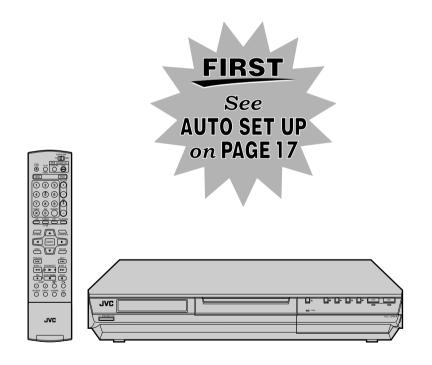
# JVC



# **DVD & HDD VIDEO RECORDER**

# DR-MH200SE





















# 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:**

A UNIT IS A CLASS 1 LASER PRODUCT. HOWEVER THIS UNIT USES A VISIBLE LASER BEAM WHICH COULD CAUSE HAZARDOUS RADIATION EXPOSURE IF DIRECTED. BE SURE TO OPERATE THE UNIT CORRECTLY AS INSTRUCTED.

WHEN THIS UNIT 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 UNIT.

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

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

#### **IMPORTANT:**

- Please read the various precautions on page 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:

- When you are not using the unit for a long period of time, it is recommended that you disconnect the power cord from the
- 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.
- The mains plug shall remain readily operable.

CAUTION

VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM. DO NOT STARE INTO BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS.

SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING. UNDGÅ UDSAETTELSE FOR STRÅLING ADVARSEL SYNLIG UG USYNLIG LASENS I NALING VED ADJUNCTION SE IKKE IND I STRÅLEN - HELLER IKKE MED OPTISKE INSTRUMENTER.

SYNLIG OG USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES. UNDGÅ EKSPONERING FOR STRÅLEN ADVARSEL SYNLIG OG USYNLIG LASERS I HALING INAN DENSEL AT I INSTRUMENTER. STIRR IKKE INN I STRÅLEN ELLER SE DIREKTE MED OPTISKE INSTRUMENTER.

Varo!

VARNING

AVATTAESSA OLET ALTTIINA NÄKYVÄÄ JA NÄKYMÄTÖN LASERSÄTEILYLLE. ÄLÄ TUIJOTA SÄTEESEEN ÄLÄKÄ KATSO SITÄ OPTISEN LAITTEEN LÄPI.

SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. STRÅLEN ÄR FARLIG

STIRRA EJ IN I STRÅLEN OCH BETRAKTA EJ STRÅLEN MED OPTISKA INSTRUMENT.







- Manufactured under licence from Dolby Laboratories. "Dolby" and double-D symbol are trademarks of Dolby Laboratories.
- "DTS" and "DTS DIGITAL OUT" are trademarks of Digital Theater Systems, Inc.
- SHOWVIEW is a trademark of Gemstar Development Corporation. The SHOWVIEW system is manufactured under license from Gemstar Development Corporation.
- This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing users only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

#### 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 U/ button does not completely shut off mains power from the unit, but switches operating current on and off. "O" shows electrical power standby and "I" shows ON.

#### Failure to heed the following precautions may result in damage to the unit, remote control or disc.

- 1. DO NOT place the unit -
  - in an environment prone to extreme temperatures or humidity
  - in direct sunlight.
  - in a dusty environment.
  - in an environment where strong magnetic fields are generated. In addition, do not place TVs or other appliances which tend to generate strong magnetic fields on top of the unit as it may cause picture disturbance.
  - 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. When installing the equipment, make sure there is a space allowance of 10 cm or more on both sides, on top and at the rear of the equipment.
- 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.
- 7. 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. In conditions where condensation may occur, disconnect the unit's power plug from the wall and keep it disconnected for a few hours to let the moisture dry, then turn on the unit

#### DISCLAIMER OF LIABILITY

JVC shall not be liable for any loss relating to the unit's failure to properly record, store or playback any content (video, audio or otherwise) for any reason whatsoever. Any applicable warranties shall only cover replacement or repair of the effected unit, and shall not apply to recovery or replacement of lost content.

#### ATTENTION:

- 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.
- When moving the product, press  $\circlearrowleft/I$  to turn off the power, and wait at least 30 seconds before unplugging the power cord. Then, wait at least 2 minutes before moving the product.
- If there is a power outage when using the unit, the recorded data may be erased.
- It is recommended to back up discs which contain important recordings periodically (every few years). As digital signals do not deteriorate, failure to play back or record might arise due to the effects of the disc aging through the years depending on the storage environment.
- Recorded programs and data cannot be restored once the disc is damaged.
- When discarding batteries, environmental problems must be considered and the local rules or laws governing the disposal of these batteries must be followed strictly.

#### Information for Users on Disposal of Old Equipment



## ATTENTION:

This symbol is only valid in the European Union.

#### [European Union]

This symbol indicates that the electrical and electronic equipment should not be disposed as general household waste at its end-of-life. Instead, the product should be handed over to the applicable collection point for the recycling of electrical and electronic equipment for proper treatment, recovery and recycling in accordance with your national legislation.

By disposing of this product correctly, you will help to conserve natural resources and will help prevent potential negative effects on the environment and human health which could otherwise be caused by inappropriate waste handling of this product. For more information about collection point and recycling of this product, please contact your local municipal office, your household waste disposal service or the shop where you purchased the product.

about the take-back of the product.

Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation. (Business users) If you wish to dispose of this product, please visit our web page www.jvc-europe.com to obtain information

#### [Other Countries outside the European Union]

If you wish to dispose of this product, please do so in accordance with applicable national legislation or other rules in your country for the treatment of old electrical and electronic equipment.

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#### **HOW TO USE THIS INSTRUCTION MANUAL**

- All major sections and subsections are listed in the Table Of Contents on page 4. Use this when searching for information on a specific procedure or feature.
- The Index on pages 10 13 illustrates the controls and connections on the front and rear panel, the front display panel and the remote control.
- The list of terms on page 89 lists frequently-used terms, and the number of the page on which they are used or explained in the manual.
- The 🖙 mark signals a reference to another page for instructions or related information.
- Operation buttons necessary for the various procedures are clearly indicated through the use of illustrations at the beginning of each major section.

## **About Discs**

## Recordable/Playable Discs

You can use discs with the following logos for recording and playback.



# RW F

#### **DVD-RAM**

12 cm: 4.7 GB/9.4 GB 8 cm: 1.4 GB/2.8 GB Ver. 2.0/2x speed Ver. 2.1/1x – 3x speed Ver. 2.2/5x speed

#### **DVD-RW**

12 cm: 4.7 GB/9.4 GB Ver. 1.1/1x – 2x speed (Video mode/VR mode) Ver. 1.2/4x speed (Video mode/VR mode)



#### DVD-R

12 cm: 4.7 GB 8 cm: 1.4 GB Ver. 2.0/1x – 4x/8x speed (Video mode) Ver. 2.1/16x speed (Video mode)

- The above table is based on the information as of May 2005.
- Recording and playback may not be performed depending on the characteristics and condition of the disc used, leading to unsatisfactory results. Using discs manufactured by JVC is recommended since they have been tested to be compatible with this unit.

#### **DVD-RAM Discs**

It is only possible to use discs which conform with DVD-RAM standard Version 2.0 or 2.1.

- It is impossible to record on DVD-RAM discs which do not conform to this standard. If you use a disc formatted under a different standard version, format it on this unit before use.
- It may not be possible to record, play back, edit or dub a DVD-RAM disc even if it conforms to the standard if it was recorded or edited on the devices from other manufacturers or on a PC, or if it has far too many titles, or if there is very little available capacity remaining on the disc.
- DVD-RAM discs recorded on this unit cannot be played back on an incompatible DVD player.
- It is possible to record copy-once programmes of digital broadcasts only onto 4.7/9.4 GB DVD-RAM discs (2.8 GB DVD-RAM discs are not compatible).
- Although this unit supports 5x speed DVD-RAM discs, dubbing cannot be achieved at 5x speed.

#### **DVD-R/RW Discs**

It is only possible to use DVD-R discs which conform with DVD-R standard Version 2.0.

 Although this unit supports 8x and 16x speed DVD-R discs, dubbing cannot be achieved at 8x and 16x speed.

When a DVD-R/RW disc (Video mode) is finalised ( pg. 79), it can be played back on a standard DVD player as a DVD VIDEO disc.

When a DVD-RW disc (VR mode) is finalised (Fig. pg. 79), it can be played back on a standard DVD player compatible with the VR mode of DVD-RW discs.

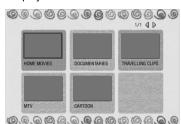
#### Before finalising —

- it is possible to record on unrecorded areas of the disc, edit the disc title and programme titles, and delete programmes.
- It is impossible to record or edit DVD-R/RW discs recorded on other devices even if they have not been finalised.
- It is impossible to overwrite recorded areas of DVD-R discs.
- Available recording capacity does not increase even if a recorded programme is deleted from a DVD-R disc.

#### After finalising -

After a DVD-R/RW disc (Video mode) has been finalised, it is possible to play back the recorded programmes (video and/or audio) on a standard DVD video player as a DVD VIDEO disc.

- Edited titles are displayed as the "DVD menu" in video mode.
- It is impossible to record, edit or delete the data either in video mode or in VR mode.
- Either in video mode or in VR mode, although the disc can be played back on DVD players from other



- manufacturers, sometimes it may not be possible to play back depending on the disc and recording conditions.
- It is impossible to record on CD-R/RW or DVD-R discs used for authoring.
- It is impossible to record onto DVD-R/RW (Video mode) discs broadcasts that allow you to copy once. The copy once programmes can only be recorded onto DVD-RW discs formatted in VR mode.

#### **NOTE:**

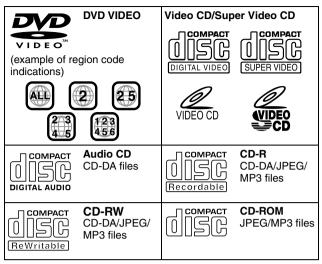
The following may result if you play back a DVD-R disc recorded on another unit.

- The disc does not play.
- A mosaic pattern (block noise) appears on the screen.
- Video or audio may be dropped out.
- The unit stops during playback.

#### **6** EN

## **Discs For Playback Only**

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



- Playback may not be performed depending on the characteristics and condition of the disc used.
- DTS Audio CDs can also be played back (An optional DTS decoder is required).
- MP3 and JPEG discs can be played back on this unit only when they have been recorded in the ISO9660 or Joliet format and finalised.
- JPEG files that can be played back on this unit must conform to JFIF/Baseline process, and the maximum resolution of a JPEG file is 2,812 pixels in width and 2,112 pixels in height.
- CD-R/RW discs recorded in music CD format need to be finalised to play back on this unit.
- Operation and audio quality of this unit are not guaranteed for discs that do not conform to the Compact Disc specification (CD-DA).

Before you play back a CD, check for the CD logo and read the notes on the package to confirm that it conforms to the Compact Disc specification.

- Depending on the intentions of the author of the software, recording conditions of DVD discs and Video CD/SVCD discs may be restricted. Since this unit plays back discs according to the intentions of the author of the software as indicated on the disc, some functions may not operate as commanded.
- When switching from the first layer to the second layer of double-layered DVD VIDEO discs, the image and sound may be momentarily distorted. This is not a malfunction.
- DVD-AUDIO discs compatible with DVD video players can be played.
- Super Audio CDs (SACD) compatible with conventional CD players can be played.

## **Unplayable Discs**

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

- CD-ROM discs (including PHOTO-CD and CD-G)
- Discs recorded in Packet Write (UDF) format
- 1.3 GB double density CDs (DDCD)
- High density CDs (HDCD)
- DVD-R DL (single-sided double-layer) discs

#### The following discs also cannot be played back.

- Discs of a region number other than "2"
- DVD-RAM (2.6 GB/5.2 GB)
- DVD-RAM (TYPE1)

#### Caution for DualDisc playback

The Non-DVD side of a "DualDisc" does not comply with the "Compact Disc Digital Audio" standard. Therefore, the use of Non-DVD side of a DualDisc on this product may not be recommended.

#### 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" or "ALL" can be played back such as shown below.

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











#### Marks of discs in this instruction manual



Allows operation with a DVD-RAM disc.



Allows operation with a DVD-R disc.



Mows operation with



Allows operation with a DVD-RW disc.



Allows operation with a DVD VIDEO disc.



Allows operation with a Video CD/Super Video CD (SVCD) disc.



Allows operation with an Audio CD disc.



Allows operation with a disc including MP3 files.



Allows operation with a disc including JPEG files.

#### **Recording Medium And Format**

#### DVD-RAM

- Recording and erasing can be performed as many times as possible on a disc.
- Editing can be performed after recording, such as deleting unwanted parts.
- While recording, it is possible not only to start playback of a programme currently being recorded, but also to watch another programme previously recorded.

#### **DVD-RW (VR mode)**

- Recording and erasing can be performed as many times as possible on a disc.
- Editing can be performed after recording, such as deleting unwanted parts.

#### **DVD-RW (Video mode)**

- Can be played back on other DVD players.
- New recording can be performed by erasing all the data on a disc once played back.

#### DVD-R

- Can be played back on other DVD players.
- Suitable when keeping a recorded disc for a long time.

