTITLE**.



3 Select a DivX file.

Press $\triangle \nabla$ to select a DivX file (.AVI) you want to play.

Start playback.

Press **ENTER** or **▶**.

The selected DivX file is played back with the associated subtitle.

NOTES:

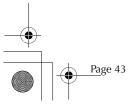
 During playback, press SUBTITLE to select available fonts from the following:

LATIN 1, LATIN 2, CYRILLIC, SUBTITLE OFF

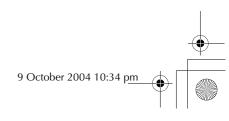
- LATIN 1 (ISO 8859-1) font supports the following languages: Danish, Dutch, English, Finnish, French, German, Italian, Norwegian, Spanish, Swedish
- LATIN 2 (ISO 8859-2) font supports the following languages: Czech, Hungarian, Polish
- CYRILLIC (ISO 8859-5) font supports the following language: Russian

Some other languages than above which are also supported by LATIN 1, LATIN 2, or CYRILLIC are not available on this unit.

- A DivX file and the associated subtitle file must be in the same folder.
- Only subtitles whose file extension is ".SRT" can be displayed.
- The subtitle may not be displayed if a font of the subtitle is not supported by the player.
- Once you stop playback, the subtitle is disabled. You need to select the subtitle file again to play back the DivX file with subtitle.
- During repeat playback, when playback returns to the beginning of the DivX file, subtitle is disabled.













44 EN

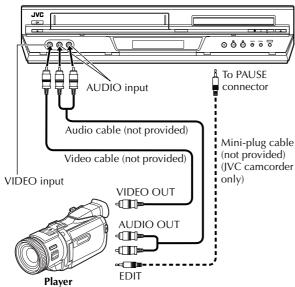
EDITING (VHS DECK)

Editing from a Camcorder

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

Slide the TV/VCR/DVD switch on the remote control to the right.

Recorder



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.

Select the VHS deck.

On the unit

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

On the remote control

Press VCR so that the VCR indicator lights up.

Set the unit's input mode.

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

Set the edit mode.

See "PICTURE CONTROL" on page 53.

Engage the Record Pause mode.

Use \triangleright , $\triangleleft \triangleleft$, or $\triangleright \triangleright$ to locate the point where you start recording, then press and hold **■** and press • to engage the Record Pause mode.

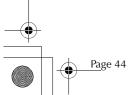
Start the camcorder.

Engage the Play mode of the camcorder.

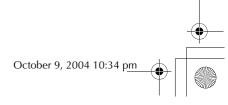
Start the unit.

Press ► to engage the Record mode of the unit.

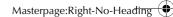
- All necessary cables can be obtained from your dealer.
- When you select "EDIT" to dub tapes in step ■, be sure to select "AUTO" (or "NORM" when "B.E.S.T." is set to "OFF") after you finish dubbing the tapes.











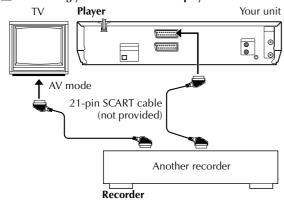




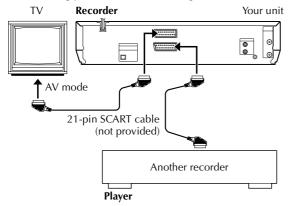
Editing to or from Another Video Recorder

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

■ When using your unit as the source player:



2 When using your unit as the recording deck:



Slide the **TV/VCR/DVD** switch on the remote control to the right.

1

Make connections.

Connect the player's 21-pin SCART connector to the unit's 21-pin SCART connector as illustrated.

- When using your unit as the source player:
 connect its L-1 IN/OUT connector to the recording deck.
- When using your unit as the recording deck: — connect its L-1 IN/OUT or L-2 IN/DECODER connector to the source player.

2 Select the VHS deck.

On the unit

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

On the remote control

Press VCR so that the VCR indicator lights up.

Set the input mode of recording deck.

With this unit, press **AUX** (**number key "0"**) and/or **PR** to select "L-1" for the L-1 IN/OUT connector, or "L-2" for the L-2 IN/DECODER connector, depending on the connector being used.

- When using another recorder as the recording deck, refer to its instruction manual.
- When using the L-2 IN/DECODER connector, set "L-2 SELECT" to "AV". (□ pg. 54)
- Set the edit mode.

See "PICTURE CONTROL" on page 53.

Engage the Record Pause mode of the recording deck.

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

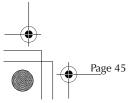
Start the source player.

Engage the Play mode of the source player.

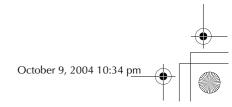
7 Start the recording deck.

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 "AUTO" (or "NORM" when "B.E.S.T." is set to "OFF") after you finish dubbing the tapes.
- When you use this unit as the source player for editing, be sure to set "O.S.D." to "OFF" before starting. (pp. 53)













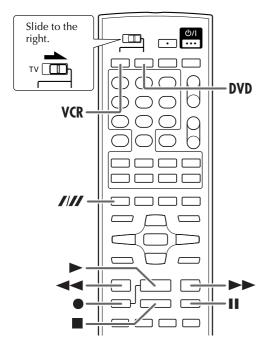
EDITING (VHS DECK) (cont.)

Dubbing (from DVD to VHS)

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 copy-protected discs. In such case, "ERROR" appears on the front display panel.

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



Load a cassette and place a disc.

For the VHS deck

Insert a cassette with the record safety tab intact.

For the DVD deck

- Press ♠ on the DVD deck to open the disc tray.
- 2 Place the disc in the disc tray.
- 3 Press ♠ on the DVD deck to close the disc tray.

Prepare the VHS deck for dubbing.

- 1 Press VCR.
- 2 Press //// to select recording speed.
- Search for the point where you want to start dubbing by pressing ▶, ▶▶ or ◄◄ then press ■.

3 Prepare the DVD deck for dubbing.

- 1 Press **DVD**.
- 2 Start playback and search for the point where you want to start dubbing by pressing ▶, ▶▶ or ◄◄.

4. Start dubbing.

A little before the dubbing start point, press and hold ●, then press ► on the remote control.

• "dub" lights on the front display panel.

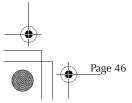


5 End dubbing.

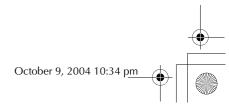
Press

- Be sure to press while the VCR indicator lights up on the unit
- If you press or ▲ with the DVD deck selected, the dubbing stopped, but the opening screen is also recorded.
- When you have finished dubbing, press DVD to select the DVD deck and press ■ to stop playback.

- Set "ON SCREEN GUIDE" to "OFF" (F) pg. 57) 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.

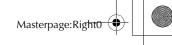










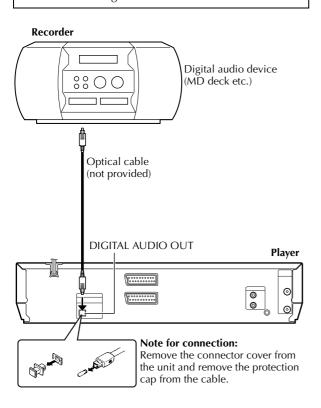




EDITING (DVD DECK)

Digital Audio Dubbing

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



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

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

Example: Dubbing to an MD

Make

Make connections.

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

Place a disc and load an MD.

For the DVD deck

- Press ♠ on the DVD deck to open the disc tray.
- 2 Place the disc in the disc tray.
- $\boxed{3}$ Press \triangle on the DVD deck to close the disc tray.

For the digital audio device Insert an MD.

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 ▶, ▶▶ or ◄◄ then press ■.
- 3 Press ◄ a little, then press ► to start playback.
- Press II to pause playback a little before the start point.

Prepare the audio device for dubbing.

Select the input mode.

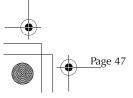
5 Start dubbing.

- Press ► to start playback on the DVD deck.
- 2 Start recording on the audio device.

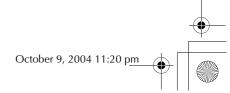
6 End dubbing.

Stop recording on the audio device. Then press \blacksquare to stop playback on the DVD deck.

- There may be a discrepancy of several seconds between where you intend editing to start, and where it actually starts.
- You can also dub audio from a Video CD or SVCD. Set "DIGITAL AUDIO OUTPUT" to "PCM ONLY". (Fig. 56)















REMOTE CONTROL

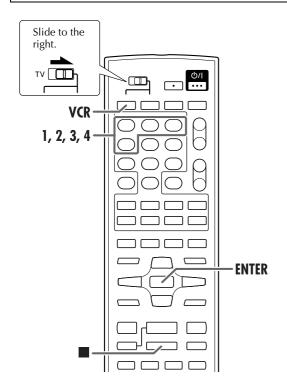
Remote Control Functions

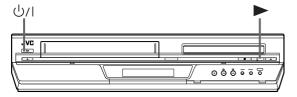
Remote A/B/C/D Code Switching

The remote control is capable of controlling four JVC video units independently. Each of the 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 on the remote control to the right.





On the remote control

Keep pressing **VCR** down during steps ■ – **2**.

Change the remote control code.

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

Set the remote control code.

Press **ENTER** to set the code.

On the unit

Turn off the unit.

Press 心/1.

Display the code.

Press ▶ on the unit for over 5 seconds while the unit is turned off. The code currently set appears on the front display panel.

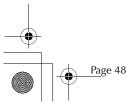
 If the code displayed on the front display panel is different from the code set on the remote control, go to step 5.

Change the unit's code.

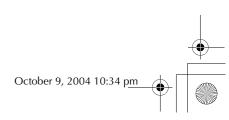
Press ■ on the remote control. The code currently set on the remote control will be applied to the unit.

NOTE:

When "POWER SAVE" is set to "ON" (pg. 54), it is impossible to change the remote code.







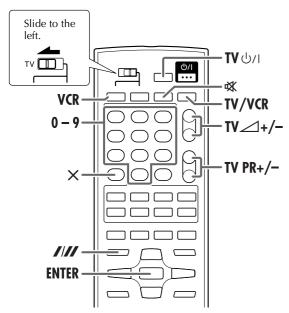


TV Multi-Brand Remote Control

Your remote control 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 control.
- Slide the TV/VCR/DVD switch on the remote control to the left.



IMPORTANT

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

Control Your TV Using Additional Buttons

Use the **number keys**, and the \emph{IIII} button or X button to select the TV's channel.

- With televisions under Code 01, 02, 07, 10, 11, 14, 20, 23, 24, 25, 27, 33 or 35, the //// button corresponds to the 1-digit/2-digit entry switching button (often labelled /– –) of your TV's remote control.
- With televisions under Code 01, 28, 29 or 34, the X button corresponds to the 10 + button of your TV's remote control.

NOTE:

The way these buttons are used is determined by your TV. Use these buttons as instructed for your TV's remote control.

Set the TV brand code.

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

Press **TV** 0/1 on the unit's remote control to turn on the TV and try operations (step **2**).

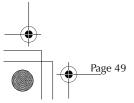
- Once you have set the remote control to operate the TV, you
 do not have to repeat this step until you replace your remote
 control's batteries.
- Some brands of TVs have more than one code. If the TV does not function with one code, try entering another.

2 Operate the TV.

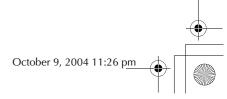
Press the corresponding button: **TV** U/I, **TV/VCR**, **TV** ∠ +/- (Volume), **TV PR** +/-, ເ≪ (TV Muting), **number keys**.

 For some brands of TVs, you must press ENTER after having pressed the number keys.

Brand name	Code
JVC BLAUPUNKT BRANDT FERGUSON FINLUX FUNAI LG/GOLDSTAR GRAETZ GRUNDIG HITACHI ITT LUXOR MITSUBISHI MIVAR	01, 23, 24, 25 19 26 27 30 32 18 28 19 10 28 28 03 29
NEC NOKIA NORDMENDE PANASONIC PHILIPS SABA SALORA SAMSUNG SELECO SHARP SONY TELEAVIA TELEFUNKEN THOMSON TOSHIBA	20 31 26 11 02 26 28 02, 12, 33, 34, 35 28 06 07 26 26 26 26

















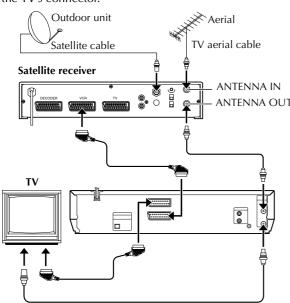
SYSTEM CONNECTIONS

Connecting to a Satellite Receiver

Simple Connections

This is an example of a simple connection if your TV has one 21-pin AV input (SCART) connector.

Connect the satellite receiver to the L-2 IN/DECODER connector, then connect the L-1 IN/OUT connector to the TV's connector.



IMPORTANT

When you set "L-2 SELECT" to "SAT" (F pg. 54), it is possible to view a satellite broadcast with the TV set to its AV mode even if the unit is turned off. When the unit is in Stop mode or recording, press TV/VCR on the remote control to turn off the VCR indicator on the front display panel.

• If you turn on the unit when the satellite receiver's power is off, nothing appears on the TV screen. In this case, turn on the satellite receiver, or set the TV to its TV mode, or press TV/VCR on the remote control to set the unit to the video mode.

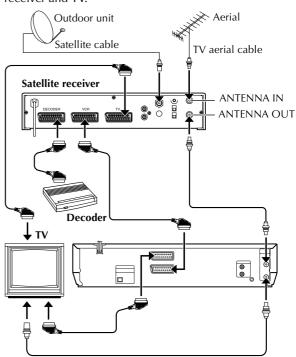
NOTES:

- Set "L-2 SELECT" to "A/V". (□ pg. 54)
- You can use the Automatic Satellite Programme Recording function (F) pg. 28) with this connection. (VHS deck only)
- To record a programme via the satellite receiver, select L-2 mode by pressing AUX (number key "0") and/or PR so that "L-2" appears on the front display panel. (VHS deck only)
- For details, refer to the instruction manual of the satellite

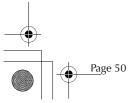
Perfect Connections

This is an example of recommended connections if your TV has two 21-pin AV input (SCART) connectors.

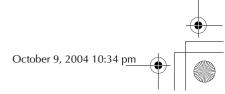
Connect the decoder to the satellite receiver's connector if you have a decoder, L-1 IN/OUT connector to TV's connector, and L-2 IN/DECODER connector to the satellite receiver's connector. Then connect the satellite receiver and TV.

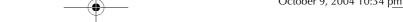


- Set "L-2 SELECT" to "A/V". (© pg. 54)
- You can use the Automatic Satellite Programme Recording function (F pg. 28) with this connection. (VHS deck only)
- To record a programme via the satellite receiver, select L-2 mode by pressing AUX (number key "0") and/or PR so that "L-2" appears on the front display panel. (VHS deck only)
- To receive a scrambled broadcast, descramble the signal with the decoder connected to the satellite receiver.
- For details, refer to the instruction manual of the satellite receiver and decoder.





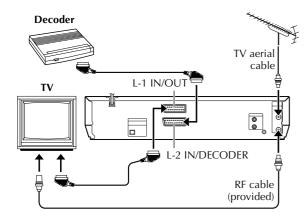






Connecting/Using a Decoder

The L-2 IN/DECODER connector can be used as an input connector for an external decoder (descrambler). Simply connect a decoder and you can enjoy the variety of programming that is available through scrambled channels.



Select the input mode.

Set "L-2 SELECT" to "DECODER". (F pg. 54)

Connect the decoder.

Connect your unit's L-2 IN/DECODER connector to the decoder's 21-pin SCART connector using a 21-pin SCART cable.

Set the tuner.

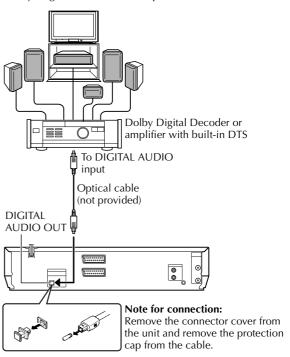
Perform the procedure as described in "When Receiving a Scrambled Broadcast" on page 61.

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 a Dolby Digital Decoder or an amplifier with built-in DTS.

Make connections.

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

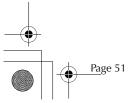


NOTES:

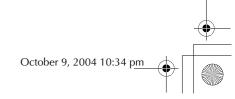
- For Dolby Digital sound, set "DIGITAL AUDIO OUTPUT" to "DOLBY DIGITAL/PCM". (□ pg. 56)
- For DTS sound, set "DIGITAL AUDIO OUTPUT" to "STREAM/ PCM". (☐ pg. 56)

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.











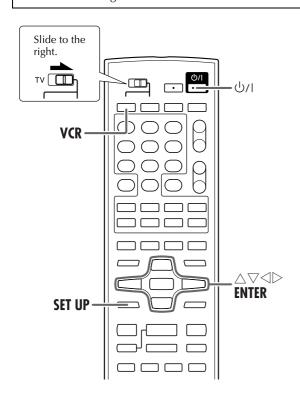


SUBSIDIARY SETTINGS

Mode Set (VHS deck)

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

- For each mode setting, see pages 53 to 54.
 - Turn on the TV and select the video channel (or AV mode).
 - Slide the **TV/VCR/DVD** switch on the remote control to the right.



Turn on the unit.

Press 心/l.

Select the VHS deck.

On the unit

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

On the remote control

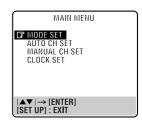
Press VCR so that the VCR indicator lights up.

Access the Main Menu screen.

Press **SET UP**.

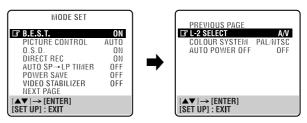
Access the Mode Set screen.

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



5 Select the mode.

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

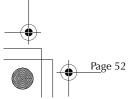


Select the mode setting.

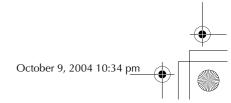
Press **ENTER** or \triangleright .

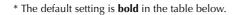
Return to the normal screen.

Press **SET UP**.









■ B.E.S.T. — ON / OFF

You can set the B.E.S.T. (Biconditional Equalised Signal Tracking) system to "ON" or "OFF". (F) pg. 23)

NOTES:

- When watching a tape recorded with "B.E.S.T." set to "ON", it is recommended that you leave B.E.S.T. on during playback as
- When watching a rental tape or one recorded on another video recorder, or when using this unit as the player for editing, set B.E.S.T. to your preference.
- The B.E.S.T. system works for both SP and LP modes only after a tape has been inserted and the Record mode is first initiated. It does not work during recording
- The B.E.S.T. system does not work while Automatic Satellite Programme Recording is in progress. (F pg. 28)
- In the case of timer recordings, the B.E.S.T. system works before recording is initiated.
- Once the cassette is ejected, the B.E.S.T. data is cancelled. The next time the cassette is used for recording, B.E.S.T. is reperformed.
- Pressing the unit's button while "BEST" is displayed does not start Instant Timer Recording. (F) pg. 22)

■ PICTURE CONTROL — AUTO / EDIT / SOFT

This feature helps you to adjust the playback picture quality according to your preference. Normally select "AUTO."

AUTO: Provides the optimised picture benefits of the B.E.S.T. Picture System.

EDIT: Minimizes picture degradation during editing (recording and playback).

SOFT: Reduces image coarseness when viewing overplayed tapes containing a lot of noise.

- When you select "EDIT" or "SOFT," the selected mode will not change until you select another mode.
- When you select "EDIT" to dub tapes, be sure to select "AUTO" after you finish dubbing the tapes.

 • When "B.E.S.T." is "OFF", "PICTURE CONTROL" switches
- automatically from "AUTO" to "NORM."

■ **0.S.D.** — **0N** / OFF

When this function is set to "ON," various operational indicators appear on the TV screen. Messages appear in the selected language. (F) pg. 10, 15)

NOTES:

- When you use this unit as the source player for editing, be sure to set "O.S.D." to "OFF" before starting.
- During playback, the operation mode indicators may be disturbed depending on the type of tape being used.

■ DIRECT REC — ON / OFF

When this function is set to "ON," you can easily start recording the programme that you are watching on your TV. Press and hold and press ➤ on the remote control, or press ● on the unit.

NOTES:

- When you use the Direct Rec function, be sure to use a TV offering T-V LINK, etc. and connect a fully-wired 21-pin
- SCART cable between the unit and the TV. (□ pg. 9)

 If "DIRECT REC" is set to "OFF", the button functions as described in "Basic Recording" (□ pg. 21).
- During Direct Rec, "--" appears on the front display panel.
- When "DIRECT REC" is set to "ON", if you press any button just after pressing ● on the unit (or ● and ► on the remote control), the unit may not function properly.

■ AUTO SP→LP TIMER — ON / OFF

When this function is set to "ON", the unit automatically switches to LP mode to allow complete recording if there is not enough tape to record the entire programme while timerrecording in SP mode.

For Example:

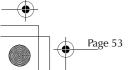
Recording a programme of 210 minutes in length onto a 180minute tape

Approximately 150 minutes	Approximately 60 minutes	
SP mode	LP mode	
Total 210 minutes		

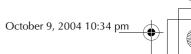
Make sure you set this function to "ON," before the timerrecording starts.

- If you have programmed the unit to timer-record 2 or more programmes, the second programme and those thereafter may not fit on the tape if you set "AUTO SP-LP TIMER" to "ON." In this case, make sure the mode is not engaged, then set the tape speed manually during timer programming.
- In order to ensure that the recording fits on the tape, this feature may leave a slight non-recorded section at the end of the tape.
- There may be some noise and sound disturbance at the point on the tape where the unit switches from SP to LP mode
- The Auto SP→LP Timer feature is not available during ITR (Instant Timer Recording), and the feature will not work properly with any tapes longer than E-180, or with some tapes of shorter lengths.
- If you perform timer recording with both VPS/PDC and the Auto SP→LP Timer activated, and the programme goes beyond its originally scheduled length, there may be times when the programme cannot be recorded in its entirety.

















SUBSIDIARY SETTINGS (cont.)

■ POWER SAVE — ON / OFF

When this function is set to "ON," you can reduce the power consumption while the unit is turned off.

NOTES:

- During Power Save mode:
- the front display panel will be turned off.
- the Just Clock function (F) pg. 65) does not work.
- the picture may be distorted momentarily when you turn on/off the unit.
- Power Save does not work when:
 - the unit is in the timer mode.
 - the unit's power is turned off after timer-recording or Instant Timer Recording.
- the Automatic Satellite Programme Recording mode is engaged. (F pg. 28)
- "L-2 SELECT" is set to "DECODER" or "SAT". (pg. 54)

■ 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."