#### File Structure Of Discs

#### DVD VIDEO

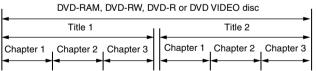
Typically, DVD VIDEO discs are made up of larger units called "titles". Each title has a number (title number) that can be used to select desired titles. Titles are further divided into units called "chapters". Each chapter has a number (chapter number) that can also be used to select desired chapters.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

## When you record a programme on a DVD-RAM/RW (VR mode) disc

A single recording session results in a single title (a single chapter). However, chapter marks are automatically inserted when recording is paused, or audio changes from monaural to stereo due to commercial breaks, etc. It is also possible to insert chapter marks at desired locations during playback. (FEF pg. 27)

# When you record a programme on a DVD-R/RW (Video mode) disc

A single recording session results in a single title (a single chapter). However, chapter marks are automatically inserted when recording is paused, or audio changes due to commercial breaks, etc. It is also possible to insert chapter marks at desired locations during either recording or playback. Once the disc has been finalised, these chapter marks are deleted and new chapter marks are assigned automatically approximately every 5 minutes.

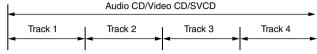


- In Video mode, even before finalising, it is impossible to perform editing operations other than changing the disc name and/or title names and deleting programmes and/or titles.
- After finalising, it is impossible to perform editing operations.

#### Audio CD/Video CD/SVCD

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

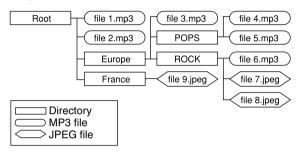
However, some discs are not divided into tracks.



#### JPEG/MP3 Disc (CD-R/RW/ROM)

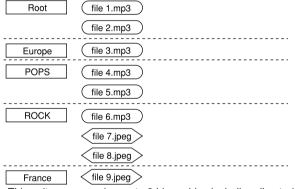
MP3/JPEG files put in directories nested in several levels on a disc will be organized as if they were put in single level directories (groups) by the MP3/JPEG Navigation of this unit. (Fig. pg. 57)

# File structure of a disc before starting the MP3/JPEG Navigation



# File structure of the disc after starting the MP3/JPEG Navigation

Files are automatically grouped as follows and displayed on the MP3/JPEG Navigation screen. Data is displayed in the alphabetical order of file name. Files are grouped based on roots.



 This unit can recognise up to 9 hierarchies including directories and files.

Also, it can recognise up to 250 files in each group, and up to 99 groups on a disc.

#### **NOTES:**

Video CD/SVCD discs that support Playback Control (PBC)
 The contents of a disc are recorded into several hierarchies, and

The contents of a disc are recorded into several hierarchies, and played back according to the instructions on the screen while navigating through the hierarchies. It is also possible to playback recorded tracks consecutively without activating the PBC function even when playing a PBC-compatible disc. (Fig. pg. 28)

Regarding the contents recorded on discs

Some files may not be played back depending on the file types and other factors.

#### **8** EN

#### **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 the disc. Check the marks indicating the contents and functions of the 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	Numb	Number of subtitles		Number of angles
4:3		rded under the ard 4:3 aspect	LB	Screen includes black bands at the top and the 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 cutout).		

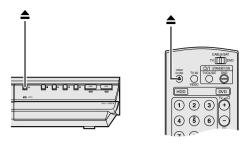
#### Marks related to audio

3))	Number of audio tracks
DI DOLBY	Dolby Digital mark It has been developed by Dolby Laboratories as a digital surround system.
DIGITAL SURROUND	DTS (Digital Theater Systems) You can enjoy DTS audio if you connect an amplifier with a built-in DTS decoder to the DIGITAL OUT connector of the unit.

## **Placing A Disc**

#### Opening the disc tray

Press ≜ to open the disc tray.



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

#### **Discs without cartridges**



Disc tray

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

#### **DVD-RAM** discs contained in cartridges

#### Double-sided discs:

Remove the disc from the cartridge. Align the disc with the grooves on the disc tray as shown in the illustration and insert with the side you wish to play back or record facing down. If you insert the disc with "Side A" facing down, programmes are recorded on the side A.

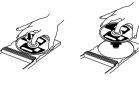
#### Single-sided discs:

Remove the disc from the cartridge. Align the disc with the grooves on the disc tray as shown in the illustration and insert with the label side facing up.

#### **Care And Handling Of Discs**

#### How to handle discs

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



#### Label side

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

#### Recording side

Make sure that discs are not scratched or dirty on the recording side before use. Scratches and dirt on the recording side of a disc may hinder proper playback and recording. Also be careful that a DVD-RAM disc may get scratched or dirty when removed from cartridge then put back in after use.

#### 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 centre 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.

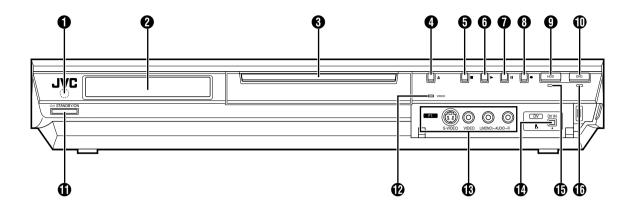


#### CAUTION:

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

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

#### Front View

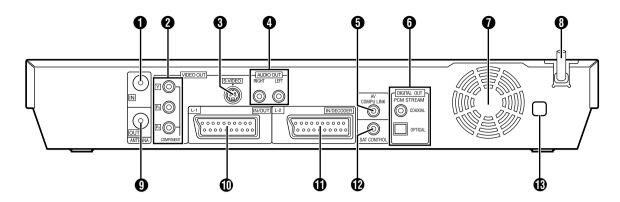


- 1 Infrared Beam Receiving Window
- 2 Front Display Panel ☞ pg. 12
- O Disc Tray
- Open/Close Button (≜) 

  pg. 8
- **⑤** Stop Button (■) 🖙 pg. 24, 40
- **6** Play Button (▶) ☞ pg. 24, 40
- Pause Button (11) 10 pg. 24, 40
- Record Button (●) □ pg. 35, 38
- 1 HDD Button 🖙 pg. 38
- This button will not function during navigation mode or set up mode.
- DVD Button 
   pg. 24
- This button will not function during navigation mode or set up mode.

- ⑥ Standby/On Button (STANDBY/ON ७/۱)
- W Video Lamp (VIDEO) ™ pg. 36, 39
- (B) S-video/Video/Audio Input Connector [S-VIDEO/VIDEO/ AUDIO ((MONO) L/R)] ☞ pg. 62
- (1) DV Input connector [DV IN (1,\*)] ™ pg. 60
  - \* , (i.Link) refers to the IEEE1394-1995 industry specification and extensions thereof. The , logo is used for products compliant with the i.Link standard.
- (B) HDD Lamp (HDD) № pg. 38
- (f) DVD Lamp (DVD) ™ pg. 24

#### **Rear View**



- Antenna Input Connector [ANTENNA IN] 

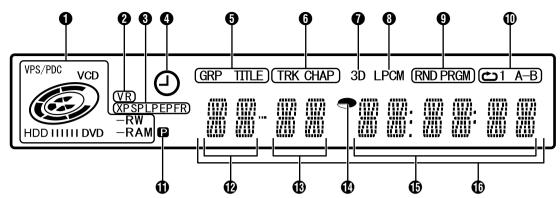
  □ pq. 16
- Component Video Output Connectors [COMPONENT] VIDEO OUT (Y/PB/PR)] is pg. 16
- S-video Output Connector [S-VIDEO] ™ pg. 16
- Audio Output Connectors [AUDIO OUT (RIGHT/LEFT)] ₽ pg. 61, 69
- AV COMPU LINK Connector\*
  - Not function with this unit.
- **(i)** Digital Audio Output Connectors [DIGITAL AUDIO OUT (OPTICAL/COAXIAL)] Pg. 61, 69
- Cooling Fan
- This prevents the temperature from rising inside the unit. Do not remove it.
- Install the unit so as not to block the area around the fan.
- The unit may become hot when it is turned off, as the cooling fan on the rear of the unit is not activated. However, the cooling fan may be activated in the following cases;
- In the Automatic Satellite Programme Recording standby mode (Fig. 49), slightly before the starting time of VPS/PDC recording (pg. 46).
- If you connect the decoder or satellite receiver to [L-2 IN/ DÉCODER], and if "L-2 SELECT" is set to "DECODER", "SAT VIDEO" or "SAT S-VIDEO". (1887 pg. 65)
- When "JUST CLOCK" is set to "ON" (IS pg. 77). (Set "JUST CLOCK" to "OFF" if you mind the noise of the fan.)

- AC Power Cord 

   pg. 16
- Antenna Output Connector [ANTENNA OUT] r pg. 16
- L-1 Input/Output Connector [L-1 IN/OUT] 
   pg. 16, 63, 68, 69
- L-2 Input/Decoder Connector [L-2 IN/DECODER] 

   □ pg. 22, 63, 68, 69
- (B) Region Number Label r pg. 6

#### Front Display Panel



#### **1** VPS/PDC Indicator pg. 46

Appears when checking if the station being received transmits a VPS/PDC signal.

#### Disc Type Indicator

When a disc is loaded, the type of the disc is indicated.

#### **Disc Status Indicator**

When a disc is running, the disc marks rotate.

During High-Speed Search:

Rotate faster than normal playback.

**During Slow Motion:** 

Rotate slower than normal playback.

While recording:

Inner red ring lights in the same way as normal playback. During Instant Timer Recording (ITR), inner red ring slowly blinks.

While paused:

Disc marks blink when either recording or playing back.

While stopped: Disc marks all light.
While resume stopped: Disc marks all blink.
While the disc tray opened: Disc marks all light out.
No disc on the disc tray: Disc marks all light out.

② VR Mode Indicator (VR) 

□ pg. 78

Lights when a DVD-RW disc is formatted in VR mode.

Recording Mode Indicator (XP/SP/LP/EP/FR) 
 pg. 35
 Blinks when recording mode is being set.

While "FR" is blinking, the left 3 digits of the Multi Display (**1**) indicate setting values ranging from "60" to "480". After the value has been set, only "FR" lights.

◆ VPS/PDC Recording Indicator 

→ pg. 46

Lights when VPS/PDC recording function is activated.

G Group/Title Indicator (GRP/TITLE)

"GRP" or "TITLE" lights depending on a disc loaded while the left 2 digits of the Multi Display (1) indicate the numbers explained below.

"GRP": Total number of groups or group number being played back are displayed on the Multi Display.

"TITLE": Total number of titles or title number being played back are displayed on the Multi Display.

Track/Chapter Indicator (TRK/CHAP)

"TRK" or "CHAP" lights depending on a disc loaded while the 3rd and 4th digits from the left of the Multi Display (19) indicate the numbers explained below.

"TRK": Total number of tracks or track number being played back are displayed on the Multi Display.

"CHAP": Chapter number being played back are displayed on the Multi Display.

Simulated Surround Effect Indicator (3D) 

pg. 32

Lights when a simulated surround effect is set to "3D-ON" on the on-screen bar.

3 Linear PCM Indicator (LPCM)

Lights when "XP MODE REC AUDIO" is set to "LINEAR PCM" (Fig. 71) for recording with HDD, DVD-RAM, DVD-R and DVD-RW discs, and when Linear PCM audio is played.

 Random/Programme Playback Mode Indicator (RND/ PRGM) 
 □ pg. 33

"RND": Lights when Random Playback mode is set.
"PRGM": Lights when Programme Playback mode is set.

Repeat Mode Indicator (♠)/1/A-B) 
 pg. 30

Select Repeat Playback mode on the on-screen bar.

"D": Whole disc is played back repeatedly.

A single title/chapter/track is played back repeatedly.

"—A-B": The selected part (A-B) is played back repeatedly.

No display: Repeat Playback mode is off.

Video Output Indicator (₱) 
 pg. 72

No display: Indicates that interlace mode is engaged.

Indicates that progressive mode is engaged.

(Example) Ights when video output mode is in progressive mode.

Group/Title Number Display

Track/Chapter Number Display

Remaining Time/Elapsed Time Indicator ☞ pg. 27, 36 Lights when remaining time of HDD, DVD-RAM, DVD-R and DVD-RW discs is displayed, and lights out when elapsed time is displayed.

The right 6 digits of the Multi Display (1) indicate elapsed or remaining time of each track.

No display: Indicates elapsed time of the disc. Displayed: Indicates remaining time of the disc.

⊕ Remaining Time/Elapsed Time Display 

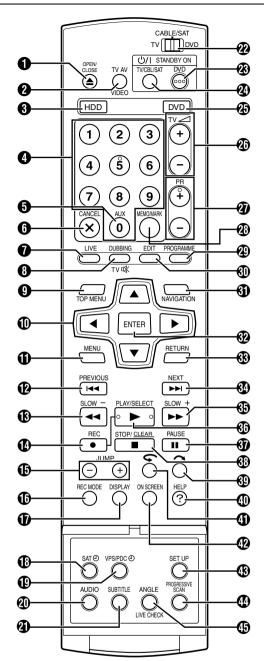
□ pg. 27, 36

Multi Display

Displays clock, received channel, elapsed time, and remaining time.

Also displays status of the unit (NO DISC/OPEN/CLOSE/READING).