■ L-2 SELECT — A/V / DECODER / SAT

Set "L-2 SELECT" to the appropriate mode depending on the type of appliance connected to the unit's L-2 IN/DECODER connector.

AN: To use this unit as the recording deck with the player connected to the L-2 IN/DECODER connector, or to use the satellite receiver connected to the L-2 IN/DECODER connector.

DECODER: To use a decoder connected to the L-2 IN/DECODER connector.

SAT: To view a satellite programme with the TV set while the unit is turned off. (F pg. 50)

NOTES:

- If you have a satellite receiver or a decoder connected to the L-2 IN/DECODER connector, be sure to set "L-2 SELECT" back to the appropriate mode after editing.
- If you are not connecting a satellite receiver or a decoder to the
- L-2 IN/DECODER connector, leave "L-2 SELECT" set to "A/V."

 When "L-2 SELECT" is set to "SAT," "SAT" appears on the TV screen or front display panel instead of "L-2.

■ COLOUR SYSTEM — PAL/NTSC / MESECAM

You can play back PAL, NTSC and MESECAM tapes, or record PAL and SECAM* signals on this unit. Select the appropriate colour system.

SECAM signals will be recorded as MESECAM on this unit; MESECAM is the designation for tapes with SECAM signals that have been recorded on a MESECAM-compatible PAL video cassette recorder.

PAL/NTSC: To record PAL signals, or play back a PAL or NTSC

MESECAM: To record SECAM signals, or play back a MESECAM tape.

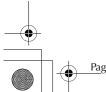
NOTES:

About NTSC Playback

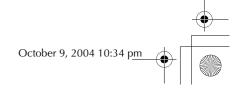
- Some TVs shrink the picture vertically and place black bars at the top and bottom of the TV screen. This is not a malfunction on the part of either the unit or the TV.
- The picture may roll up and down. This can be corrected using the V-HOLD control found on some TVs. (This cannot be corrected if the TV does not have a V-HOLD control.)
- The counter and tape remaining time readings will be incorrect.
- During search, still, or frame-by-frame playback, the picture will be distorted, and there may be a loss of colour.
- Depending on the type of TV, the top and bottom portions of superimposed displays may be cut off during NTSC playback.

■ AUTO POWER OFF — 3H / OFF

When this function is set to "3H," the unit is turned off automatically if no operation is done within 3 hours. "AUTO POWER OFF IN 3 MIN" appears on the screen 3 minutes before the unit is turned off.















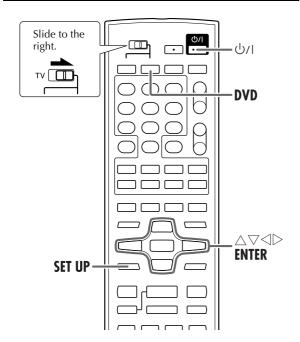
Mode Set (DVD deck)

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

• For each mode setting, see corresponding pages.

A LANGUAGE	MENU LANGUAGE (に pg. 16) AUDIO LANGUAGE (に pg. 16) SUBTITLE (に pg. 16) ON SCREEN LANGUAGE (に pg. 16)
PICTURE	MONITOR TYPE (pg. 14) PICTURE SOURCE (pg. 56) SCREEN SAVER (pg. 56) BACKGROUND (pg. 56)
AUDIO	DIGITAL AUDIO OUTPUT (pg. 56) ANALOG DOWN MIX (pg. 56) D. RANGE CONTROL (pg. 56) OUTPUT LEVEL (pg. 56)
∦ OTHERS	RESUME (\$\mathscr{G}\$ pg. 57) ON SCREEN GUIDE (\$\mathscr{G}\$ pg. 57) DIVX REGISTRATION (\$\mathscr{G}\$ pg. 57) PARENTAL LOCK (\$\mathscr{G}\$ pg. 57)

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



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

Turn on the unit.

Press 心/l.

Select the DVD deck.

On the unit

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

On the remote control

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

Access the DVD Set Up menu screen.

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



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

Select the mode.

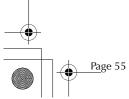
Press $\triangle \nabla$ to move \boxtimes to "RESUME," then press **ENTER**.

Select the mode setting.

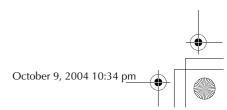
Press $\triangle \nabla$ to select "ON," then press **ENTER**.

Return to the normal screen.

Press **SET UP**.















SUBSIDIARY SETTINGS (cont.)

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

Picture Settings

■ MONITOR TYPE

16:9 / **4:3 LB** / 4:3 PS

You can select the monitor type depending on the TV used when you play back DVD VIDEO discs recorded for wide-screen TVs. For more details, refer to "Monitor Set (DVD deck)" (F pg. 14).

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 movements

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.

This function is not available for Audio files playback.

BACKGROUND

STANDARD / USER / SAVE AS BACKGROUND

You can use your favorite image as the opening display. **STANDARD**: Select this to display the JVC original image. USER: Select this to display your favorite image when a JPEG image is registered.

SAVE AS BACKGROUND: To register a new image, select this while a JPEG image is displayed on the TV screen.

Audio Settings

DIGITAL AUDIO OUTPUT -

PCM ONLY / DOLBY DIGITAL/PCM / STREAM/PCM

connected to DIGITAL AUDIO OUT connector on the rear of

to the DIGITAL AUDIO OUT connector.

AUDIO OUT connector to the linear PCM digital input

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

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

■ 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 OUT connectors when playing back a DVD VIDEO disc recorded with surround multichannel audio.

DOLBY SURROUND: Select this when you enjoy multichannel surround audio by connecting the unit's analogue AUDIO OUTPUT connectors (DVD) to a surround decoder.

STEREO: 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.

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 programme 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 programme.

NORMAL: Normally select this setting to activate this function. TV MODE: Select this when you hear the sound through the TV's speaker(s).

■ OUTPUT LEVEL — STANDARD / LOW

You can lower the output level of analog audio to accommodate the unit to the connected A/V equipment.

STANDARD: Normally select this.

LOW: Select this if the sound output from the speaker is distorted. The output level of analog audio is lowered.





Set to the appropriate mode according to the type of the device

It is not necessary to set this mode when you connect no device

PCM ONLY: Select this when you connect the unit's DIGITAL connector of another audio device.

built-in Dolby Digital decoder.

multichannel decoder.









EN 57

DI 1 1 P	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 48 kHz, 24 bit stereo linear PCM		
DVD VIDEO with Dolby Digital	Dolby Digital bitstream		48 kHz, 24 bit stereo linear PCM
Video CD/SVCD/Audio CD	44.1 kHz, 16 bit stereo linear PCM		
Audio CD with DTS	DTS bitstream	44.1 kHz, 24 bit stereo linear PCM	
CD-R/RW recorded MP3, CD-R/RW or DVD-R/RW recorded DivX	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

■ **RESUME** — **ON** / OFF / DISC RESUME

You can select the resume playback mode.

ON: The unit resumes playback from the position where playback has been stopped if the disc is still in the disc tray. OFF: This function is deactivated.

DISC RESUME: The unit resumes playback of the last 30 discs played. The unit retains a memory of the stopped position of each disc even if the disc is removed from the disc tray.

NOTE:

This function is not available for Audio CD discs and Audio/Video files playback.

■ ON SCREEN GUIDE — ON / OFF

When this function is set to "ON," the unit can display "onscreen guide" icons or characters which show the conditions of the unit or disc.

■ DivX REGISTRATION

The unit has its own Registration Code for DivX playback. You can confirm the code of your unit.

NOTE:

Once you played back a disc created by using the Registration Code, the unit's code is overwritten by a totally different new one for copyright protection purpose.

■ PARENTAL LOCK

Select this, then press **ENTER** to show the PARENTAL LOCK menu screen for limiting playback by children.

Parental Lock

This function restricts playback of DVD VIDEO discs which contains violent (and other) scenes according to the level set by the user. Scenes which are limited by this function are not played or replaced with other scenes.

■ COUNTRY CODE

Select the code of your country/area. (F pg. 58)

■ SET LEVEL

Select the level of restriction. ("1" is the strictest.)

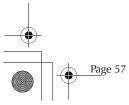
■ PASSWORD

Enter your password by pressing the **number keys**(0-9).

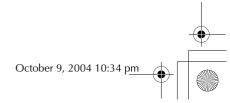
FYIT

Select this, then press **ENTER** to go back to the OTHERS menu screen.

- Some DVD VIDEO discs cannot be played by this function. If you try to play such a disc, the PARENTAL LOCK menu screen appears on the TV screen and asks whether you want to release the lock or not.
 - To release the lock and play, select "TEMPORARY RELEASE," press ENTER, then enter your password. Otherwise, eject the disc.
- To change the setting of the limitation, you need to enter your password.
- If you forget your pass word, enter "8888."













<u>58</u> en

SUBSIDIARY SETTINGS (cont.)

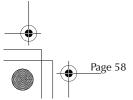
Country/Area Code List for Parental Lock

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

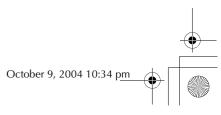
List	for Parental Lo
ES	Spain
ET	Ethiopia
FI	Finland
FJ	Fiji
FK	Falkland Islands (Malvinas)
FM	Micronesia (Federated States of)
FO	Faroe Islands
FR	France
FX	France, Metropolitan
GA	Gabon
GB	United Kingdom
GD	Grenada
GE	Georgia
GF	French Guiana
GH	Ghana
GI	Gibraltar
GL	Greenland Gambia
GM	Gambia
GN GP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

Saint Lucia
Liechtenstein
Sri Lanka
Liberia
Lesotho
Lithuania
Luxembourg
Latvia
Libyan Arab Jamahiriya
Morocco
Monaco
Moldova, Republic of
Madagascar
Marshall Islands
Mali
Myanmar
Mongolia
Macau
Northern Mariana Islands
Martinique
Mauritania
Montserrat
Malta
Mauritius
Maldives
Malawi
Mexico
Malaysia
Mozambique
Namibia
New Caledonia
Niger
Norfolk Island
Nigeria
Nicaragua
Netherlands
Norway
Nepal
Nauru
Niue
New Zealand
Oman
Panama
Peru
French Polynesia
Papua New Guinea
Philippines
Pakistan
Poland
Saint Pierre and Miquelon
Pitcairn
Puerto Rico
Portugal
Palau
Paraguay
Qatar
Réunion
Romania
Russian Federation
Rwanda

SA	Saudi Arabia
SB	Solomon Islands
SC	Seychelles
SD	Sudan
SE	Sweden
SG	Singapore
SH	Saint Helena
SI	Slovenia
SJ	Svalbard and Jan Mayen
SK	Slovakia
SL	Sierra Leone
SM	San Marino
SN	Senegal
SO	Somalia
SR	Suriname
ST	Sao Tome and Principe
SV	El Salvador
SY	Syrian Arab Republic
SZ	Swaziland
TC	Turks and Caicos Islands
TD	Chad
TF	French Southern Territories
TG TH	Togo Thailand
TJ	Tajikistan
TK	Tokelau
TM	Turkmenistan
TN	Tunisia
TO	Tonga
TP	East Timor
TR	Turkey
TT	Trinidad and Tobago
TV	Tuvalu
TW	Taiwan, Province of China
TZ	Tanzania, United Republic of
UA	Ukraine
UG	Uganda
UM	United States Minor Outlying
US	Islands United States
UY	Uruguay
UZ	Uzbekistan
VA	Vatican City State (Holy See)
VC	Saint Vincent and the Grenadines
VE	Venezuela
VG	Virgin Islands (British)
VI	Virgin Islands (U.S.)
VN	Viet Nam
VU	Vanuatu
WF	Wallis and Futuna Islands
WS	Samoa
YE	Yemen
YT	Mayotte
71	Yugoslavia
ZM 7M	South Africa Zambia
ZIVI ZR	Zaire
7\\\	Zimbabwe
/_VV	











IMPORTANT

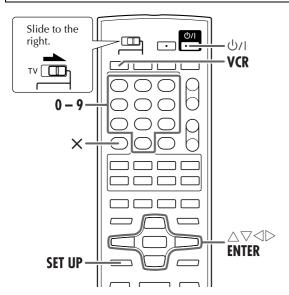
Perform the following steps only if —

— Auto Channel Set has not been set correctly by Auto Set Up or by Preset Download. (pp. 10, 12)

— you have moved to a different area or if a new station starts broadcasting in your area.

Your unit needs to memorize all necessary stations in channel positions in order to record TV programmes. Auto Channel Set automatically assigns all receivable stations in your area to call them up by using the **PR** buttons without going through any vacant channels.

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



Auto Channel Set

1

Turn on the unit.

Press ७/۱.

Select the VHS deck.

On the unit

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

On the remote control

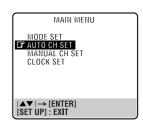
Press VCR so that the VCR indicator lights up.

Access the Main Menu screen.

Press **SET UP**.

Access the Auto Channel Set screen.

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



Select your country.

Press $\triangle \nabla$ to move the highlight bar (pointer) to your country's name, then press **ENTER** or \triangleright .

Select the language.

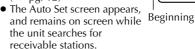
Press $\triangle \nabla$ to move the highlight bar (pointer) to the language of your choice.

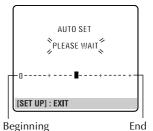
Perform Auto Channel Set.

Press ENTER twice.

step 8 appears.

• When you have connected the unit to a TV offering T-V Link via a fully-wired 21-pin SCART cable (Pp. 9), the unit automatically performs the Preset Download and the T-V LINK screen will appear. (Pp. 12)





receivable stations.
As Auto Channel Set progresses, the "■" mark on the TV screen moves from left to right. Wait until the TV screen as shown in

View the Confirmation screen.

After "SCAN COMPLETED" is displayed on the TV screen for about 5 seconds, the Confirmation screen looking like the one to the right appears. The stations your unit located appear on the Confirmation screen — channel positions (PR),

€PR	СН	ID 🥠	PR	СН	ID
01	25	ARD	08	C26	E-SP
∕ 02	C08	SKY1>	09	55	WEST
03	10	ZDF	10	C24	SAT1
04	C65	RAI1	11	C23	OSF
05	C31	BBC1	12		
06	C32	BBC2	13		
07	C33	3SAT	14		
	74				
\rightarrow	[ENTE	R]: EDIT			
\rightarrow	[X]:	DELETE			
[SE	T UP] :	EXIT			

channels (CH) and station names (ID $- \square$ pg. 63). The blueback screen and the programme currently being broadcast by the blinking station appear alternately for 8 seconds each. To view the next page, use the $\triangle \nabla \triangleleft \triangleright$ button on the remote control.

- The stations located in the selected country appear at the top of the list.
- The Guide Program numbers will also be set automatically during Auto Channel Set.

Return to the normal screen.











SUBSIDIARY SETTINGS (cont.)

- Using the Confirmation screen, you can skip or add channel positions, enter station names and perform other operations.
 Refer to pages 60 – 62 for the procedures.
- Depending on reception conditions, the stations may not be stored in order, and the station names may not be stored correctly.
- For information on scrambled broadcasts, refer to page 61.

IMPORTANT

- In certain reception conditions, station names may not be stored correctly, and Auto Guide Program Number Set may not work properly. If the Guide Program numbers are not set properly when you timer-record a TV programme using the SHOWVIEW system, the unit will record a TV programme of a different station. When programming the timer using the SHOWVIEW system, be sure to check the desired channel is selected correctly. (I=F pg. 24, "SHOWVIEW" Timer Programming")
- Your unit memorizes all detected stations even if reception of some of them is poor. You can delete those stations with an unacceptable picture. (pg. 61, "Deleting a Channel")

NOTES:

- Fine tuning is performed automatically during Auto Channel Set. If you want to perform tuning manually, refer to page 62.
- If you perform Auto Channel Set when the aerial cable is not connected properly, "SCAN COMPLETED –NO SIGNAL—" appears on the TV screen in step **3**. When this happens, make sure of the aerial connection and press **ENTER**; Auto Channel Set will take place again.
- If no sound accompanies the picture or the audio sounds unnatural on some channels that have been stored by Auto Set Up, the TV system setting for those channels may be incorrect. Select the appropriate TV system for those channels.
 (IP) pg. 61, "INFORMATION")

Manual Channel Set

Store channels that were not stored during Auto Set Up (pg. 10), Preset Download (pg. 12) or Auto Channel Set (pg. 59).

1

Access the Main Menu screen.

Press SET UP.

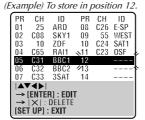
Access the Confirmation screen.

Press $\triangle \nabla$ to move the highlight bar (pointer) to "MANUAL CH SET", then press **ENTER** or \triangleright . The Confirmation screen appears.

Select the channel position.

Press $\triangle \nabla \triangleleft \triangleright$ until an open position in which you want to store a channel begins blinking, then press **ENTER**. The Manual Channel Set screen appears.

The blueback screen and the programme currently being broadcast by the selected channel appear alternately for 8 seconds each.



4. Select the band.

Press $\triangle \nabla$ to change the band between CH (regular) and CC (cable), then press \triangleright .



Input the channel.

Press the **number keys** to input the channel number you want to store.

- Input "0" before any single number entries.
- To input the registered station name (ID □ pg. 63), press buntil "- - -" (ID setting) begins blinking, then press △∇.
- For fine tuning adjustment, press
 □ until "+/-" begins blinking, then press
 △
 □. While tuning, "+" or "-" appears.
- When storing a channel that sends scrambled broadcasts, press ▷ until "OFF" (Decoder setting) blinks, then press △∇ to set "DECODER" to "ON" ("OFF" is the default setting).
- When "L-2 SELECT" is set to "A/V" or "SAT", the "DECODER" setting cannot be changed. (F) pg. 54)

Enter new channel information.

Press **ENTER** and the Confirmation screen appears.

• Repeat steps **3** – **6** as necessary.

Close the Confirmation screen.

Press **SET UP**.

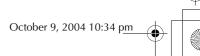
- To change positions, see "Changing Station Channel Position" (pg. 61).
- If you wish to set station names other than the ones registered in your unit, see "Setting Station Names Manually" (☐ pg. 62).

ATTENTION

Guide Program numbers are not set when channels are stored manually. (☐ pg. 24, "SHOWVIEW™ Timer Programming")











Deleting a Channel

Perform steps **1** and **2** of "Manual Channel Set" on page 60 to access the Confirmation screen before continuing.

Select the item.

Press $\triangle \nabla \triangleleft \triangleright$ until the item you want to delete begins blinking.

Delete a channel.

Press X.

- The item directly beneath the cancelled one moves up one
- Repeat steps 11 and 22 if necessary.

Close the Confirmation screen.

Press SET UP.

Changing Station Channel Position

Perform steps 1 and 2 of "Manual Channel Set" on page 60 to access the Confirmation screen before continuing

Select the item.

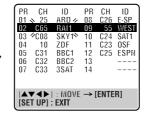
Press $\triangle \nabla \triangleleft \triangleright$ until the item you want to move begins blinking. Then press **ENTER** and the station name (ID) and its channel (CH) number begin blinking.

Select the new position.

Press $\triangle \nabla \triangleleft \triangleright$ to move the station to the new channel position, then press ENTER.

Example: If you moved the station in position 4 to position 2, the stations originally in positions 2 and 3 each move down one space.

PR	СН	ID	PR	СН	ID
01	25	ARD	08	C26	E-SP
02	C08	SKY1	09	55	WEST
03	10	ZDF //	10	C24	SAT1
04	C65	RAI1	11	C23	0SF
	∕C31	BBC1∾	12	C25	ESPN
06	C32	BBC2	13		
07	C33	3SAT	14		
[EN		: MOVE MANUAL EXIT	_ CH	SET	



• Repeat steps 11 and 22 if necessary.

Close the Confirmation screen.

Press SET UP.

When Receiving a Scrambled **Broadcast**

Select the decoder mode.

Set "L-2 SELECT" to "DECODER". (Fig. 54)

Access the Confirmation screen.

Perform steps 11 and 22 of "Manual Channel Set" on page 60.

Select the position.

Press $\triangle \nabla \triangleleft \triangleright$ to select the channel position broadcasting scrambled programmes, then press ENTER

Change the decoder setting.

Press ▷ until "OFF" (decoder setting) begins blinking, and set it to "ON" by pressing $\triangle \nabla$.

Return to the Confirmation screen.

• Repeat steps **3** – **5** if necessary.

Close the Confirmation screen.

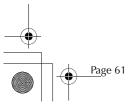
Press SET UP.

INFORMATION

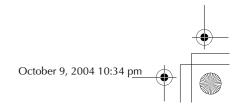
If you live in Eastern Europe, "TV SYSTEM" setting appears instead of "DECODER" setting on the Manual Channel Set screen. When you can see the picture but can hear no audio, select appropriate TV system (D/K or B/G). Normally, TV programmes are broadcasted as follows.

For Eastern Europe : D/K For Western Europe : B/G

- Select a country in Eastern Europe in step 5 on page 59.
- Press ▷ until the TV system (D/K or B/G) starts blinking on the Manual Channel Set screen in step 4 on page 60.













62 EN

SUBSIDIARY SETTINGS (cont.)

Setting Station Names by ID Code

Set station names by ID codes ("ID") that are registered in your unit.

Perform steps **1** and **2** of "Manual Channel Set" on page 60 to access the Confirmation screen before continuing.

Select the item.

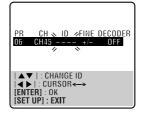
Press $\triangle \nabla \triangleleft \triangleright$ until the item you want begins blinking.

Access the Manual Channel Set screen.

Press ENTER twice.

Select the new station.

Press \triangleright until the station name (ID) begins blinking, then press $\triangle \nabla$ until the new station's name (ID) you want to store begins blinking. Registered station names (\square pg. 63) appear as you press $\triangle \nabla$.



Switch the stations.

Press **ENTER**.

- The Confirmation screen appears.
- Repeat steps – 4 if necessary.

5 Close the Confirmation screen.

Press **SET UP**.

Setting Station Names Manually

You can set station names manually.

Perform steps **1** and **2** of "Manual Channel Set" on page 60 to access the Confirmation screen and then perform steps **1** and **2** of "Setting Station Names by ID Code" above before continuing.

Select the character for station name.

Press ▷ until the first letter of the station name begins blinking.



2 Enter the new character.

Press $\triangle \nabla$ to cycle through the characters (A–Z, 0–9, –, \divideontimes , +, $_$ (space)) and stop when the desired character is indicated, then press \trianglerighteq to enter. Enter the remaining characters the same way (maximum of 4). After entering all characters, press **ENTER**.

- The Confirmation screen appears.

Close the Confirmation screen.

Press SET UP.

NOTE:

The characters available for the station name (ID) are A–Z, 0–9, –, \bigstar , +, \longrightarrow (space) (maximum of 4).