#### Remote Control



- Open/Close Button (▲) 
   pg. 8
- 2 TV AV/VIDEO Button is pg. 36, 39
- HDD Button\* ☞ pg. 38
  - This button will not function during navigation mode or set up mode.
- Number Keys 
  pg. 35, 38
- Auxiliary Button (AUX) 

  pg. 47, 73
- 6 Cancel Button (CANCEL(X)) 

  pg. 33
- 1 Live Button (LIVE) 1 pg. 43
- ⊕ Dubbing Button (DUBBING) 

  □ pq. 58 TV Muting Button (TV域) 🖙 pg. 66
- ¶ Top Menu Button (TOP MENU) 
  ¬ pg. 25
- Selection Keys (△▽⊲▷) 
   pg. 17
- Menu Button (MENU) ™ pg. 25
- Reverse Skip Button (◄◄) 
   pg. 25, 43, 41 Previous Button (PREVIOUS) pg. 28
- Reverse Search Button (◄◄) ☞ pg. 25, 43 Reverse Slow Button (SLOW -) pg. 26
- Record Button (●) □ pg. 35, 38
- (1) Jump Button (JUMP +/-) □ pg. 26, 41

- (f) Recording Mode Button (REC MODE) № pg. 35, 38
- Display Button (DISPLAY) pg. 27, 36
- r pa. 49 pa. 49
- ( VPS/PDC Recording Button (VPS/PDC →) pg. 46
- Audio Button (AUDIO) 
   pg. 28
- 2 Subtitle Button (SUBTITLE) is pg. 28
- TV/CABLE/SAT/DVD switch r pg. 20
- DVD STANDBY/ON Button (DVD⊕/I)
- TV/CBL/SAT STANDBY/ON Button (TV/CBL/SAT()/I) rs pg. 66
- DVD Button\* 
   □ pg. 24
- This button will not function during navigation mode or set up mode.
- TV Volume Buttons (TV ∠ +/-) 
   pq. 66
- Programme Buttons (PR +/-) pg. 35, 66
- Memo Button (MEMO) 🖙 pg. 51, 55 Mark Button (MARK) is pg. 27
- ② Programming Button (PROGRAMME) 
  □ pg. 45, 47, 48
- n Edit Button (EDIT) ₪ pg. 51
- Navigation Button (NAVIGATION) pg. 50
- Enter Button (ENTER) 

   pg. 20
- Return Button (RETURN) pg. 28, 31, 45
- Forward Skip Button (►►I) □ pg. 25, 43 Next Button (NEXT) № pg. 28
- ⑤ Forward Search Button (►►) 

  pg. 25, 43 Forward Slow Button (SLOW +) pg. 26
- ⑤ Play Button (▶) ☞ pg. 24, 40 Select Button (SELECT) is pg. 57
- Pause Button (II) 
   pg. 24, 40
- Stop Button (■) □ pg. 24, 40 Clear Button (CLEAR) is pg. 33
- Skip Search Button (♠) 
   pg. 26, 43
- (1) Help button (?) Is pg. 80
- (1) One Touch Replay Button ( ) pg. 43
- On-Screen Button (ON SCREEN) 
   pg. 14, 29
- Set Up Button (SET UP) 

  pg. 20
- M Progressive Scan Button (PROGRESSIVE SCAN) Ppg. 72
- ♠ Angle Button (ANGLE) (DVD deck only) 

  pg. 27 Live Check Button (LIVE CHECK) pg. 43

#### **How To Use**

Before use, insert two R6 size batteries into the remote control with the polarity (⊕ and ⊖) matched correctly as indicated on the battery compartment or on the lid.

The remote control can operate most of your unit's functions, as well as basic functions of TV sets and satellite receivers and other brands. (Fig. pg. 66)

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

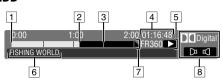
#### NOTE:

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

## **On-Screen Display**

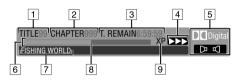
When "SUPERIMPOSE" is set to "AUTO" and **ON SCREEN** on the remote control is pressed, various operational indicators appear on the TV screen. To clear the operational indicators, press **ON SCREEN** twice.

# When playing back a recorded title HDD



- 1 Title start
- 2 Current playback point
- Title end
- Elapsed playing time
- 5 Play mode
- 6 Name of title currently being played back
- Time scale (This title is an hour and a half long.)
- 8 Audio mode

#### DVD



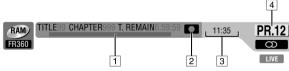
- 1 Playback title number
- Playback chapter number
- 3 Disc remaining time
- 4 Current status (playback)
- 5 Audio mode
- 6 Bar meter
- 7 Name of title (or play list) currently being played back
- 8 Current playback point
- 9 Recorded mode

#### When recording

#### HDD



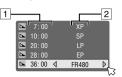
#### DVD



- 1 Recording point
- 2 Current status (recording)
- 3 Current time
- 4 Recording channel number

#### When pressing REC MODE

(Appears for eight seconds.)



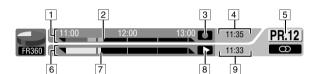
- 1 Remaining disc time for each recording speed
- 2 Recording speed

#### When pressing • during recording

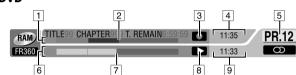


1 Recording time for Instant Timer Recording (ITR) mode

# When using Live Memory playback HDD



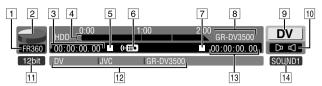
#### DVD



- 1 Time scale for recording (HDD deck)
  Bar meter for recording (DVD deck)
- 2 Current recording point
- 3 Recording mode
- 4 Current time
- 5 Current playback channel position number
- Time scale for Live Memory Playback (HDD deck)
  Bar meter for Live Memory Playback (DVD deck)
- 7 Current playback point
- 8 Live Memory playback mode
- 9 Current playback time

## **On-Screen Display (DV Dubbing)**

#### When capturing images from the external DV equipment



- 1 Recording speed
- HDD capacity graph
- 3 HDD time counter
- Recording time scale
- HDD mode
- Remote control mode
- Connected DV equipment mode
- Connected DV equipment model information
- 9 Input channel
- 10 Sound mode
- 11 Sound input bit-rate\*
  - \* Indicates the sound bit-rate of the connected DV equipment
- [12] Connected DV equipment information\*
  - \* Maker name and model name, etc. may not appear depending on the connected equipment.
- 13 Time counter for the connected DV equipment
- 14 Sound monitor mode

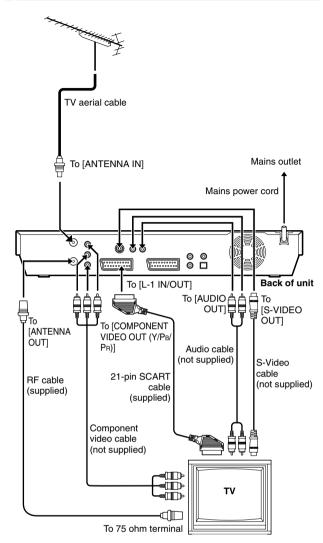


- 15 Remote control switch
- 16 Auto capture button
- 17 Sound monitor switch



18 Elapsed recording time

## **Basic Connections**



It's essential that your unit be properly connected.

#### ATTENTION:

- Your TV must have a 21-pin AV input connector (SCART) for the basic connection to the unit.
- Connect the AC plug only after all connections to the TV has been completed.

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

- Make sure the package contains all of the accessories listed in "SPECIFICATIONS" (reg pg. 84).
- Place the unit on a stable, horizontal surface.
- Connect the unit to a TV depending on the TV and cables you

#### ■ Basic Connection

#### To connect to a TV with 21-pin SCART input connector —

- Disconnect the TV aerial cable from the TV.
- Connect the TV aerial cable to the [ANTENNA IN] connector on the rear panel of the unit.
- 3 Connect the [ANTENNA OUT] connector on the rear panel of the unit and the TV's aerial connector with the supplied RF
- 4 Connect the [L-1 IN/OUT] connector on the rear panel of the unit and the TV's 21-pin SCART connector with a supplied 21pin SCART cable.
  - The [L-1 IN/OUT] connector accepts and delivers either a composite signal (regular video signal), Y/C signal or RGB
  - Set your TV to the VIDEO (or AV), Y/C, or RGB mode according to the type of your TV's SCART connector.

#### **S-Video Connection**

#### To connect to TV's S-VIDEO input and AUDIO input connectors -

- Perform 1 3 in "Basic Connection".
- 2 Connect the unit's [S-VIDEO OUT] connector to the TV's S-VIDEO input connector.
- 3 Connect the unit's [AUDIO OUT] connectors to the TV's AUDIO input connectors.
  - You can obtain high quality S-VHS pictures.
- If your TV is not stereo capable, use the unit's [AUDIO OUT] connectors to connect to an audio amplifier for Hi-Fi stereo sound reproduction.

#### ■ Component Video Connection

#### To connect to TV's component video input connectors —

- Perform 1 3 in "Basic Connection".
- 2 Connect the unit's [COMPONENT VIDEO OUT (Y/PB/PR)] connectors to the TV's component video input connectors.
- Connect the unit's [AUDIO OUT] connectors to the TV's AUDIO input connectors.
  - You can obtain high-quality component video pictures.
  - If your TV is not stereo-capable, use the unit's [AUDIO OUT] connectors to connect to an audio amplifier for Hi-Fi stereo sound reproduction.
  - By using the component video connection, you can view the images in the progressive mode. For switching to the progressive mode, refer to "Scan Mode Set" ( pg. 72).

Select an appropriate option of "L-1 OUTPUT" as follows (**p** pg. 64):

When your TV's SCART connector accepts:	Set "L-1 OUTPUT" to:
Composite signals	"SCART VIDEO"
Y/C signal (separated luminance (brightness) and chrominance (colour) signals)	"SCART S-VIDEO"
RGB signal	"SCART RGB"
Component video signal	"COMPONENT"

When the setting selected is not in accordance with the TV connected and depending on the type of appliance connected to the unit, the correct picture will not appear.

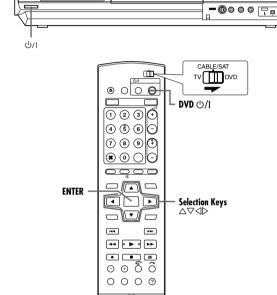
- 4 Plug the end of the mains power cord into a mains outlet.
  - "LOADING" blinks on the front display panel when the AC plug of the mains power cord is connected into a mains outlet and it takes approximately 50 seconds for the unit to be turned on. This is not a malfunction.

# Auto Set Up

## Auto Channel Set/Auto Clock Set/Auto Guide **Programme Number Set**

After the  $\circlearrowleft$ /| button on the unit (or **DVD**  $\circlearrowleft$ /| on the remote control) is pressed for the first time to turn on the unit, by simply selecting your country\*, the Auto Set Up function sets the tuner channels, clock\*\* and Guide Programme 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), set the clock manually.



#### Before starting, make sure of the following:

00

• The TV aerial cable should be connected to the unit.

0000

• The unit's mains power cord should be connected to a mains

0

- Turn on the TV and select the AV mode.
- Slide the TV/CABLE/SAT/DVD switch to DVD.
- Press U/I on the unit or **DVD** U/I on the remote control to turn on the unit. The Country Set display appears on the TV screen.

NEDERI AND

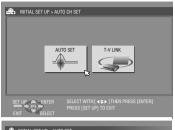
2 Press selection keys to select your country's name, then press ENTER.

#### **NOTES:**

- If you have selected "BELGIUM" or "SUISSE". go to step 3.
- If you have selected "MAGYARORSZÁG" "ČESKÁ REPUBLIKA"
  - "POLSKA" or "OTHER EASTERN", press ENTER. The Clock Set screen appears. Set the clock manually (pg. 77), then go to
- If you have selected any other country name, go to step 4.

- 3 Press selection keys to select the language of your choice, then press **ENTER.** The AUTO SET/ T-V LINK display appears on the TV screen.
- Press selection keys to select "AUTO SET", then press ENTER. The AUTO SET screen will appear.
- When AUTO SET is completed, "SCAN COMPLETED" appears on the TV screen. Select







#### ATTENTION:

"AUTO" blinks on the front display panel; do NOT press any button on the unit or remote control until the front display panel shows "--:--" as illustrated on page 19.

• When you have connected the unit to a TV offering T-V Link via a fully-wired 21-pin SCART cable ( pg. 16) and the TV is turned on, the unit automatically performs the Preset Download (pg. 18) even if you select "AUTO SET" for Auto Set Up function.

#### ATTENTION:

Once you have performed Auto Set Up, even if the unit's memory backup has expired, all the stored stations and their Guide Programme numbers remain in the unit's memory and the unit will not perform Auto Set Up again. The unit only performs Auto Clock Set when the unit is turned on.

If you have moved to a different area, perform each setting as required.

- Tuner setting (reg. 74)
- Clock setting (
   pg. 77)

If a new station starts broadcasting in your area, perform tuner setting. (reg pg. 74)

#### **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 Programme Number Set.
- If there is a power cut, or if you press ७/I 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 1.
- 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. (pg. 76, "INFORMATION")

After "Auto Set Up" is completed, perform "Monitor Set" on page 21.

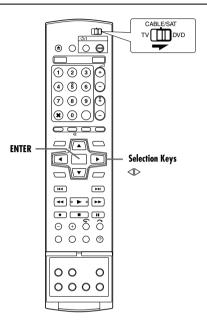
## **Preset Download**

## Auto Channel Set by Downloading from TV/Auto Clock Set/Auto Guide Programme Number Set

#### 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 a fully-wired 21-pin SCART cable. The degree of compatibility and available functions may differ by system.



If you have connected the unit to your TV via a 21-pin SCART cable (pg. 16), the unit will automatically perform Preset Download instead of the Auto Set Up in step 4 on page 17. After downloading, the unit sets the clock and Guide Programme numbers automatically.

- Slide the TV/CABLE/SAT/DVD switch to DVD.
- Perform steps 1 to 3 of "Auto Set Up" (pg. 17) before continuina.
- Press selection keys to select "T-V LINK" and press ENTER. The T-V LINK screen will appear.
- When T-V LINK is completed, "SCAN COMPLETED" appears on the TV screen. Select "OK".





#### ATTENTION:

Preset positions on the front display panel increase from "PR 1"; do NOT press any button on the unit or remote control until the front display panel shows clock time, "PR 1" or "--:--" as illustrated on page 19.

• If you press any button on the unit or remote control while downloading is in progress, it will be interrupted.

- 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 Programme Number Set.
- If there is a power cut, or if you press ⊕/I 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 beginning.
- 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, -, \*, + and \_ (space). Some names of downloaded stations may differ from those of your TV. (1287 pg. 76)

After "Preset Download" is completed, perform "Monitor Set" on page 21.

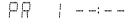
#### Results Of Auto Set Up/Preset Download Appearing On The Front Display Panel

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

Turn on the TV and select its AV mode, then make sure that all necessary stations have been stored in the unit's memory by using the **PR**  $+\dot{l}$  button(s).

- If station names (ID ™ pg. 88) have also been stored in the unit's memory, the station name will be displayed at the top right 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 75 - 76.

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



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

- 1 Turn on the TV and select its 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. 88) have also been stored in the unit's memory, the station name will be displayed at the top right 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 75 - 76.
- Perform "Clock Set" (pg. 77).

#### ATTENTION:

After making sure the cables are connected properly, 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" (pg. 17) or "Preset Download" (pg. 18) again.

#### **IMPORTANT:**

- To check if the Guide Programme numbers have been set correctly, perform the SHOWVIEW Timer Programming. (1887 pg. 45)
- In certain reception conditions, station names may not be stored correctly, and auto Guide Programme Number Set may not work properly. If the Guide Programme 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. (rs pa. 45)
- Your unit memorizes all detected stations even if reception of some of them is poor. You can delete those stations with an unacceptable picture. (reg pg. 75, "Delete A Channel")

#### **INFORMATION**

#### Language for the on-screen display

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 17 (unless you have selected "BELGIUM" or "SUISSE"), as shown below.

SUOMI	→ SUOMI	ITALIA	→ ITALIANO
PORTUGAL	→ ENGLISH	MAGYARORSZÁG	→ ENGLISH
DEUTSCHLAND	→ DEUTSCH	ESPAÑA	→ ESPAÑOL
POLSKA	→ ENGLISH	NEDERLAND	→ NEDERLANDS
NORGE	→ NORSK	GREECE	→ ENGLISH
SVERIGE	→ SVENSKA	OTHER WESTERN	→ ENGLISH
DANMARK	→ DANSK		
ÖSTERREICH	→ DEUTSCH	OTHER EASTERN	→ ENGLISH
ČESKÁ REPUBLIKA	→ ENGLISH		

If you want to change the language setting manually, see "Onscreen Language Set" (pg. 20).

#### 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". (reg pg. 77)

#### T-V Link Functions

When you connect the unit to your TV via a fully-wired 21-pin SCART cable (pg. 16), 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 a 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 start playback.

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

#### **Unit Auto Standby**

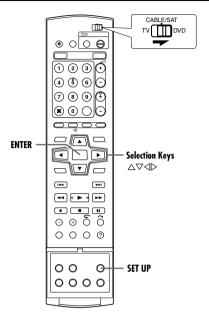
You can use your TV's remote control to turn off the unit. For details, refer to the instruction manual of your TV.

#### **Direct Rec**

You can easily start recording the programme that you are watching on your TV. When you use this function, set "DIRECT REC" to "ON". (128 pg. 71)

## Language

- Turn on the unit.
- Turn on the TV and select the AV mode.
- Slide the TV/CABLE/SAT/DVD switch to DVD.



#### **On-screen Language Set**

This unit offers you the choice to view on-screen messages in 10 different languages.

- Press **SET UP** to access the Main Menu screen.
- 2 Press selection keys to select "FUNCTION SET UP", then press ▽.
- **3** Press selection keys to select "DISPLAY SET", then press ∇.
- 4 Press selection keys to select "ON SCREEN LANGUAGE", then press ENTER.
- 5 Press selection keys to select your desired language, then press ENTER.



**6** Press **SET UP** to complete the setting.

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

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

- The procedure shows how to set "MENU LANGUAGE" as an example.
- Press SET UP to access the Main Menu screen.
- 2 Press selection keys to select "DVD VIDEO SET UP", then press ▽.
- **3** Press selection keys to select "LANGUAGE SET", then press ∇.
- 4 Press selection keys to select "MENU LANGUAGE", then press ENTER.
- 5 Press selection keys to select your desired language, then press ENTER.



- See "Language Code List" (re pg. 85).
- **6** Press **SET UP** to complete the setting.

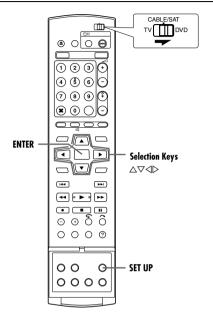
#### NOTE:

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

## **Monitor Set**

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 unit.
- Turn on the TV and select the AV mode.
- Slide the TV/CABLE/SAT/DVD switch to DVD.



- 1 Press SET UP to access the Main Menu screen.
- You cannot set the monitor type during recording or playback.
- 2 Press selection kevs to select "FUNCTION SET UP", then press ∇.
- 3 Press selection keys to select "VIDEO IN/OUT", then press  $\nabla$ .
- Press selection keys to select "MONITOR TYPE", then press ENTER.
- 5 Press selection kevs to select the desired option, then press ENTER.
- DVD VIDEO SET UP HDD/DVD SET UP FUNCTION SET UP INITIAL SET UP REC/PLAY SET UP DISPLAY SET VIDEO IN/OUT MONITOR TYPE F-1 INPUT L-1 OUTPUT L-1 INPUT L-2 SELECT
- **6** Press **SET UP** to complete the setting.
- \* The **boldface** settings below indicate the settings at your purchase.

#### ■ MONITOR TYPE - 4:3LB / 4:3PS / 16:9AUTO / 16:9FIX

**4:3LB** (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.

4:3PS (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.

16:9AUT0 (Wide television conversion):

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

16:9FIX (Wide television conversion):

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

#### Pan&Scan/Letter Box

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

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

#### Pan&Scan

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

• The picture will be shown in the "4:3LB" mode depending on the disc even if the "4:3PS" mode is selected.



#### **Letter Box**

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

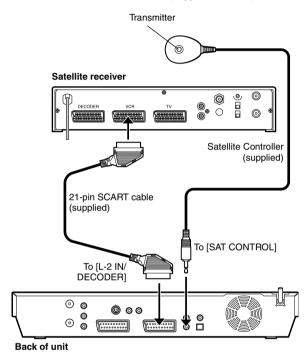


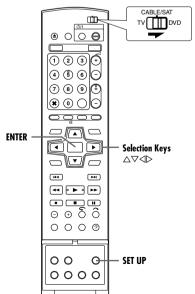
Your unit

# Satellite receiver

Satellite Controller

(supplied) (suggested location)





The following procedure is required if you receive satellite channels through a satellite receiver. Approximately 20 seconds before the SHOWVIEW timer programming (© pg. 45) or Manual Timer programming (© pg. 47) starts, the unit sets its input mode to "L-2" and automatically switches the satellite receiver's channels using the provided Satellite Controller.

## **Installing Satellite Controller**

- Place the Satellite Controller so that the path between its transmitter and the satellite receiver's remote sensor is unobstructed.
- 2 Fix securely using the adhesive strip attached on the back of the Satellite Controller.
- 3 Be sure to connect the unit's [L-2 IN/DECODER] connector to the satellite receiver's 21-pin SCART connector.

#### NOTE:

When connecting your satellite receiver, refer to its instruction manual.

4 Connect the Satellite Controller to the [SAT CONTROL] connector on the rear panel.

#### Setting Satellite Receiver's Brand And Channel

After installation, set the satellite receiver's brand and channel correctly; otherwise, the Satellite Controller cannot work correctly.

- Turn on the unit.
- Turn on the TV and select the AV mode.
- Slide the TV/CABLE/SAT/DVD switch to DVD.
- 1 Turn on the satellite receiver's power.
- 2 Press SET UP to access the Main Menu screen.
- 3 Press selection keys to select "INITIAL SET UP", then press 

  ▽.
- 4 Press selection keys to select "TUNER SET", then press ▽.
- **5** Press selection keys to select "SAT CONTROL SET", then press ENTER.
- 6 Press selection keys to select "BRAND", then press ENTER.



- **7** Press **selection keys** to select the brand code from the list on page 23, then press **ENTER**.
- If the unit is in playback or recording mode, you cannot set the brand code.
- 8 Press selection keys to select "PROGRAMME", then press ENTER.
- Press selection keys to select one of the channel positions on the satellite receiver, then press ENTER.
  - You can select the channel position between 1 to 999.
- 10 Press selection keys to select "TEST", then press ENTER. The unit enters the Test mode.



#### 11 Check the result of the test.

#### If the satellite receiver's channel number has been changed to the same one as you set in step 9

Press selection keys to select "YES", then press ENTER to finish the Sat Control Set mode.

#### If the satellite receiver's channel number has not been changed correctly

Press selection keys to select "NO", then press ENTER. Then perform the procedure again from step 6.

JVC 73 AMSTRAD 60, 61, 62, 63, 92 ASTON 97 CANAL SATELLITE 81 CANAL + 81 D-BOX 85 ECHOSTAR (VIA DIGITAL) 82 FINLUX 68 FORCE 89 GALAXIS 88 GRUNDIG 64, 65, 102 HIRSCHMANN 64, 78, 99 HUMAX 88 ITT NOKIA 68 JERROLD 75 KATHREIN 70, 71, 96 LUXOR 68 MASCOM 93 MASPRO 70 NOKIA 87, 94	BRAND NAME	CODE
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PANASONIC 74, 92		
PHILIPS 66, 84, 101		
RADIX 78	_	
RFT 69	· · · · · · · · ·	
SABA 97		
SAGEM 83, 90	- · · - · ·	
SALORA 68		· ·
SAMSUNG 83		
SIEMENS 64		
SKYMASTER 69, 98		
TECHNISAT 66, 100		
THOMSON 97		
TPS 83		
TRIAX 91	TRIAX	
WISI 64	WISI	64

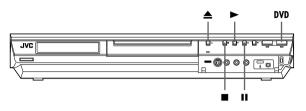
#### **NOTES:**

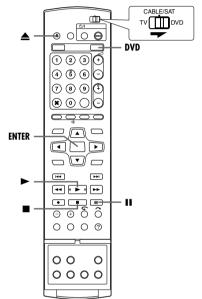
- The Satellite Controller may not work with all types of satellite receiver.
- For some satellite receivers, you need to set its channel input mode to 2 digit.
- If your satellite receiver has more than two channel modes, be sure to set to "All Channel Mode". For details, refer to the instruction manual of the satellite receiver.
- When selecting the satellite receiver's channel (see step 9), signals from the remote control may interfere with signals transmitted from the Satellite Controller. In this case, move the remote control as close to the unit's infrared beam receiving window as possible.

# Basic Playback



- Turn on the unit.
- Turn on the TV and select the AV mode.
- Slide the TV/CABLE/SAT/DVD switch to DVD.





#### **ATTENTION:**

- It takes approximately 30 seconds to read a disc depending on the type and condition of the disc since this unit is multi-disc compatible (DVD-RAM, DVD-RW, DVD-R). It may even take several minutes when a disc is dirty, scratched or warped.
- It may take a few seconds to start playback. This is not a malfunction.
- Forward/reverse high-speed search and other operations cannot be performed while playback is stopped.

To play back an MP3/JPEG disc. see "Playback With MP3/WMA/ JPEG Navigation" (pg. 57).