Fine-Tuning a Stored Channel

Perform steps **11** and **12** of "Manual Channel Set" on page 60 to access the Confirmation screen before continuing.

Select the channel to fine-tune.

Press $\triangle \nabla \triangleleft \triangleright$ until the channel you want to tune begins blinking.

Access the Manual Channel Set screen.

Press **ENTER** twice. The Manual Channel Set screen appears.

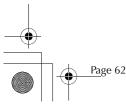
Perform tuning.

Press \triangleright until "+/-" begins blinking, then press $\triangle \nabla$ to obtain the best picture quality. After finishing adjustment, press **ENTER**.

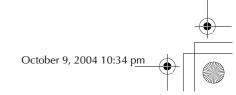
- The Confirmation screen appears.
- Repeat steps – if necessary.

Close the Confirmation screen.

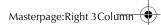
Press **SET UP**.















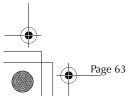
TV Station and ID List

* The "ID" abbreviation is what is shown on-screen in lieu of the station name. The "ID" abbreviation is listed in the Confirmation screen and is displayed on the TV screen when the unit is tuned to a different station.

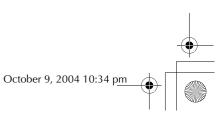
on the TV scree.	n when the unit is tuned to a
ID*	STATION NAME
1000	TV1000
3SAT	3SAT
9LIV	9LIVE
AB3	AB3
ADLT	ADULT
ANIM	Animal Planet
ANT3	ANTENA3
ARD	ARD
ARTE	ARTE
ATV	ATV
B1	BERLIN 1
BBC	BBC GROUP
BBC1	BBC1
BBC2	BBC2
BBCW	BBC WORLD
BIO+	TV BIO+
BLOO	BLOOMBERG
BR3	BAYERN3
C+	CANAL PLUS
C1	PORTUGUSES
C9	C9
CAN5	CANALE5
CANV	KETNET CANVAS
CANZ	KANAAL Z
CH4	CHANNEL4
CH5	CHANNEL5
CHLD	CHILD CINEMA
CINE CLUB	TELECLUB
CMT	CMT
CNN	CNN
CSUR	ANDALUCIA
CT1	CT 1
CT2	CT 2
DISC	DISCOVERY
DK1	TV Denmark 1
DK2	TV Denmark 2
DK4	Denmark 4
DR1	DR TV
DR2	DR2
DSF	DSF
DUNA	DUNA TV
ETB1	ETB1
ETB2	ETB2
ETV	Game/Shop/Music
EUNW	EURO NEWS
EURO	EURONEWS
EUSP	EUROSPORTS
FEMM	FEMMAN
FILM	FILM
FNET	FILMNET
FR2	France2
FR3	France3
FR5	France5
GALA	GALAVISION
HBO	HBO
HR3	HESSEN3
HSEU	HSEU
INFO	INFO-KANAL
ITA1	ITALIA7
ITA7	ITALIA7
ITV1	ITV

ID*	STATION NAME
IIM	JIM TV
JSTV	JSTV
KA2	KA2
KAB1	KABEL1
KAN2	KANAL2
KAN5	KANAL5
KBH	Kbh. Kanal
KIKA	Kinder kanal
LA7	LA7
_IB	Liberty TV
LOCA	LOCAL
M6	M6
MBC	MBR
MCM	MCM
MDR	MDR
MOVE	MOVIE
MTV	MTV
MTV1	MTV1
MTV2	MTV2
MTV3	MTV3
ngeo	NGEO
N24	News 24
N3	NORD3
N-TV	N-TV
NBC	NBC SUPER
NDR	NDR
NED1	
	NED1
NED2	NED2
NED3	NED3
NET5	Net 5
NEWS	
NICK	NICKELODEON
NOVA	NOVA TV
NRK1	NRK
NRK2	NRK2
ODE	ODEON
ORF1	ORF1
ORF2	ORF2
PHOE	PHOENIX
POLS	POLST
PREM	PREMIERE
PRIM	PRIMA TV
PRO7	PRO7
RAI1	RAI1
RAI2	RAI2
RAI3	RAI3
RET4	RETE4
RTB1	TELE21
RTB2	RTBF 2
RTL	RTL
RTL2	RTL2
RTI 4	RTL4
RTL5	RTL5
RTL7	RTL7
RTLK	RTL KLUB
RTP	RTP
RTV4	RTV4
SAT1	SAT1
SBS6	SBS
SERV	Service
SF1	SF1
1.1	1.301

	mon sercemana is displayed
ID*	STATION NAME
SHOW	SHOW
SIC	SOCIEDADE
SKY	SKY CHANNEL
SKYN	SKY NEWS
SPEK	SPEKTRUM
SPRT	SPORT
SRTL	SUPER RTL
STAR	STAR-TV
SVT1	SVT1
SVT2	SVT2
SV24	News
SWR	SUEDWEST3
TCC	TCC
TCM	TCM
TELE	TELE
TELE5	TELE5
TF1	TF1
TM	TM
TMC	TELEMONTECARLO
TMF	TMF
TNT	TNT INT
TRT	TRT INT
TSI1	TSI
TSI2	TSI2
TSR1	TSR
TSR2	TSR2
TV1	BRTN TV1
TV2	TV2
TV2Z	TV2 Z
TV3	TV3
TV3+	TV3 plus
TV4	TV4
TV5	TV5
TV6	TV6
TV8	TV8
TVE1	TVE1
TVE2	TVE2
TVG	TV GALICIA
TVI	TV INDEPENDENT
TVN	TV NORGE
TV24	TVN24
TVP1	TVP1
TVP2	TVP2
TV P	TV Polonia
V8	V8
VCR	VIDEO
VH-1	VH-1
VIT	VIT
VIVA	VIVA
VIV2	VIVA2
VMTV	VIDEO MUSIC
VOX	VOX
VSAT	VIASAT3
VT4	VT4
VTM	VTM
WDR3	West3
WRLD	WRLD
YLE1	YLE1
YLE2	YLE2
YORN	YORIN
ZDF	ZDF
ZTV	ZTV
∠ I V	∠ I V















SUBSIDIARY SETTINGS (cont.)

deo Channel Set

Video channel (RF output channel) is the channel on which your TV receives picture and sound signals from the unit through the RF cable.

IMPORTANT

Perform the following steps only if —

Video Channel Set has not been done correctly by the Auto Set Up function (F pg. 10),

 interference appears in the TV picture after you have moved to a different area or a new station has started broadcasting in your area.

you change the connection between your unit and TV from RF connection to AV connection, or vice versa.

If you have connected the unit to your TV via the AV connection (F pg. 9), you have to set the video channel

If you have connected the unit to your TV via the RF connection (pg. 9), you have to set the correct video channel.

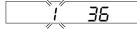
Before performing the following steps:

- Make sure there is no cassette inserted in the unit.
- Press VCR/DVD on the unit or VCR on the remote control so that the VCR indicator lights up, then press 0/1 to turn off the unit.



Access the Video Channel Set mode.

Hold down ■ on the unit until the front display panel shows the following.



Set the RF output system.

The blinking number on the display indicates the RF output system of your country.

- If you have selected MAGYARORSZÁG, ČESKÁ REPUBLIKA, POLSKA or OTHER EASTERN EUROPE for the country setting (\square pg. 10, 15), press $\triangle \nabla$ to set to "2."
- For other countries, set to "1". Then press **ENTER**. (1: B/G 2: D/K)



Set the video channel.

With AV Connection

Press **PR** – until the front display panel shows "1 - -" (or

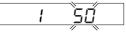


Now the video channel is set to off.

With RF Connection

Press **PR** + or – to set the unit to a vacant channel between 22 and 69 which is not occupied by any local station in your area.

(Example) If channel 50 is available in your area



Then set your TV to UHF channel 50.

- If the two vertical white bars appear clearly on the TV screen as shown to the right, go to step 4.
- If the two vertical white bars do not appear clearly, re-set the unit to another vacant channel and try again.



NOTES:

- If you set the unit to a channel which is occupied by a local station or has neighbouring channels that are occupied by local stations, the picture reception quality will be affected and some interference noise will appear on the TV screen. Be sure to select a vacant channel which has no broadcast on neighbouring channels.
- If you cannot obtain the two vertical white bars clearly with any channel between 22 and 69, consult your JVC dealer.

Exit the Video Channel Set mode.

Press **ENTER**.

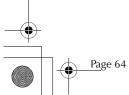
With AV Connection

To view picture signals from the unit, set your TV to its AV mode.

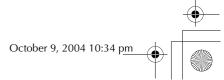
With RF Connection

The channel you have set in step 3 above is your video channel.

To view picture signals from the unit, set your TV to this video channel.



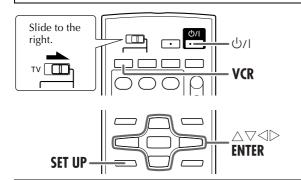








- Turn on the TV and select the video channel (or AV mode).
- Slide the TV/VCR/DVD switch on the remote control to the right.



IMPORTANT

If you performed Auto Set Up (\square pg. 10) or Preset Download (\square pg. 12), without ever having set the clock previously, the unit's built-in clock is also set automatically. Perform the following steps only if —

—Auto Clock Set has not been performed correctly by Auto Set Up or Preset Download.

OR

—you want to change the Just Clock setting. (\square pg. 65, "Just Clock")

Turn or

Turn on the unit.

Press め/1.

Select the VHS deck.

On the unit

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

On the remote control

Press VCR so that the VCR indicator lights up.

Access the Main Menu screen.

Press **SET UP**.

4. Access the Clock Set screen.

Press $\triangle \nabla$ to move the highlight bar (pointer) to "CLOCK SET," then press **ENTER** or \triangleright . The Clock Set screen appears.





NOTE:

When you have selected MAGYARORSZÁG, ČESKÁ REPUBLIKA, POLSKA or OTHER EASTERN EUROPE for the country setting (pg. 10, 15), you cannot use the Just Clock function. Skip steps and .

Set the date and time.

Press $\triangle \nabla$ to set the time, then press **ENTER** or \triangleright . The "DATE" display begins blinking. Repeat the same procedure to set the date and year.

• When you set the time/date, press and hold $\triangle \nabla$ to change the time by 30 minutes/15 days.

6 Set Just Clock.

The default setting is "OFF". Set as desired by pressing $\triangle \nabla$, then press **ENTER** or \triangleright .

- For the Just Clock function, refer to "Just Clock" on page 65.
- If you set it "OFF," press **SET UP** to finish the clock setting.

Just Clock

The Just Clock function provides accurate time keeping through automatic adjustments at regular intervals, by reading data from a PDC signal.

The Just Clock option can be set "ON" or "OFF" at the Clock Set screen (the default setting is "OFF"). Press **ENTER** until the Just Clock setting begins blinking, then press $\Delta \nabla$ to change the setting.

IMPORTANT: If you turn off Just Clock, the accuracy of the built-in clock may be reduced, which could adversely effect timer recording. We recommend you to set Just Clock on. In cases where the clock setting data from a PDC signal is incorrect, however, you are advised to set it "OFF."

Set the source channel position for clock data.

The unit is preset to receive clock setting and adjustment data from channel position 1.

Press $\triangle \nabla$ to set the channel position to the number representing the station transmitting clock setting data, then press **ENTER** or \triangleright .

8 Start the clock operation.

Press SET UP.

NOTES:

- Just Clock (when set to "ON") adjusts the unit's built-in clock every hour, except for 23:00, 0:00, 1:00 and 2:00.
- Just Clock is not effective when:
- the unit's power is on.
- the unit is in the timer mode. (VHS deck only)
- a difference of more than 3 minutes exists between the built-in clock's time and the actual time.
- the unit is in the Automatic Satellite Programme Recording mode. (IF pg. 28) (VHS deck only)
- the unit is in the Power Save mode. (F) pg. 54) (VHS deck only)
- "L-2 SELECT" is set to "SAT". (□ pg. 54) (VHS deck only)

 If Just Clock is set to "ON", the unit's clock is automatically
- adjusted at the start/end of Summer Time.
- Just Clock may not function properly depending on the reception condition.



October 9, 2004 10:34 pm









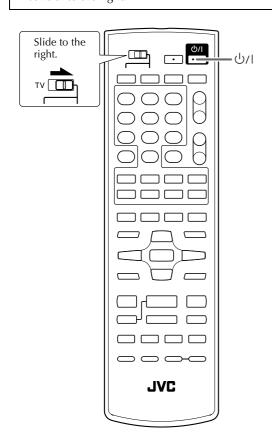


SUBSIDIARY SETTINGS (cont.)

Child Lock

You can disable the unit's operation.

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



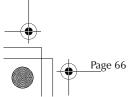
Set the Child Lock.

Press and hold 0/1 on the remote control for more than 10 seconds while the unit is turned on. The unit turns off, and "CL" appears on the front display panel.

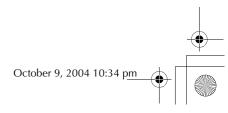


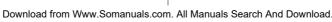
• To release the child lock, press and hold ७/। on the remote control until the unit turns on.

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

















en *67*

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

No power is supplied to the unit.

- The mains power cord is disconnected.
- →Connect the mains power cord.

The remote control won't function.

- The batteries are discharged.
- → Replace the dead batteries with new ones.

Tape Transport (VHS deck)

During recording, the tape does not run. " lacktriangle " lights up on the front display panel.

- The unit is in the Record Pause mode.
- →Press ➤ to resume recording.

The tape will not rewind or fast-forward.

- The tape is already fully rewound or fast-forwarded.
- →Check the cassette.

Playback (VHS deck)

The VHS deck can not be operated.

• The VHS deck is not selected.

On the unit

→ Press VCR/DVD repeatedly so that the VCR indicator lights

On the remote control

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

The playback picture does not appear while the tape is running.

- If you are using the RF connection,
 - the TV receiver's channel selector is not set to the video channel.
 - the unit's video channel has not been correctly set.
- →If you are using the RF connection,
 - set the TV receiver to the video channel.
 - perform "Video Channel Set" (🖙 pg. 64).
- If you are using the AV connection, the TV receiver is not set to the AV mode.
- →If you are using the AV connection, set the TV to its AV mode.

Noise appears during visual search.

• This is normal.

Noise appears during normal playback.

- The automatic tracking mode is engaged.
- →Try manual tracking. (© pg. 20)

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.

Breaks are noticeable in Hi-Fi soundtrack.

- The automatic tracking mode is engaged.
- →Try manual tracking. (© pg. 20)

Playback (DVD deck)

The button does not work.

• The operation is prohibited on the placed disc.

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 control

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

"○" appears on the TV screen.

• The operation is prohibited on the placed disc.

"REGION CODE ERROR!" appears on the TV screen.

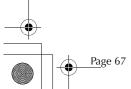
- The disc's region number does not match that of the unit.
- →Use the discs whose region number includes "ALL" or "2". (\square pg. 4)

The disc cannot be played back.

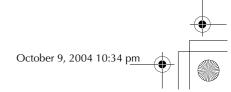
- The disc's region number does not match that of the unit.
- →Use the discs whose region number includes "ALL" or "2". (□ pg. 4)
- This type of disc cannot be played back.
- →See "Unplayable Discs" (🖙 pg. 4).
- The disc is not placed properly.
- → Remove the disc, then place the disc properly in the disc tray. (LFF pg. 5, "Placing a Disc")
- The Parental Lock is engaged, and the placed disc is rated higher than the set level.
- → Release the Parental Lock temporarily (□ pg. 57), or change the set level (□ pg. 57).

The language is not played back as you set.

• The disc does not contain the language you set.

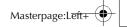
















TROUBLESHOOTING (cont.)

Changing audio/subtitle language is not possible.

- The disc does not contain audio/subtitles in multiple languages.
- →With some discs, the language should be set on the disc menu. (F pg. 31)

The subtitles do not appear on the TV screen.

- The disc does not contain subtitles.
- The subtitle display is set to off.
- → Set the subtitles display to on. (pg. 34)
- A-B Repeat Playback is in progress. (F pg. 33)
- →The subtitles recorded around point A-B may not appear.

Angle cannot be changed.

• The scene is not recorded from multiple angles.

Audio/Video Files Playback (DVD deck)

No sound and/or no picture comes out.

- MP3 disc is recorded with the "packet writing (UDF format)." It cannot be played back.
- Check the files if they are playable or unplayable.

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

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

DivX files are played back without sound.

• The unit can play back the MP3 sound for the audio part of the DivX files. Select the proper audio CODEC when making DivX files.

Recording (VHS deck)

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.

TV broadcasts cannot be recorded.

- "L-1," "L-2" or "F-1" has been selected as the input mode.
- →Set to the desired channel.

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 "L-1," "L-2" or "F-1."

Camcorder recording is not possible.

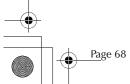
- The camcorder has not been properly connected.
- →Confirm that the camcorder is properly connected.
- The input mode is not correct.
- → Set the input mode to "L-1," "L-2" or "F-1."

" ● " and " ▶" on the front display panel won't stop blinking.

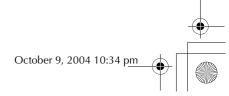
- The end of the tape was reached during recording.
- → The programme may not have been recorded in its entirety. Next time make sure you have enough time on the tape to record the entire programme.

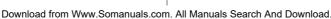


















Timer Recording (VHS deck)

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 ② and confirm that "②" is displayed on the front display panel.

Timer programming is not possible.

- Timer recording is in progress.
- →Timer programming can't be performed while a timer recording is in progress. Wait until it finishes.

" $extcolor{black}{ heta}$ " 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.

"②", " ○" 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 programme may not have been recorded in its entirety. Next time make sure you have enough time on the tape to record the entire programme.

"②" blinks for 10 seconds and the timer mode is disengaged.

- ② has been pressed when there are no programs in memory, or the timer record information has been programmed incorrectly.
- →Check the programmed data and re-program as necessary, then press ② again.

The ShowView system does not timer-record properly.

- The unit's channel positions have been set incorrectly.
- → Refer to "SHOWVIEW[™] Timer Programming" (□ pg. 24) and re-perform the procedure.

" ● " and " ▶" on the front display panel won't stop blinking.

- The end of the tape was reached during Instant Timer Recording.
- →The programme may not have been recorded in its entirety. Next time make sure you have enough time on the tape to record the entire programme.

" & ", " ● " 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 Automatic Satellite Programme Recording.
- →The programme may not have been recorded in its entirety. Next time make sure you have enough time on the tape to record the entire programme.

Other Problems

The image of the TV broadcast appears distorted on the TV screen.

- The unit is left turned on and the DVD deck is selected.
- → Turn off the unit, or press **VCR** to select the VHS deck, then press **TV/VCR** so that the VCR indicator disappears from the front display panel.

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.

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. (© pg. 60)

The channel cannot be changed.

- · Recording is in progress.
- → Press II to pause the recording, change channels, then press
- to resume recording

Channel settings that were made manually seem to have changed or disappeared.

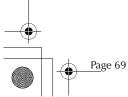
- After the manual settings were made, Auto Channel Set was performed.
- → Perform the manual settings again.

No channels are stored in the unit's memory.

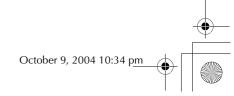
- The TV aerial cable was not connected to the unit when Auto Set Up was performed.
- → Turn off the unit once and connect the TV aerial cable to the unit properly, then turn on the unit again. Then perform Auto Set Up again. (ﷺ pg. 10)
- The fully-wired 21-pin SCART cable was not connected between the TV and the unit when Preset Download was performed.
- →Turn off the unit once and connect the fully-wired 21-pin SCART cable to the unit properly, then turn on the unit again. Then perform Preset Download again. (□ pg. 12)

ATTENTION

This unit contains microcomputers. External electronic noise or interference could cause malfunctioning. In such cases, switch the unit off and unplug the mains 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.

















SPECIFICATIONS

GENERAL

Power requirement : AC 220 V - 240 V \sim , 50 Hz/60 Hz

Power consumption

Power on Power off : 4.0 W

Temperature

: 5°C to 40°C Operating Storage : -20°C to 60°C Operating position: Horizontal only

Dimensions (WxHxD)

: 435 mm x 93 mm x 272 mm

: 4.2 kg Weight

: VHS PAL standard **Format**

Maximum recording time

240 min. with E-240 video cassette (SP) (LP) : 480 min. with E-240 video cassette

VIDEO/AUDIO (VHS deck)

Signal system : PAL-type colour signal and CCIR

monochrome signal, 625 lines

50 fields

Recording system : DA4 (Double Azimuth) head helical

scan system

Signal-to-noise ratio: 45 dB Horizontal resolution

: 250 lines

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

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

Input/Output : 21-pin SCART connectors: IN/OUT x 1, IN/DECODER x 1

RCA connectors: VIDEO IN x 1, AUDIO IN x 1,

AUDIO OUT x 1

VIDEO/AUDIO (DVD deck)

Signal system : PAL

: DVD VIDEO, DVD-R (Video Applicable disc

format), DVD-RW (Video format), Video CD, SVCD, Audio CD (CD-DA), CD-R/RW (CD-DA, Video CD, SVCD, MP3 format, JPEG, DivX)

Frequency responce

DVD : 4 Hz - 22 KHz CD : 4 Hz - 20 KHz

S/N Ratio : 90 dB

Wow and flutter : Below Measurable Level

: 90 dB Dynamic range

Output

Audio : (RCA) 2 Vrms, 1 Kohm Digital Audio : -21 dBm to -15 dBm (peak)

TUNER/TIMER (VHS deck)

TV channel storage capacity

: 99 positions (+AUX position) : Frequency synthesized tuner

Tuning system Channel coverage: VHF 47 MHz - 89 MHz/

104 MHz - 300 MHz/ 302 MHz - 470 MHz UHF 470 MHz - 862 MHz

: UHF channels 22 – 69 (Adjustable) Aerial output

Memory backup time

: Approx. 10 min.