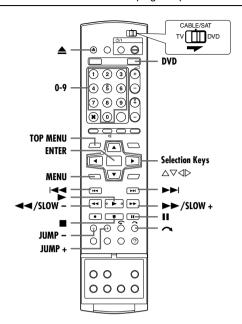
- Load a disc.
- For details, refer to "Placing A Disc" (pg. 8).
- Pressing ▶ also closes the disc tray.
- Playback begins automatically if an auto-playback DVD disc is loaded.
- **2** Press **DVD** so that the DVD lamp lights up on the unit.
- **3** Press ▶ to start playback.
  - If you load a DVD disc whose region code does not match the unit, "REGION CODE ERROR" appears on the TV screen. For details, refer to "Region Number" (pg. 6).
- If "CAN NOT PLAY BACK DISC UNDER CURRENT SETTING" appears on the TV screen, refer to "Parental Lock" (reg pg. 34).
- With Video CD/SVCD discs with PBC control or some DVD discs, the menu display may appear on the TV screen after starting playback. In this case, select an item which you want to play back from the menu. Otherwise, the playback cannot go forward. Refer to "Playback Control (PBC) Function" (Pg. 28) or "Locating A Desired Scene Using The DVD Menu" (rs pg. 25).
- The Library Database Navigation also enables you to search and select the desired titles. (reg pg. 51)
- 4 Press II to pause playback.
- To resume normal playback, press ▶.
- 5 Press to stop playback.
- When a recordable disc is played, playback stops and a programme received with the unit's tuner resumes on the TV screen.
- When a playback-only disc is played, playback stops and the TV screen becomes all blue when you press ■. Pressing ■ again resumes a programme received with the unit's tuner.
- If ≜ is pressed during playback, playback stops, then the disc tray opens.

#### NOTES:

- When the Library Database Navigation screen appears, choose a thumbnail image of the desired title on the TV screen, then press ENTER. (Fig. pg. 51)
- It is not possible to playback the DVD disc recorded in 96 kHz on DVD during recording or Live Memory Playback on HDD.

# Playback Features

- Turn on the unit.
- Turn on the TV and select the AV mode.
- Slide the TV/CABLE/SAT/DVD switch to DVD.
- Press **DVD** so that the DVD lamp lights up on the unit.



#### Locating A Desired Scene Using The DVD Menu



DVD VIDEO discs may have top menu and disc menu.

DVD discs generally have their own menus which show the disc contents. These menus contain various items such as titles of a movie, names of songs, or artist information. You can locate a desired scene by using the top menu displayed on the TV screen. Press TOP MENU to access the top menu.

#### Disc menu

Disc menus include playback data (angle menu, subtitle menu, etc.) specific to each title.

Press MENU to access the disc menu.

- Press TOP MENU or MENU to access the DVD menu.
- 2 Press selection keys to select a desired title, then press **ENTER**. Playback starts.
- It may be possible to select the desired item using the number keys depending on the menu display.



Example:

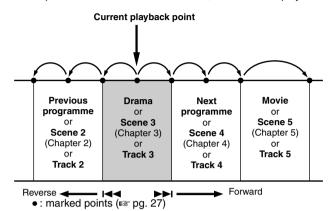
When "O" appears on the TV screen in step 1, the disc does not have a top menu or disc menu.

## Locating The Start Point Of The Item Or Skip The Item



Press I or ▶ during playback.

- Pressing ►► locates the start point or marked points of the item or skips the item in the forward direction, then resumes playback.
- Pressing I◄◄ locates the start point or marked points of the item or skips the item in the reverse direction, then resumes playback.



#### Variable Speed Search

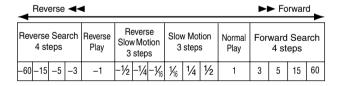


During playback, press ▶► for forward variable speed search, or ◄ for reverse variable speed search.

- Each press of the button increases the search speed for each direction.
- To resume normal playback, press ▶.

#### For Audio CD

You can perform 4 levels of speed search with ▶▶ and ◄◄. (Audio is active also during variable speed search.) You cannot perform slow motion for each direction.



## Still Picture/Frame-By-Frame Playback



- Press II to pause during playback.
- 2 Press SLOW (◄◄) or SLOW + (▶▶) to activate frame-byframe playback.
  - Each press of SLOW (◄◄) or SLOW + (▶►) advances/ reverses the still picture frame by frame.
- Frame-by-frame playback for reverse direction cannot be performed with Video CD/SVCD discs.
- To resume normal playback, press ▶.

Slow Motion

# JPEG

- Press II to pause during playback.
- 2 Press SLOW (◄◄) or SLOW + (▶▶) for 2 or more seconds.
- Each press of SLOW (◄◄) or SLOW + (▶▶) increases the slow motion speed for each direction.
- Slow motion for reverse direction cannot be performed with Video CD/SVCD discs.

#### Skip Search



During playback, press <a>.</a>

- Each press initiates an approximately 30 second period of fastmotion playback. Normal playback resumes automatically.
- Skip search cannot be performed when a VCD/SVCD disc is being played back with the PBC function.

## Jump Search

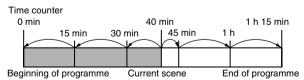


You can locate a scene ahead or behind the current one by jumping scenes according to selected time intervals ( pg. 71) during playback (or Live Memory Playback). Press JUMP - or JUMP +.

- To advance forward or back, press JUMP or JUMP + repeatedly within 5 seconds of each press to continue jump.
- Depending on the time from where you want to start jump search, the first press of JUMP - or JUMP + will not necessarily lead to a jump of the selected time interval. The first press will lead to a jump to the nearest guarter points of an hour (15 min/ 30 min/ 45 min/00 min). The subsequent jumps will then be in accordance to the selected time interval.
- When you cannot advance any further (beginning or end of programme reached), the message "UNABLE TO GO BACK ANY MORE" appears on the screen and the on-air screen resumes. In such a case, press ◄◄, ◄◄ or ■.

#### Example:

Playback search when jump interval is set to 15 MIN jumps. Taking for instance, you want to start jump search 40 minutes after the beginning of the programme. Pressing JUMP - or JUMP + will result in a jump to the scene at the 30 minutes point or 45 minutes point respectively as illustrated below. At the subsequent press, the scene will jump to the 15 minutes point or 1 hour point respectively, according to the selected time interval, which in this case is "15 MIN".



#### NOTE:

Jump search cannot be performed with finalised DVD-R/DVD-RW (video mode) discs.

#### **Resume Function**



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

- Be sure to set "RESUME" to "ON" or "DISC RESUME". (rs pg. 71)
- Resume function always works for DVD-R/DVD-RW discs that have not been finalised and DVD-RAM regardless of the setting of "RESUME".
- Press during playback to memorise a resume point.
- The unit enters Resume Stop mode and memorises the position where you have stopped playback as a resume point. (The inside of the disc status indicator on the front display panel blinks while memorising.)
- The unit retains a memory of the resume points of the last 30 discs played back, even though they have been ejected if "RESUME" is set to "DISC RESUME". (12 pg. 71)
- To clear the resume points:

(The inside of the disc status indicator stops blinking and lights.) When "RESUME" is set to "ON":

- Press ∪/I to turn off the unit.
- Press 

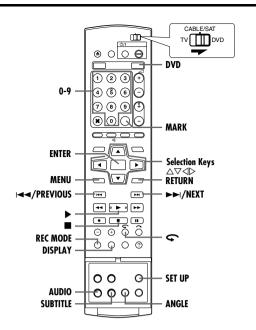
  to take out the disc.
- Press in stop mode.
- Press TOP MENU to display the top menu, then start playback by selecting an item, etc.
- Press MENU to display the disc menu, then start playback by selecting an item, etc.

#### When "RESUME" is set to "DISC RESUME":

- Set "RESUME" to "OFF". (ISST pg. 71)
- Press in stop mode.
- Press TOP MENU to display the top menu, then start playback by selecting an item, etc.
- Press MENU to display the disc menu, then start playback by selecting an item, etc.
- **2** Press ▶ in stop mode to resume playback. The unit starts playback from the resume point.

#### **NOTES:**

- "DISC RESUME" setting works on DVD VIDEO, VCD, SVCD and already finalised DVD-R/DVD-RW (video mode) discs. For other types of discs, the function under "ON" setting will be applied even if "RESUME" is set to "DISC RESUME". (Fig. pg. 71)
- If you stop the playback of a disc for which a resume point has already been memorised, the memory will be updated with the new resume point.
- After the unit has memorised the resume points for 30 discs, remembering a new resume point will cause the unit to delete the oldest memorised point. Stopping playback of a disc for which a resume point is already stored may change the order in which the points are stored. This may potentially change the order in which points are deleted.
- When the unit memorises a resume point for a disc, it also remembers audio language, subtitle and angle settings.
- This function may not work for some Video CD/SVCDs.
- When "RESUME" is changed to "ON" or "OFF" (™ pg. 71), resume points of the discs memorised with "RESUME" set to "DISC RESUME" will be cleared.
- Resume points are memorised for each side of a double-sided
- When you switch to HDD while playing back JPEG/MP3 files, playback stops. The Resume Function doesn't work when you switch to DVD thereafter to playback the disc.



#### Marking Positions To Play Back Again Later















It is possible to mark positions (up to 999 points) where you want to play back once again later, and start playback from a marked position. Marking onto DVD-RAM/RW (VR mode only) discs when recording is helpful to locate a start point when you play back the discs later.

#### To mark positions:

During playback, press MARK at positions you want to mark.

• "MARK" appears on the TV screen. You can easily locate the marked positions using I◄◄ or ▶►I when you play back the disc.

#### To delete the marked positions:

While paused, press i◄ or ▶► to locate a marked position you want to delete, then press MARK.

• Crossed "MARK" appears on the TV screen, and the marked position is deleted.

# MARK

**MARK** 

- When a monaural programme changes to a stereo programme while recording, a mark signal is automatically recorded.
- For DVD-R/RW (Video mode) discs, marks are assigned automatically every 5 minutes.
- If MARK is pressed when playing back a disc that does not allow marks to be inserted, "O" appears on the TV screen.

#### **Checking The Time Information**















You can check time information of a disc on the front display panel and the TV screen.

#### ■ DVD-RAM/DVD-R/DVD-RW

Each press of **DISPLAY** changes the display as follows: Durina recordina

Clock time (front display panel only) → Current title elapsed time → Disc remaining time\* → (back to the beginning)

\* only discs before finalising

#### **During playback**

Each title elapsed time → Current title elapsed time → Disc remaining time\* - (back to the beginning) \* only discs before finalising

#### During recording/playback or in stop mode Press REC MODE.

- The disc remaining time according to recording modes appears on the TV screen.
- In FR mode, it is possible to set recording time in detail using selection keys. (pg. 37)
- It is not possible to switch the recording mode during playback or while recording.

#### ■ Video CD/SVCD/Audio CD

#### During playback or in stop mode

Current track elapsed time → Current track remaining time → Total elapsed time → Total remaining time → (back to the beginning)

When a PBC-compatible Video CD/SVCD disc is loaded, deactivate the PBC function. (FF pg. 28)

#### Angle Selection















**JPEG** 

You can enjoy a variety of scene angles if a DVD VIDEO disc contains "multi-angle" parts, where the same scene was shot from different angles.

If the disc contains "multi-angle" parts, "2" appears on the TV screen at the beginning of the "multi-angle" part.

Press ANGLE during playback. The angle selection display appears on the TV screen.

B 41/8 D

2 Press ANGLE or selection keys to select your desired angle.

When 3 scene angles are contained.

- Each time you press ANGLE or the selection keys, the angle changes.
- When "O" appears on the TV screen, the current scene is not recorded from multiple angles. In addition, some discs prohibit angle selection.
- To clear the angle selection display, press **ENTER**. In addition. the angle selection display disappears automatically if no operation is done for 10 seconds.

#### Subtitle Selection













Some DVD VIDEO discs contain more than one subtitle language. from among which you can choose the desired subtitle language. "...." appears on the TV screen at the beginning of the part where more than one subtitle language are recorded.

Press SUBTITLE during playback. The subtitle selection display appears on the TV screen.

When 3 subtitle languages are contained.

 Each time you press SUBTITLE, the subtitle display is switched on and off.

**2** Press **selection kevs** to select your desired language. • To clear the subtitle selection display, press ENTER.

- When "O" appears on the TV screen, no subtitle language is recorded.
- When the subtitle language won't be changed with the procedure above, change the subtitle on a disc menu displayed by pressing MENU.

#### **Audio Channel Selection**



















When watching bilingual programmes or playing discs on which you recorded bilingual or stereo programmes, you can choose the desired audio channel.

- When "SUPERIMPOSE" is set to "AUTO", you can confirm on the TV screen the audio channel you have chosen. ( pg. 72)
- Each time you press AUDIO, the audio channel changes.

(3) (1+R),

TRACK	USE	
On-Screen Display		
<b>™</b> 1 <b>№</b>	For main audio of bilingual programme	
<b>○</b> 4 1 <b>&gt;</b> □	For sub audio of bilingual programme	
<b>○</b> )) <b>4</b> L + R <b></b>	For stereo discs	
<b>○</b> 4	For audio of left channel	
<b>&gt;&gt;&gt;</b> 4 R <b>&gt;</b> <sub>□</sub>	For audio of right channel	

It is not possible for DVD-R/DVD-RW (Video mode) disc playback to switch the audio channel. The audio channel is played back as set in "VIDEO MODE RECORDING AUDIO" setting. ( pg. 71)

#### When you can't switch the audio channel of a bilingual programme

When the unit is connected with a digital audio device using an optional optical cable and "DIGITAL AUDIO OUT" is set to "DOLBY DIGITAL/PCM", it is not possible to switch the audio channel of a bilingual programme recorded on a DVD-RAM or DVD-RW (VR mode) disc. ( pg. 69) In this case, perform the following steps using the remote control to switch "DIGITAL AUDIO OUT" from "DOLBY DIGITAL/PCM" to "PCM ONLY".