ACCESSORIES

Provided accessories

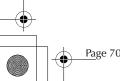
RF cable,

Infrared remote control unit,

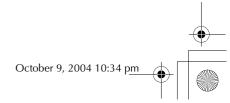
"R6" battery x 2

Specifications shown are for SP mode unless otherwise

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















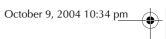
LIST OF TERMS

A-B Repeat Playback
About Discs
Placing a Disc
Playable Discs
Region Number
Unplayable Discs
Angle Selection
Auto Channel Set
Auto Set Up
Automatic Satellite Programme Recording
C
Changing Station Channel Position
Changing the Picture of the Opening Display
Check, Cancel and Change Programmes
Child Lock
Clock Set
Connecting to a Dolby Digital Decoder or an Amplifier with a
Built-In DTS
Connecting to a Satellite Receiver
Country/Area Code List for Parental Lock
D
Deleting a Channel
Digital Audio Dubbing
Dubbing (from DVD to VHS)
DVD Menu
F
Editing from a Camcorder
Editing to or from Another Video Recorder
Elapsed Recording Time Indication
Express Timer Programming
F
Fine-Tuning a Stored Channel
1
INDEX
Index Search
Instant ReView
Instant ReView 20 Instant Timer Recording (ITR) 22
Instant Timer Recording (ITR)
Instant Timer Recording (ITR)
Instant Timer Recording (ITR) 22 J Just Clock 13, 65 L Language Code List 17 Letter Box 14 Locating the Start Point of the Item or Skip the Item 31 M Manual Channel Set 60 Manual Tracking 20 Menu/Audio/Subtitle Language Set (DVD deck only) 16 Mode Set (DVD deck) ANALOG DOWN MIX 56 AUDIO LANGUAGE 16 16 13, 65 16 16 16 16 16 16 16
Instant Timer Recording (ITR) 22 J Just Clock 13, 65 L Language Code List 17 Letter Box 14 Locating the Start Point of the Item or Skip the Item 31 M Manual Channel Set 60 Manual Tracking 20 Menu/Audio/Subtitle Language Set (DVD deck only) 16 Mode Set (DVD deck) ANALOG DOWN MIX 56 AUDIO LANGUAGE 16 BACKGROUND 56
Instant Timer Recording (ITR) 22 J Just Clock 13, 65 L Language Code List 17 Letter Box 14 Locating the Start Point of the Item or Skip the Item 31 M Manual Channel Set 60 Manual Tracking 20 Menu/Audio/Subtitle Language Set (DVD deck only) 16 Mode Set (DVD deck) ANALOG DOWN MIX 56 AUDIO LANGUAGE 16 16 13, 65 16 16 16 16 16 16 16
Instant Timer Recording (ITR) 22 J Just Clock 13, 65 L Language Code List 17 Letter Box 14 Locating the Start Point of the Item or Skip the Item 31 M Manual Channel Set 60 Manual Tracking 20 Menu/Audio/Subtitle Language Set (DVD deck only) 16 Mode Set (DVD deck) ANALOG DOWN MIX 56 AUDIO LANGUAGE 16 BACKGROUND 56 D. RANGE CONTROL 56 DIGITAL AUDIO OUTPUT 56
Instant Timer Recording (ITR) 22 J Just Clock 13, 65 L Language Code List 17 Letter Box 14 Locating the Start Point of the Item or Skip the Item 31 M Manual Channel Set 60 Manual Tracking 20 Menu/Audio/Subtitle Language Set (DVD deck only) 16 Mode Set (DVD deck) ANALOG DOWN MIX 56 AUDIO LANGUAGE 16 BACKGROUND 56 D. RANGE CONTROL 56 DIGITAL AUDIO OUTPUT 56 DivX REGISTRATION 57
Instant Timer Recording (ITR) 22 J Just Clock 13, 65 L Language Code List 17 Letter Box 14 Locating the Start Point of the Item or Skip the Item 31 M Manual Channel Set 60 Manual Tracking 20 Menu/Audio/Subtitle Language Set (DVD deck only) 16 Mode Set (DVD deck) ANALOG DOWN MIX 56 AUDIO LANGUAGE 16 BACKGROUND 56 D. RANGE CONTROL 56 DIGITAL AUDIO OUTPUT 56 DivX REGISTRATION 57 MENU LANGUAGE 16
Instant Timer Recording (ITR) 22 J Just Clock 13, 65 L Language Code List 17 Letter Box 14 Locating the Start Point of the Item or Skip the Item 31 M Manual Channel Set 60 Manual Tracking 20 Menu/Audio/Subtitle Language Set (DVD deck only) 16 Mode Set (DVD deck) ANALOG DOWN MIX 56 AUDIO LANGUAGE 16 BACKGROUND 56 D. RANGE CONTROL 56 DIGITAL AUDIO OUTPUT 56 DivX REGISTRATION 57 MENU LANGUAGE 16 MONITOR TYPE 14, 56 56 MONITOR TYPE 14, 56 MISSING START
Instant Timer Recording (ITR) 22 J Just Clock 13, 65 L Language Code List 17 Letter Box 14 Locating the Start Point of the Item or Skip the Item 31 M Manual Channel Set 60 Manual Tracking 20 Menu/Audio/Subtitle Language Set (DVD deck only) 16 Mode Set (DVD deck) ANALOG DOWN MIX 56 AUDIO LANGUAGE 16 BACKGROUND 56 D. RANGE CONTROL 56 DIGITAL AUDIO OUTPUT 56 DIVX REGISTRATION 57 MENU LANGUAGE 16 MONITOR TYPE 14, 56 ON SCREEN GUIDE 57
Instant Timer Recording (ITR) 22 J Just Clock 13, 65 L Language Code List 17 Letter Box 14 Locating the Start Point of the Item or Skip the Item 31 M Manual Channel Set 60 Manual Tracking 20 Menu/Audio/Subtitle Language Set (DVD deck only) 16 Mode Set (DVD deck) ANALOG DOWN MIX 56 AUDIO LANGUAGE 16 BACKGROUND 56 D. RANGE CONTROL 56 DIGITAL AUDIO OUTPUT 56 DivX REGISTRATION 57 MENU LANGUAGE 16 MONITOR TYPE 14, 56 56 MONITOR TYPE 14, 56 MISSING START
Instant Timer Recording (ITR) 22 J Just Clock 13, 65 L Language Code List 17 Letter Box 14 Locating the Start Point of the Item or Skip the Item 31 M Manual Channel Set 60 Manual Tracking 20 Menu/Audio/Subtitle Language Set (DVD deck only) 16 Mode Set (DVD deck) ANALOG DOWN MIX 56 AUDIO LANGUAGE 16 BACKGROUND 56 D. RANGE CONTROL 56 DIGITAL AUDIO OUTPUT 56 DIGITAL AUDIO OUTPUT 56 DIVX REGISTRATION 57 MENU LANGUAGE 16 MONITOR TYPE 14, 56 ON SCREEN GUIDE 57 ON SCREEN GUIDE 57 ON SCREEN LANGUAGE 16 OUTPUT LEVEL 56
Instant Timer Recording (ITR) 22 J Just Clock 13, 65 L Language Code List 17 Letter Box 14 Locating the Start Point of the Item or Skip the Item 31 M Manual Channel Set 60 Manual Tracking 20 Menu/Audio/Subtitle Language Set (DVD deck only) 16 Mode Set (DVD deck) ANALOG DOWN MIX 56 AUDIO LANGUAGE 16 BACKGROUND 56 D. RANGE CONTROL 56 DIGITAL AUDIO OUTPUT 56 DIVX REGISTRATION 57 MENU LANGUAGE 16 MONITOR TYPE 14, 56 ON SCREEN GUIDE 57 ON SCREEN GUIDE 57 ON SCREEN LANGUAGE 16 OUTPUT LEVEL 56 PARENTAL LOCK 57
Instant Timer Recording (ITR) 22 J Just Clock 13, 65 L Language Code List 17 Letter Box 14 Locating the Start Point of the Item or Skip the Item 31 M Manual Channel Set 60 Manual Tracking 20 Menu/Audio/Subtitle Language Set (DVD deck only) 16 Mode Set (DVD deck) ANALOG DOWN MIX 56 AUDIO LANGUAGE 16 BACKGROUND 56 D. RANGE CONTROL 56 DIGITAL AUDIO OUTPUT 56 DIVX REGISTRATION 57 MENU LANGUAGE 16 MONITOR TYPE 14, 56 ON SCREEN GUIDE 57 ON SCREEN GUIDE 57 ON SCREEN LANGUAGE 16 OUTPUT LEVEL 56 PARENTAL LOCK 57 PICTURE SOURCE 56
Instant Timer Recording (ITR) 22 J Just Clock 13, 65 L Language Code List 17 Letter Box 14 Locating the Start Point of the Item or Skip the Item 31 M Manual Channel Set 60 Manual Tracking 20 Menu/Audio/Subtitle Language Set (DVD deck only) 16 Mode Set (DVD deck) ANALOG DOWN MIX 56 AUDIO LANGUAGE 16 BACKGROUND 56 D. RANGE CONTROL 56 DIGITAL AUDIO OUTPUT 56 DIVX REGISTRATION 57 MENU LANGUAGE 16 MONITOR TYPE 14, 56 ON SCREEN GUIDE 57 ON SCREEN GUIDE 57 ON SCREEN LANGUAGE 16 OUTPUT LEVEL 56 PARENTAL LOCK 57

SUBTITLE	10
Mode Set (VHS deck)	
AUTO POWER OFF	54
AUTO SP→LP TIMER	53
B.E.S.T	53
COLOUR SYSTEM	5 <i>3</i>
DIRECT REC	Ja
DIRECT REC	53
L-2 SELECT	54
O.S.D	53
PICTURE CONTROL	53
POWER SAVE	54
VIDEO STABILIZER	54
NI	
N	1.0
Next Function Memory	19
0	
One Touch Replay	9.32
On-Screen Language Set (DVD deck)	16
On-Screen Language Set (VHS deck)	15
OPERATIONS ON DVD DECK) – 43
OPERATIONS ON VHS DECK	3 - 29
P	
	1 1
Pan&Scan	14
Playback Control (PBC) Function	<u>3</u> 1
Playing Back DivX Files with Subtitle	43
Preset Download	12
Programme Playback 3	6, 42
R	
Random Playback	6.41
Recording21	-23
Recording One Programme While Watching Another	22
Recording Resume Function	21
Remote Control Functions	48
Repeat Playback20, 3	3.41
	,
S	
S Setting Station Names by ID Code	62
Setting Station Names by ID Code	62 62
S Setting Station Names by ID Code Setting Station Names Manually SHOWVIEW™ Timer Programming	62 62 24
S Setting Station Names by ID Code Setting Station Names Manually SHOWVIEW™ Timer Programming Skip Search	62 62 24
S Setting Station Names by ID Code Setting Station Names Manually SHOWVIEW™ Timer Programming Skip Search Slide Show Playback (IPEG Files)	62 62 24 19
S Setting Station Names by ID Code Setting Station Names Manually SHOWVIEW™ Timer Programming Skip Search Slide Show Playback (JPEG Files) Slow Motion 1	62 62 24 19 42 9, 32
S Setting Station Names by ID Code Setting Station Names Manually SHOWVIEW™ Timer Programming Skip Search Slide Show Playback (JPEG Files) Slow Motion Sound Effect 1	62 62 24 19 42 9, 32 37
S Setting Station Names by ID Code Setting Station Names Manually SHOWVIEW™ Timer Programming Skip Search Slide Show Playback (JPEG Files) Slow Motion Sound Effect Soundtrack Selection	62 62 19 42 9, 32 37
S Setting Station Names by ID Code Setting Station Names Manually SHOWVIEW™ Timer Programming Skip Search Slide Show Playback (JPEG Files) Slow Motion Sound Effect Soundtrack Selection Still Picture/Frame-By-Frame Playback 1	62 24 19 42 9, 32 37 20 9, 32
S Setting Station Names by ID Code Setting Station Names Manually SHOWVIEW™ Timer Programming Skip Search Slide Show Playback (JPEG Files) Slow Motion Sound Effect Soundtrack Selection	62 24 19 42 9, 32 37 20 9, 32
S Setting Station Names by ID Code Setting Station Names Manually SHOWVIEW™ Timer Programming Skip Search Slide Show Playback (JPEG Files) Slow Motion 1 Sound Effect Soundtrack Selection Still Picture/Frame-By-Frame Playback 1 Subtitle Selection T	62 62 19 42 9, 32 37 20 9, 32
S Setting Station Names by ID Code Setting Station Names Manually SHOWVIEW™ Timer Programming Skip Search Slide Show Playback (JPEG Files) Slow Motion 1 Sound Effect Soundtrack Selection Still Picture/Frame-By-Frame Playback 1 Subtitle Selection T	62 62 19 42 9, 32 37 20 9, 32
S Setting Station Names by ID Code Setting Station Names Manually SHOWVIEW™ Timer Programming Skip Search Slide Show Playback (JPEG Files) Slow Motion Sound Effect Soundtrack Selection Still Picture/Frame-By-Frame Playback 1 Subtitle Selection T Tape Position Indicator	62 62 19 42 9, 32 37 20 9, 32 34
S Setting Station Names by ID Code Setting Station Names Manually SHOWVIEW™ Timer Programming Skip Search Slide Show Playback (JPEG Files) Slow Motion Sound Effect Soundtrack Selection Still Picture/Frame-By-Frame Playback Subtitle Selection T Tape Position Indicator Tape Remaining Time Time Search	62 62 19 42 9, 32 37 20 9, 32 34
S Setting Station Names by ID Code Setting Station Names Manually SHOWVIEW™ Timer Programming Skip Search Slide Show Playback (JPEG Files) Slow Motion 1 Sound Effect Soundtrack Selection Still Picture/Frame-By-Frame Playback 1 Subtitle Selection T Tape Position Indicator Tape Remaining Time Time Search Timer Recording 24	62 62 19 42 9, 32 37 20 9, 32 34
S Setting Station Names by ID Code Setting Station Names Manually SHOWVIEW™ Timer Programming Skip Search Slide Show Playback (JPEG Files) Slow Motion 1 Sound Effect Soundtrack Selection Still Picture/Frame-By-Frame Playback 1 Subtitle Selection T Tape Position Indicator Tape Remaining Time Time Search Timer Recording 24	62 62 19 42 9, 32 37 20 9, 32 34
S Setting Station Names by ID Code Setting Station Names Manually SHOWVIEW™ Timer Programming Skip Search Slide Show Playback (JPEG Files) Slow Motion 1 Sound Effect Soundtrack Selection Still Picture/Frame-By-Frame Playback 1 Subtitle Selection T Tape Position Indicator Tape Remaining Time Time Search Timer Recording 22 Tuner Set 55	62 24 19 42 9, 32 37 20 9, 32 34 7
S Setting Station Names by ID Code Setting Station Names Manually SHOWVIEW™ Timer Programming Skip Search Slide Show Playback (JPEG Files) Slow Motion	62 24 42 9, 32 37 20 9, 32 34 7 22 34 1 – 29 9 – 63 13
S Setting Station Names by ID Code Setting Station Names Manually SHOWVIEW™ Timer Programming Skip Search Slide Show Playback (JPEG Files) Slow Motion 1 Sound Effect Soundtrack Selection Still Picture/Frame-By-Frame Playback Subtitle Selection T Tape Position Indicator Tape Remaining Time Time Search Timer Recording 124 Tuner Set T-V LINK TV Station and ID List	62 24 42 9, 32 37 20 9, 32 34 7 22 34 1 – 29 9 – 63 13
S Setting Station Names by ID Code Setting Station Names Manually SHOWVIEW™ Timer Programming Skip Search Slide Show Playback (JPEG Files) Slow Motion 1 Sound Effect Soundtrack Selection Still Picture/Frame-By-Frame Playback 1 Subtitle Selection T Tape Position Indicator Tape Remaining Time Time Search Timer Recording 24 Tuner Set T-V LINK TV Station and ID List V	62 62 24 19 9, 32 20 9, 32 34 7 22 34 1 – 29 0 – 63 63
S Setting Station Names by ID Code Setting Station Names Manually SHOWVIEW™ Timer Programming Skip Search Slide Show Playback (JPEG Files) Slow Motion Sound Effect Soundtrack Selection Still Picture/Frame-By-Frame Playback 1 Subtitle Selection T Tape Position Indicator Tape Remaining Time Time Search Timer Recording 12 Tuner Set T-V LINK TV Station and ID List V Variable Speed Search 1 Setting Station Names by ID Code Setting Programming Skip Search 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	62 62 24 19 9, 32 37 20 9, 32 34 7 22 34 4 – 29 0 – 63 63
Setting Station Names by ID Code Setting Station Names Manually SHOWVIEW™ Timer Programming Skip Search Slide Show Playback (JPEG Files) Slow Motion Sound Effect Soundtrack Selection Still Picture/Frame-By-Frame Playback 1 Subtitle Selection T Tape Position Indicator Tape Remaining Time Time Search Timer Recording Tuner Set T-V LINK TV Station and ID List V Variable Speed Search 1 VFP Function 1 Tope Name Playback 1 Set Search 1 Timer Recording 1 24 Tuner Set Search 1 Ty Station and ID List 1 V	62 24 19 9, 32 34 4-29 9-63 34 4-29 9-63 63
S Setting Station Names by ID Code Setting Station Names Manually SHOWVIEW™ Timer Programming Skip Search Slide Show Playback (JPEG Files) Slow Motion Sound Effect Soundtrack Selection Still Picture/Frame-By-Frame Playback 1 Subtitle Selection T Tape Position Indicator Tape Remaining Time Time Search Timer Recording T-V LINK TV Station and ID List V Variable Speed Search Video Channel Set	62 24 19 9, 32 37 20 9, 32 34 4 – 29 9 – 63 63
Setting Station Names by ID Code Setting Station Names Manually SHOWVIEW™ Timer Programming Skip Search Slide Show Playback (JPEG Files) Slow Motion Sound Effect Soundtrack Selection Still Picture/Frame-By-Frame Playback 1 Subtitle Selection T Tape Position Indicator Tape Remaining Time Time Search Timer Recording Tuner Set T-V LINK TV Station and ID List V Variable Speed Search 1 VFP Function 1 Tope Name Playback 1 Set Search 1 Timer Recording 1 24 Tuner Set Search 1 Ty Station and ID List 1 V	62 24 19 9, 32 37 20 9, 32 34 4 – 29 9 – 63 63
S Setting Station Names by ID Code Setting Station Names Manually SHOWVIEW™ Timer Programming Skip Search Slide Show Playback (JPEG Files) Slow Motion Sound Effect Soundtrack Selection Still Picture/Frame-By-Frame Playback 1 Subtitle Selection T Tape Position Indicator Tape Remaining Time Time Search Timer Recording T-V LINK TV Station and ID List V Variable Speed Search Video Channel Set	62 24 19 9, 32 37 20 9, 32 34 4 – 29 9 – 63 63
Setting Station Names by ID Code Setting Station Names Manually SHOWVIEW™ Timer Programming Skip Search Slide Show Playback (JPEG Files) Slow Motion Sound Effect Soundtrack Selection Still Picture/Frame-By-Frame Playback 1 Subtitle Selection T Tape Position Indicator Tape Remaining Time Time Search Timer Recording 124 Tuner Set T-V LINK TV Station and ID List V Variable Speed Search Video Channel Set VPS/PDC Recording W When Programmes Overlap Each Other	62 24 19 9, 32 37 20 9, 32 34 4 - 29 9 - 63 63 9, 32 64 25
Setting Station Names by ID Code Setting Station Names Manually SHOWVIEW™ Timer Programming Skip Search Slide Show Playback (JPEG Files) Slow Motion Sound Effect Soundtrack Selection Still Picture/Frame-By-Frame Playback 1 Subtitle Selection T Tape Position Indicator Tape Remaining Time Time Search Timer Recording 124 Tuner Set T-V LINK TV Station and ID List V Variable Speed Search Video Channel Set VPS/PDC Recording W When Programmes Overlap Each Other	62 24 19 9, 32 37 20 9, 32 34 4 - 29 9 - 63 63 9, 32 64 25
Setting Station Names by ID Code Setting Station Names Manually SHOWVIEW™ Timer Programming Skip Search Slide Show Playback (JPEG Files) Slow Motion 1 Sound Effect Soundtrack Selection Still Picture/Frame-By-Frame Playback Subtitle Selection T Tape Position Indicator Tape Remaining Time Time Search Timer Recording Timer Recording Tuner Set T-V LINK TV Station and ID List V V Variable Speed Search VFP Function Video Channel Set VPS/PDC Recording W When Programmes Overlap Each Other When Receiving a Scrambled Broadcast	62 24 19 9, 32 37 20 9, 32 34 4 - 29 9 - 63 63 9, 32 64 25
Setting Station Names by ID Code Setting Station Names Manually SHOWVIEW™ Timer Programming Skip Search Slide Show Playback (JPEG Files) Slow Motion Sound Effect Soundtrack Selection Still Picture/Frame-By-Frame Playback 1 Subtitle Selection T Tape Position Indicator Tape Remaining Time Time Search Timer Recording 124 Tuner Set T-V LINK TV Station and ID List V Variable Speed Search VFP Function Video Channel Set VPS/PDC Recording W When Programmes Overlap Each Other When Receiving a Scrambled Broadcast Z	62 24 19 9, 32 37 20 9, 32 34 4 - 29 9 - 63 63 9, 32 64 65
Setting Station Names by ID Code Setting Station Names Manually SHOWVIEW™ Timer Programming Skip Search Slide Show Playback (JPEG Files) Slow Motion 1 Sound Effect Soundtrack Selection Still Picture/Frame-By-Frame Playback Subtitle Selection T Tape Position Indicator Tape Remaining Time Time Search Timer Recording Timer Recording Tuner Set T-V LINK TV Station and ID List V V Variable Speed Search VFP Function Video Channel Set VPS/PDC Recording W When Programmes Overlap Each Other When Receiving a Scrambled Broadcast	62 24 19 9, 32 37 20 9, 32 34 4 - 29 9 - 63 63 9, 32 64 65
Setting Station Names by ID Code Setting Station Names Manually SHOWVIEW™ Timer Programming Skip Search Slide Show Playback (JPEG Files) Slow Motion Sound Effect Soundtrack Selection Still Picture/Frame-By-Frame Playback 1 Subtitle Selection T Tape Position Indicator Tape Remaining Time Time Search Timer Recording 124 Tuner Set T-V LINK TV Station and ID List V Variable Speed Search VFP Function Video Channel Set VPS/PDC Recording W When Programmes Overlap Each Other When Receiving a Scrambled Broadcast Z	62 24 19 9, 32 37 20 9, 32 34 4 - 29 9 - 63 63 9, 32 64 65
Setting Station Names by ID Code Setting Station Names Manually SHOWVIEW™ Timer Programming Skip Search Slide Show Playback (JPEG Files) Slow Motion Sound Effect Soundtrack Selection Still Picture/Frame-By-Frame Playback 1 Subtitle Selection T Tape Position Indicator Tape Remaining Time Time Search Timer Recording 124 Tuner Set T-V LINK TV Station and ID List V Variable Speed Search VFP Function Video Channel Set VPS/PDC Recording W When Programmes Overlap Each Other When Receiving a Scrambled Broadcast Z	62 24 19 9, 32 37 20 9, 32 34 4 - 29 9 - 63 63 9, 32 64 65











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Filename [XV48EX_EN_13Cov4.fm]

XV48EX_EN_01.book Page 72 Saturday, October 9, 2004 10:34 PM

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