- 1 Press SET UP to access the Main Menu screen.
- Press selection keys to select "DVD VIDEO SET UP", then press ▽.
- 3 Press selection keys to select "AUDIO OUTPUT", then press
- 4 Press selection keys to select "DIGITAL AUDIO OUT", then press ENTER.
- Fress selection keys to select "PCM ONLY", then press **ENTER**. (**©** pg. 70)
- Press **SET UP** to complete the setting.
- Press AUDIO to select the desired audio channel.

#### Audio Language/Sound Selection









Some DVD VIDEO discs contain the multiple audio language or

sound. You can select the desired audio language or sound. For some Video CD/SVCD discs, you can switch the audio channel to









choose Karaoke either with or without the vocal. Press **AUDIO** during playback. The Audio Language/Sound

selection display appears.

For example: DVD VIDEO

2 Press AUDIO or selection kevs to select your desired audio language/sound.

When 3 audio languages are contained.

- Each time you press AUDIO or the selection keys, the audio language/sound changes.
- To clear the Audio Language/Sound selection display, press ENTER.

#### NOTES:

- When "O" appears on the TV screen, no audio language is recorded.
- When the audio language won't be changed with the procedure above, change the audio on a disc menu displayed by pressing MENU.
- Pressing AUDIO to select the audio language/sound is only possible during playback. It is not possible to select by pressing AUDIO in stop mode. However, you can select the desired audio language/sound from the setup menu while in stop mode.

## Playback Control (PBC) Function















Some Video CD/SVCD discs support the PBC function. PBC is an abbreviation of "Play Back 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.

- Press ▶ in stop mode. The PBC menu appears.
- 2 Press the number keys to enter the number of the desired scene, then press ENTER. The unit starts playback of the selected item.
  - "PBC" appears on the front display panel.
  - When "NEXT" or "PREVIOUS" appears on the TV screen: Pressing **NEXT**(►►I) advances to the next page. Pressing **PREVIOUS**(I◄◄) returns to the previous page.
  - You can return to the menu by pressing **RETURN**.
  - The method of the operation is different depending on the disc.

If you want to playback a PBC-compatible Video CD/SVCD disc without activating the PBC function, start playback with the PBC function, then press 
■ to stop playback. The TV screen becomes all blue. Then start playback in stop mode by using the **number** keys to choose the track, then press ENTER.

## One Touch Replay

















You can move back the playback position slightly.

Press 🗬.

- Each press skips back for approximately 7 seconds and resumes playback.
- Pressing while paused skips back for approximately 7 seconds and resumes pause.

# Using The On-screen Bar

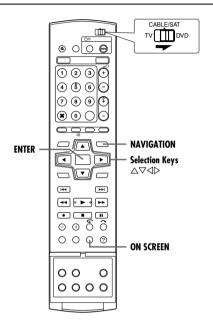


The on-screen bar allows you to control various playback functions. Some of the functions operated on Navigation Menu can be controlled on the On-screen bar.

#### ATTENTION:

The on-screen bar can also be used for the HDD deck.

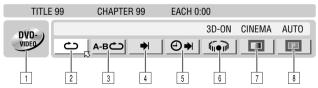
Be sure to clear Library Database Navigation screen by pressing NAVIGATION.



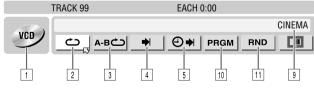
#### How To Access The On-screen Bar

1 Press ON SCREEN twice whenever a disc is loaded.

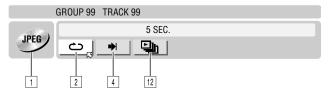
#### Contents of the on-screen bar during playback **DVD VIDEO**



#### Video CD/SVCD



#### JPEG disc



- 1 Disc type.
- Select this for Repeat Playback. (18 pg. 30) 2
- Select this for A-B Repeat Playback. (pg. 30)
- Select this for search function. (pg. 31)
- Select this for time search function. (pg. 31)
- Select this to switch Simulated Surround Effect function. 6 (🖙 pg. 32)
- Select this for Picture Control function. (128 pg. 32)
- Select this to switch picture source type. (1887 pg. 32)
- 9 Current status area for the selected item.
- 53 Select this for Programme Playback. (reg pg. 33)
- Select this for Random Playback. ( pg. 33)
- 12 Select this to control the switching interval of the slide show. (rs pg. 33)

#### NOTE:

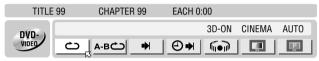
Although examples of the on-screen bar are provided here only for 3 types of discs, the on-screen bar will be displayed for whichever disc indicated in the left column.

#### Basic Operation On The On-screen Bar

Example: When selecting Picture Control function of DVD

#### During playback or while stopped

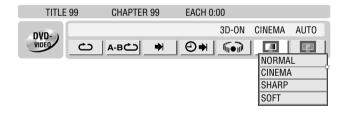
Press ON SCREEN twice to access the on-screen bar. The item currently selected is highlighted and pointed by  $\square$ .



2 Press selection keys to select " ", then press ENTER. The pop-up window appears under the selected item.



**3** Press **selection keys** to select the desired option, then press ENTER.



To clear the on-screen bar Press ON SCREEN.

See the corresponding pages for details on each menu item.

# Repeat Playback



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

- Press ON SCREEN twice to access the on-screen bar.
- 2 Press selection keys to select " , then press ENTER. The pop-up window appears under the selected item.



3 Press selection keys repeatedly to select the desired Repeat mode, then press ENTER.

#### DVD-RAM/RW/R

OFF:

Repeat playback is not performed.

ALL REPEAT:

The whole disc is played back repeatedly.

TITLE REPEAT:

The current title is played back repeatedly.

#### **DVD VIDEO**

OFF:

Repeat playback is not performed.

TITLE REPEAT:

The current title is played back repeatedly.

CHAPTER REPEAT:

The current chapter is played back repeatedly.

#### Audio CD/Video CD/SVCD/JPEG/MP3

OFF:

Repeat playback is not performed.

ALL REPEAT:

The whole disc is played back repeatedly.

TRACK REPEAT\*:

The current track is played back repeatedly.

"TRACK REPEAT" cannot be selected for JPEG discs.

#### To clear the on-screen bar

Press ON SCREEN.

#### To cancel Repeat Playback

Repeat the above procedure from step 1, select "OFF" in step 3, then press ENTER.

#### **NOTES:**

- Repeat Playback is not possible for a Video CD/SVCD with PBC
- Repeat Playback may not work properly depending on the type of the disc being used.

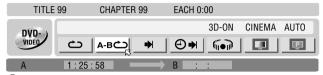
#### A-B Repeat Playback



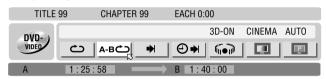
You can repeat the desired part.

#### During playback

- Press ON SCREEN twice to access the on-screen bar.
- 2 Press selection keys to select "A-B 🖒".
- Press **ENTER** at the beginning of the desired part you want to repeat (point A). The elapsed playing time of the point A appears.



- Press ENTER at the end of the desired part you want to repeat (point B). The elapsed playing time of the point B appears.
- The selected part of the disc (between point A and B) is played repeatedly.



To clear the on-screen bar Press ON SCREEN.

To cancel A-B Repeat Playback

Press **selection keys** to select "A-B ", then press **ENTER**.

- A-B Repeat Playback may not work properly depending on the type of disc being used.
- The subtitles recorded around the A-B point may not appear.
- When the end of the item is reached before the end point is set. the on-screen bar disappears from the TV screen. In such a case, repeat the procedure from step 1.
- The point B must be set at least 3 seconds after the point A.
- When playing back a DVD. A-B Repeat Playback is possible only within the same title.
- "A-B " cannot be selected during Programme and Random Plavback.
- "A-B " cannot be selected while stopped.

#### **Locating The Beginning Of A Desired Selection**



You can locate the beginning of a title, chapter, group or track.

#### During playback or while stopped

- 1 Press ON SCREEN twice to access the on-screen bar.
- 2 Press selection keys to select "→|", then press ENTER.
- 3 Press selection keys to select the desired item, then press ENTER.
- Skip this step for Video CD/SVCD and Audio CD.

#### For DVD-RAM/RW/R, DVD VIDEO

"TITLE SEARCH" or "CHAPTER SEARCH" is selectable. (However, "CHAPTER SEARCH" is not selectable while stopped.)

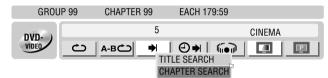
"GROUP SEARCH" or "TRACK SEARCH" is selectable. (However, "TRACK SEARCH" is not selectable while stopped.)

#### For Video CD/SVCD, Audio CD

"TRACK" is selectable.

#### NOTE:

Settings that are selectable during playback and stop mode differ depending on the type of disc and search used.



- 4 Press the number keys to enter the desired item number, then press ENTER.
  - Playback starts from the selected section.

#### Examples:

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

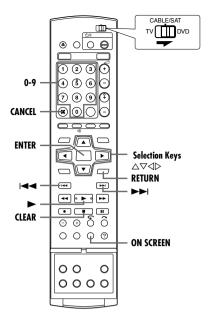
#### If you have specified a wrong selection

Press **RETURN** on the remote control and repeat the above procedures from step 2.

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

#### **NOTES:**

- When "O" is displayed on the TV screen in step 4, the chapter you have selected is not contained in the disc, or chapter search does not work on the disc.
- Before you press ENTER, playback may start automatically when you enter the section's number depending on the disc.
- This function is not possible for a Video CD/SVCD with PBC function.

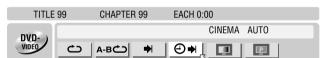


#### Time Search



You can play back a disc from the desired point by specifying the elapsed playing time from the beginning of a programme (DVD-RAM, DVD-R, DVD-RW, DVD VIDEO and HDD) or a disc (Video CD/SVCD and Audio CD).

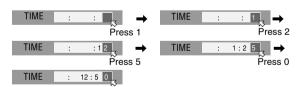
- Press ON SCREEN twice to access the on-screen bar.
- Press **selection keys** to select "🕒 🖈 ", then press **ENTER**. The pop-up window appears under the selected item.



3 Press the number keys to enter the time, then press ENTER. Playback starts from the specified time.

#### Example:

To play back from a point 12 (minutes): 50 (seconds) elapsed.



#### If you have specified a wrong selection,

Press **RETURN** on the remote control and repeat the above procedures from step 2.

To clear the on-screen bar Press ON SCREEN.

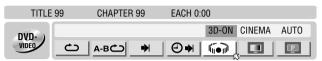
- When "O" is displayed on the TV screen in step 3, you have selected a point that exceeds the recording time of the disc.
- Some DVD VIDEO discs do not contain time information, and it is not possible to use the Time Search function. In such cases, "\O" is displayed on the TV screen as well.
- This function is not possible for a Video CD/SVCD with PBC function.

# Simulated Surround Effect



It is possible to get a simulated surround effect from your stereo system. You can enjoy the virtual surround sound with your 2 channel stereo system.

- 1 Press ON SCREEN twice to access the on-screen bar.
- 2 Press selection keys to select " , then press ENTER.
- "3D-ON" appears above the selected item and Simulated Surround Effect is activated.
- Each time you press ENTER, "3D-ON" appears and disappears alternately.



To clear the on-screen bar Press ON SCREEN.

**To cancel the simulated surround effect**Press **ENTER** to clear "3D-ON" from the screen.

#### NOTES:

- Simulated Surround Effect works correctly only when playing back a title recorded in multichannels.
- Simulated Surround Effect does not affect the DVD VIDEO bitstream signal from the [DIGITAL AUDIO OUT] connectors.
- When Simulated Surround Effect is activated, the settings of "ANALOG AUDIO OUT" and "D. RANGE CONTROL" are disabled. (Lest pg. 70)
- Simulated Surround Effect cannot be activated under the following conditions:
  - When the HDD deck is in the recording mode.
  - When the HDD or DVD deck is in the timer standby mode.
- When a disc containing both the Dolby Digital 5.1 ĆH and 2 CH sound formats is playing back a scene that is not in the 5.1 CH sound format.

## **Adjusting The Picture Quality**



You can obtain optimal picture quality by selecting an appropriate picture mode.

- 1 Press ON SCREEN twice to access the on-screen bar.
- 2 Press selection keys to select " ", then press ENTER. The pop-up window appears under the selected item.



3 Press selection keys to select the desired option, then press ENTER.

NORMAL:

Normally select this option.

CINEMA:

Suitable for a movie disc, etc.

SHARP

Clearer, sharper-edged picture when viewing images with lots of flat, same-coloured surfaces such as cartoons.

SOFT:

Select this option when too much noise appears.

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

#### **Setting The Progressive Mode**



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).

- 1 Set the unit to the progressive scan mode. (reg pg. 72)
- 2 Press ON SCREEN twice to access the on-screen bar.
- 3 Press selection keys to select "", then press ENTER. The pop-up window appears under the selected item.



4 Press selection keys to select the desired option, then press ENTER.

#### AUTO:

This mode automatically detects film and video content for progressive playback. When film content is found, flag detection is used to invoke playback of film data in full screen. When video content is found, pictures from multiple fields are used to detect sections with movement, and then this movement undergoes advanced image processing for output of sharp, detailed progressive images without any reduction in image quality where movement occurs. Normally, operation in this mode is recommended.

#### FILM:

Suitable for playing back a progressive scanned film source disc. VIDEO:

Suitable for playing back a video source disc. The outlines on the played back pictures will be soft.

To clear the on-screen bar Press ON SCREEN.

#### NOTE:

When the progressive mode is set, be sure to set "L-1 OUTPUT" to "COMPONENT" (ISST pg. 64). Progressive scan is output only from [COMPONENT VIDEO OUT] connectors.

## **Programme Playback**



You can programme up to 30 tracks (Video CD/SVCD or Audio CD) to play back in the desired order.

#### While stopped

- Press ON SCREEN twice to access the on-screen bar.
- 2 Press selection keys to select "PRGM", then press ENTER. The programme table appears under on-screen bar.



3 Press the number keys to enter the track numbers in the desired order.

#### Examples:

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



3 To select track 25, press the number key "2" and "5".

#### If you have specified a wrong selection

Press **CANCEL**( $\times$ ). The last selection is erased. Or press **CLEAR**(■). The whole selection is erased.

- **4** Press ▶. Playback starts in the programmed order.
  - When all of the programmed tracks have been played back, Programme Playback stops, but the programmed information
  - To add tracks to the end of the programme, perform steps 1 through 3.
  - During Programme Playback, pressing ►►I skips to the next selection of the programme. Pressing I returns to the beginning of the current selection.

To clear the on-screen bar and the contents of the programme Press ON SCREEN.

#### To cancel Programme Playback

Press selection keys to select "PRGM", then press ENTER.

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

#### Random Playback



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

#### While stopped

- 1 Press ON SCREEN twice to access the on-screen bar.
- Press selection keys to select "RND", then press ENTER. Playback starts in random order.



To clear the on-screen bar Press ON SCREEN.

To cancel Random Playback Perform steps 1 and 2.

#### NOTE:

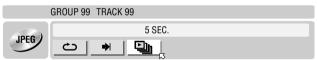
The same track will not be played back more than once during Random Playback.

#### Select The Switching Interval Of The Slide Show



You can control the switching interval of the slide show.

- 1 Press ON SCREEN twice to access the on-screen bar.
- 2 Press selection keys to select " ", then press ENTER. The pop-up window appears under the selected item.



- 3 Press selection keys to select the desired option, then press ENTER.
  - Each time you press the selection keys, the interval changes as follows:

5 SEC. -- 10 SEC. -- 15 SEC. -- 20 SEC. -- 25 SEC. --30 SEC. ↔ (Back to the beginning)

To clear the on-screen bar

Press ON SCREEN.

#### NOTE:

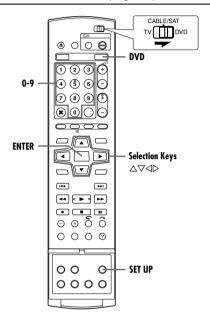
JPEG files are played back as a slide show. It may take more time to display an image with larger file size.

## **Parental Lock**



This function restricts playback of DVD VIDEO discs which contain violent (and other) scenes according to the level set by the user. For example, if a movie which includes violent scenes supports the parental lock feature, such scenes which you do not want to let children view can be cut or replaced by other scenes.

- Turn on the unit.
- Turn on the TV and select the AV mode.
- Slide the TV/CABLE/SAT/DVD switch to DVD.
- Press **DVD** so that the DVD lamp lights up on the unit.



## To Set Parental Lock For The First Time

#### While stopped

- 1 Press SET UP to access the Main Menu screen.
- **2** Press selection keys to select "DVD VIDEO SET UP", then press ∇.

PARENTAL LEVE

3 Press selection keys to select "PARENTAL LOCK", then press  $\nabla$ .



LANGUAGE SET AUDIO OUTPUT PARENTAL LOCK DISC PLAY SET UP

- 4 Press selection keys to select "PARENTAL LEVEL", then press ENTER.
- 5 Press selection keys to select the desired level, then press ENTER.
  - The smaller the value of level is, the more restrictive the Parental Lock level becomes.
  - Select "NONE" to cancel the restriction.

- **6** Press the **number keys** to enter your desired four-digit number, then press ENTER.
- If you made a mistake, enter a correct number again.
- Press selection kevs to select "COUNTRY CODE", then press
- 8 Press selection keys to select your country code, then press ENTER.
  - If you do not need to change your country code, jump to 10.
  - See "Country/Area Code List for Parental Lock" ( pg. 86).
- Press the **number kevs** to enter the same password as in step 6 above, then press ENTER.
- 10 Press SET UP to complete the setting.

Remember your password, or make a note of it.

#### To Change The Settings

You can change the Parental Lock settings later.

Perform steps 1 to 3 of "To Set Parental Lock For The First Time" to access the "PARENTAL LOCK" screen before continuina.

#### To change the level

- 2 Press selection keys to select "PARENTAL LEVEL", then press ENTER.
- 3 Press selection keys to select the desired level, then press FNTFR

#### To change the country code

- 4 Press selection keys to select "COUNTRY CODE", then press
- Press selection keys to select your country code, then press ENTER.
- See "Country/Area Code List for Parental Lock" (pg. 86).
- **6** Press the **number keys** to enter the same password as in step 6 of "To Set Parental Lock For The First Time", then press ENTER.
- **7** Press **SET UP** to complete the setting.

If you forget your password, enter "8888" in step 6.

## To Temporarily Release Parental Lock

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

- Load a disc.
- If the disc is rated higher than the selected level, the confirmation screen appears.
- **2** Press selection keys to select "YES", then press ENTER.
- If you select "NO", you cannot play back that disc.
- **3** Press the **number keys** to enter the same password as in step 6 of "To Set Parental Lock For The First Time", then press ENTER.
- When you enter the correct password, the Parental Lock is released and the unit starts playback.
- If you enter a wrong password, "ENTRY ERROR" appears on the TV screen. Enter the correct password.
- If you have successively entered wrong password three times, "ENTRY ERROR CAN NOT CHANGE PASSWORD" appears on the TV screen. In such a case, press ENTER. The disc will stop. Then play back the disc again, and try the procedure again from step 1.

If you forget your password, enter "8888" in step 3.

# **Basic Recording**











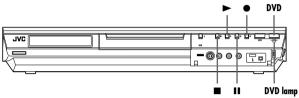


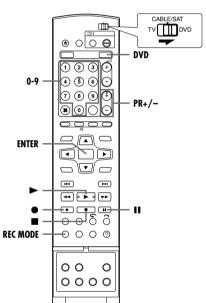


- Turn on the unit.
- Turn on the TV and select the AV mode.
- Slide the TV/CABLE/SAT/DVD switch to DVD.

#### ATTENTION:

It is not possible to record programmes on a DVD-R disc which has already been finalised.





- Load a recordable disc.
- For details, refer to "Placing A Disc" (pg. 8).
- **2** Press **DVD** so that the DVD lamp lights up on the unit.
- 3 Press PR +/- or the number keys to select the channel you wish to record.
- 4 Press REC MODE repeatedly to select the recording mode, then press ENTER.
- Each time you press **REC MODE**, the recording mode changes

 $XP \rightarrow SP \rightarrow LP \rightarrow EP \rightarrow FR (60-360^*, 420, 480) \rightarrow$ 

(Back to the beginning) The value is selectable from 1 to 6 hours in 5 minutes interval by

- pressing ⟨ ▷ repeatedly after selecting "FR60-FR360". To change the value in 30 minutes interval, press and hold ⊲ ▷.
- For details on the recording mode, see the right column.
- 5 Press on the unit to start recording. Or while holding ●, press ▶ on the remote control.
- The DVD recording lamp lights up on the unit.
- 6 Press and II on the remote control simultaneously to pause recording
  - To resume recording, press and ▶ simultaneously.

**7** Press ■ twice to stop recording.

• It takes about 10 seconds to end the writing session when you stop recording.

#### **NOTES:**

- It is recommended to format a DVD-RAM disc before use if you use the disc on this unit for the first time.
- When using a brand-new DVD-RW disc, format the disc either in VR mode or in Video mode. (☞ pg. 78)
- Recordings made on DVD-R/RW disc must be finalised to play back on other DVD players. Perform "Finalise A Disc (DVD Deck Only)" (re pg. 79).
- You can record up to 99 programmes and 99 play lists on each
- Some programmes can only be recorded one time.
- When recording is started, an index of the first part of recording is automatically recorded. (pg. 50) To record satellite programmes, refer to page 49. To delete the index, refer to page 53.
- Recording sometimes may stop or cannot be performed even if there is enough available capacity remaining on the disc.
- It is not possible to record on both DVD and HDD simultaneously.

#### **Recording Mode**

MPEG 2 format is used as recording format. As a guide for picture quality, the "bps" unit is used to represent how much data can be recorded per second. The larger this value is, the better the picture quality becomes but more capacity is required for the recording. Select XP or SP for programmes where guick movement occurs, such as sports programmes, and LP or EP for talk shows, etc. with relatively less movement.

The recording modes for a 4.7 GB disc are set as follows:

Rec	ording mode	Recording amount (approx.)	Maximum recording time (approx.)
	XP	10 Mbps	1 hour
	SP	5 Mbps	2 hours
	LP	2.5 Mbps	4 hours
	EP	1.6 Mbps	6 hours
	60-360 (☞ pg. 37)	The amount varies depending on the	1 – 6 hours
FR	420	selected time.	7 hours
	480		8 hours

• For details on FR mode, refer to "Free Rate Function" (reg pg. 37).

# **Recording Features**









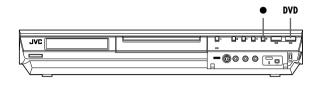


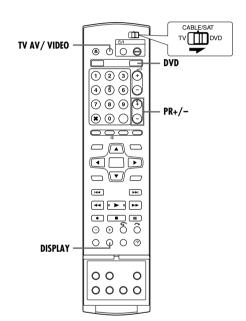






- Turn on the unit.
- Turn on the TV and select the AV mode.
- Slide the TV/CABLE/SAT/DVD switch to DVD.
- Press **DVD** so that the DVD lamp lights up on the unit.





## **Instant Timer Recording (ITR)**

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

- Press on the unit to start recording.
- 2 Press again to engage the ITR mode.
- On the front display panel, "0:30" appears.
- 3 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.
- When the recording capacity becomes full during timer recording or Instant Timer Recording, the unit automatically performs "Relief Recording" (pg. 47).

#### Watch Another Programme While Recording On The Unit

While recording is going on, you can watch another programme on the TV by using the TV's tuner.

It is required that the remote control is set to be able to operate the TV in advance. (pg. 66)

- 1 During recording, press **TV AV/VIDEO** to select TV mode.
- Video mode is disengaged, and the VIDEO lamp on the unit
- The programme received on the TV's tuner is displayed on the TV screen.
- 2 Slide the TV/CABLE/SAT/DVD switch to TV.
- **3** Press **PR** +/- repeatedly to select the desired channel.

#### NOTE:

If a decoder is connected to the unit (pg. 69), you can select a scrambled channel as well as other normal channels.

#### **Elapsed Recording Time And Disc Remaining Time** Indication

During recording, press DISPLAY repeatedly until the desired indication appears on the front display panel.

• Each time you press DISPLAY, the time indication changes as

Elapsed recording time → Disc remaining time → Clock → (Back to the beginning)

# Free Rate Function

To record the entire programme, the unit automatically sets the appropriate recording mode depending on the combination of the total time of the programme to be recorded and either the remaining disc space or the specified recording time (from 60 minutes to 480 minutes).

# To record the entire programme within the actual remaining disc space (DVD deck only)

Select "FR (JUST)" in a recording mode selection procedure.

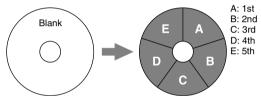
• Note that this function is available only for timer programming recording (reg pg. 45, 47) and dubbing from HDD to DVD (pg. 58).

## ■ To record the entire programme by specifying the desired recording time

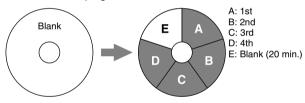
Select "FR60-FR360", "FR420" or "FR480" in a recording mode selection procedure. (pg. 35, 38, 45, 47)

# ■ To record a 25 min. long daily programme five times just on the same DVD disc for example

Perform "SHOWVIEW Timer Programming" ( pg. 45) procedure. Be sure to set the recording mode to "FR125" and set Weekly/ Daily Rec Function to "MON-FRI" in step 8 to fit the total recording time to the whole disc space.



When the same programme is recorded in SP mode instead of in "FR125", the 5th programme cannot be recorded.



## **NOTES:**

• You can programme this unit to timer record, regardless of the disc remaining time. When the disc remaining time is not enough, the unit performs "Relief Recording" (pg. 47). To avoid this, make sure of the disc remaining time before setting timer programming.

(Example) If you programmed to timer record for 60 minutes in SP mode on a 120 minute disc, the disc remaining time would be 30 minutes in XP mode, 60 minutes in SP mode, 120 minutes in LP mode, 180 minutes in EP mode, and 240 minutes in FR480 mode. Timer recording will not complete beyond these remaining

- The maximum recording time of FR (JUST) mode is the same as the recording time of FR480 mode. When timer programming a long programme in FR (JUST) mode on a disc whose remaining time is short, it is recommended to check the disc remaining time in FR480 mode to see if the remaining time is enough for the programme.
- Even if more than one programme are timer programmed in FR (JUST) mode, only the first one is recorded.
- In order to ensure that the recording fits on the disc, this feature may leave a slight non-recorded section at the end of the disc.
- There may be some noise and sound disturbance at the point on the disc where the unit switches the mode.

# **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	0			
A2 Bilingual	III			
Regular Monaural				
NICAM Stereo	NICAMOD			
NICAM Bilingual	NI.I NI.II			
NICAM Monaural	NICAM C			

### NOTES:

- "SUPERIMPOSE" must be set to "AUTO". Otherwise the onscreen displays will not appear. (pg. 72)
- If the quality of stereo sound being received is poor, the broadcast might be received in monaural with better quality.

# Selection Of The Audio Channel To Be Recorded On A Disc

When a programme is recorded on a DVD-RAM or DVD-RW disc in VR mode, all audio channels of the receiving programme are recorded on the disc. When you record a programme on a DVD-R or DVD-RW disc in video mode, select the desired audio channel ("NICAM" or "MONO") to be recorded on the disc. (1887 pg. 71)

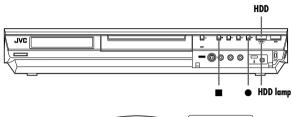
Before playing back a programme recorded in stereo, or a bilingual programme, refer to "Audio Channel Selection" (pg. 28).

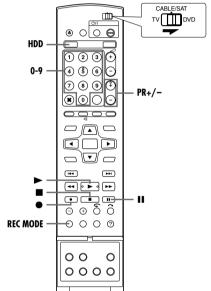
# **Basic Recording**

- Turn on the unit.
- Turn on the TV and select the AV mode.
- Slide the TV/CABLE/SAT/DVD switch to DVD.

# **ATTENTION:**

The HDD on the unit requires approximately 20 seconds to start up after the unit has been turned on, during which no operation can be made.





- Press HDD so that the HDD lamp lights up on the unit.
- **2** Press **PR +/** or the **number keys** to select the channel you wish to record.
- 3 Press REC MODE repeatedly to select the recording mode, then press ENTER.
- Each time you press REC MODE, the recording mode changes

 $XP \rightarrow SP \rightarrow LP \rightarrow EP \rightarrow FR (60-360^*, 420, 480) \rightarrow$ (Back to the beginning)

- The value is selectable from 1 to 6 hours in 5 minutes interval by pressing ⟨ ▷ repeatedly after selecting "FR60-FR360". To change the value in 30 minutes interval, press and hold ⊲ ▷.
- For details on the recording mode, see the right column.
- 4 Press on the unit to start recording. Or while holding ●, press ▶ on the remote control.
- The HDD recording lamp lights up on the unit.
- 5 Press twice to stop recording.
  - Pressing once displays the confirmation message to stop recording. Press ■ again to terminate recording.

# **NOTES:**

- Continuous recording for over 48 hours is not possible.
- It is not possible to record on both DVD and HDD simultaneously.

# Pause recording on HDD deck

It is not possible to pause recording. Pressing | initiates Live Memory Playback.

However, it is still possible to pause recording only when recording the channels of external sources ("L-1", "L-2", "F-1", and "DV"). While holding ●, press II on the remote. To resume recording, while holding ●, press ▶ on the remote.

No operation can be made with the buttons on the unit.

## **Recording Mode**

MPEG 2 format is used as recording format. As a guide for picture quality, the "bps" unit is used to represent how much data can be recorded per second. The larger this value is, the better the picture quality becomes but more capacity is required for the recording. Select XP or SP for programmes where quick movement occurs. such as sports programmes, and LP or EP for talk shows, etc. with relatively less movement.

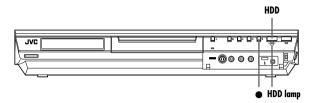
Recording mode	Maximum recording time (approx.)
XP	36 hours
SP	72 hours
LP	143 hours
EP	214 hours
FR480	300 hours

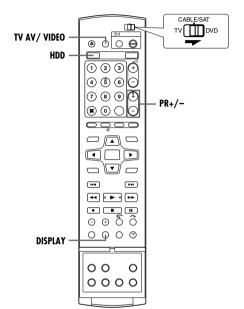
• For details on FR mode, refer to "Free Rate Function" (reg pg. 37).

The maximum recording time stated in the above table are the approximate time under unused condition.

# **Recording Features**

- Turn on the unit.
- Turn on the TV and select the AV mode.
- Slide the TV/CABLE/SAT/DVD switch to DVD.
- Press **HDD** on the remote so that the HDD lamp lights up on





# **Instant Timer Recording (ITR)**

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

- Press on the unit to start recording.
- 2 Press again to engage the ITR mode.
- On the front display panel, "0:30" appears.
- 3 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.
- When the recording capacity becomes full during timer recording or Instant Timer Recording, the unit is automatically shut off.

# Watch Another Programme While Recording On The Unit

While recording is going on, you can watch another programme on the TV by using the TV's tuner.

It is required that the remote control is set to be able to operate the TV in advance. (rs pg. 66)

- 1 During recording, press TV AV/VIDEO to select TV mode.
- Video mode is disengaged, and the VIDEO lamp on the unit
- The programme received on the TV's tuner is displayed on the TV screen.
- 2 Slide the TV/CABLE/SAT/DVD switch to TV.
- 3 Press PR +/- repeatedly to select the desired channel.

# NOTE:

If a decoder is connected to the unit (reg pg. 69), you can select a scrambled channel as well as other normal channels.

# **Elapsed Recording Time And Disc Remaining Time** Indication

During recording, press DISPLAY repeatedly until the desired indication appears on the front display panel.

• Each time you press DISPLAY, the time indication changes as

Elapsed recording time → Disc remaining time → Clock → (Back to the beginning)

# 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.

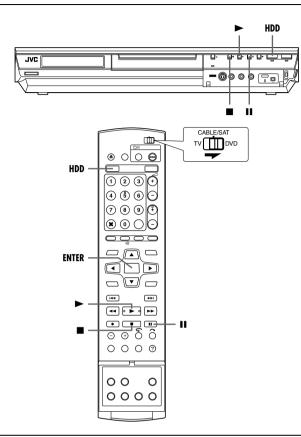
When the channel is changed, the type of broadcast being received will be displayed on the TV screen for a few seconds.

Type of Broadcast Being Received	On-Screen Display
A2 Stereo	$\bigcirc$
A2 Bilingual	
Regular Monaural	
NICAM Stereo	NICAMO
NICAM Bilingual	NI.I NI.II
NICAM Monaural	NICAM

- "SUPERIMPOSE" must be set to "AUTO". Otherwise the onscreen displays will not appear. (1987 pg. 72)
- If the quality of stereo sound being received is poor, the broadcast might be received in monaural with better quality.

# **Basic Playback**

- Turn on the unit.
- Turn on the TV and select the AV mode.
- Slide the TV/CABLE/SAT/DVD switch to DVD.



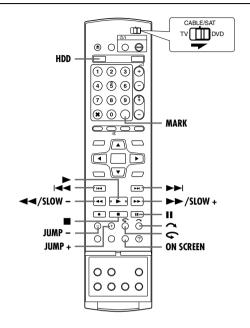
# **ATTENTION:**

- It may take a few seconds to start playback. This is not a malfunction.
- Forward/reverse high-speed search and other operations cannot be performed while playback is stopped.
- Press **HDD** so that the HDD lamp lights up on the unit.
- 2 Press ▶ to start playback.
- The Library Database Navigation also enables you to search and select the desired programmes. ( pg. 51)
- 3 Press II to pause playback.
  - To resume normal playback, press ▶.
- 4 Press to stop playback.

When the Library Database Navigation screen appears, choose a thumbnail image of the desired title on the TV screen, then press **ENTER**. (**©** pg. 51)

# Playback Features

- Turn on the unit.
- Turn on the TV and select the AV mode.
- Slide the TV/CABLE/SAT/DVD switch to DVD.
- Press HDD so that the HDD lamp lights up on the unit.



# Variable Speed Search

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

- Each press of the button increases the search speed for each direction.
- To resume normal playback, press ▶.

4	Reverse -							►► Forward								
Re	verse 4 st	e Sea teps	arch	Reverse Play Reverse Slow Motion 3 steps		Slow Motion 3 steps			Normal Play	Forward Search 5 steps						
-60	-15	-5	-3	-1	-1/2	-1/4	-1/16	1/16	1/4	1/2	1	1.5	3	5	15	60

# NOTE:

You can hear the (normal) audio track only during 1.5x speed search.

# Still Picture/Frame-By-Frame Playback

- Press to pause during playback.
- 2 Press SLOW (◄◄) or SLOW + (▶►) to activate frame-byframe playback.
- Each press of SLOW (◄◄) or SLOW + (▶▶) advances/ reverses the still picture frame by frame.
- To resume normal playback, press ▶.

# Slow Motion

- Press II to pause during playback.
- 2 Press SLOW (◄◄) or SLOW + (▶▶) for 2 or more seconds.
- Each press of **SLOW** (◄◄) or **SLOW** + (▶▶) increases the slow motion speed for each direction.

# Skip Search

During playback, press <a>.</a>

 Each press initiates an approximately 30 second period of fastmotion playback. Normal playback resumes automatically.

# **One Touch Replay**

You can move back the playback position slightly. Press C

- Each press skips back for approximately 7 seconds and resumes playback.
- Pressing while paused skips back for approximately 7 seconds and resumes pause.

# 1.5x Speed Playback

You can play back a title quickly. The sound will also be played back faster than normal speed during 1.5x speed playback. 1.5x speed playback cannot be performed during recording on HDD or DVD.

- Press ◄ to locate the point to start 1.5x speed playback from.
- 2 Press ▶ to resume playback.
- 3 Press ►► once.
- Pressing ON SCREEN displays "X1.5" on the top right corner of the screen.

### NOTE:

When the unit is connected with a digital audio device using an optional optical cable, set "DIGITAL AUDIO OUT" to "PCM ONLY". (**r** pg. 28)

# Jump Search

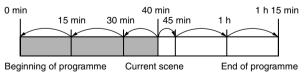
You can locate a scene ahead or behind the current one by jumping scenes according to selected time intervals (pg. 71) during playback (or Live Memory Playback). Press JUMP - or JUMP +.

- To advance forward or back, press JUMP or JUMP + repeatedly within 5 seconds of each press to continue jump.
- Depending on the time from where you want to start jump search, the first press of JUMP - or JUMP + will not necessarily lead to a jump of the selected time interval. The first press will lead to a jump to the nearest quarter points of an hour (15 min/ 30 min/ 45 min/00 min). The subsequent jumps will then be in accordance to the selected time interval.
- When you cannot advance any further (beginning or end of programme reached), the message "UNABLE TO GO BACK ANY MORE" appears on the screen and the on-air screen resumes. In such a case, press ◄◄, ◄◄ or ■.

# Example:

Playback search when jump interval is set to 15 MIN jumps. Taking for instance, you want to start jump search 40 minutes after the beginning of the programme. Pressing JUMP - or JUMP + will result in a jump to the scene at the 30 minutes point or 45 minutes point respectively as illustrated below. At the subsequent press, the scene will jump to the 15 minutes point or 1 hour point respectively, according to the selected time interval, which in this case is "15 MIN".

## Time counter



# Marking Positions To Play Back Again Later

It is possible to mark positions (up to 999 points) where you want to play back once again later, and start playback from a marked position. Marking onto the disc when recording is helpful to locate a start point when you play back the disc later.

# To mark positions:

During playback, press MARK at positions you want to mark.

• "MARK" appears on the TV screen. You can easily locate the marked positions using I◄◄ or ▶►I when you play back the disc.

# To delete the marked positions:

While paused, press ◄ or ► to locate a marked position you want to delete, then press MARK.

 Crossed "MARK" appears on the TV screen, and the marked position is deleted.

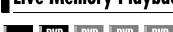




## NOTE:

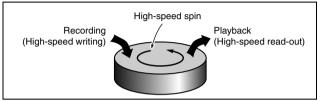
When a monaural programme changes to a stereo programme while recording, a mark signal is automatically recorded.

# Live Memory Playback

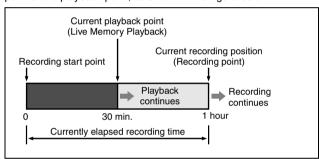


- Turn on the unit.
- Turn on the TV and select the AV mode.
- Slide the TV/CABLE/SAT/DVD switch to DVD.
- Press HDD or DVD to select the HDD or DVD deck.

This unit records pictures onto the hard disc and DVD-RAM disc, instead of video tapes, then plays back the pictures recorded on the disc. This makes it possible to achieve high-speed writing and read-out that has not been possible with conventional VCRs, enabling recording and playback simultaneously.

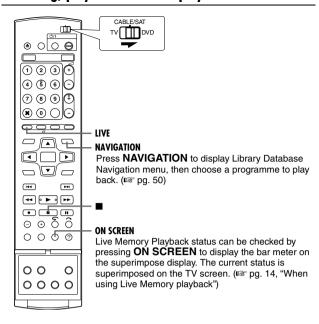


It is called "Live Memory Playback" to start playback of the programme being recorded, with a time-lag between a recording point and a playback point, as shown in the figure below.



Not only can this unit play back a programme previously recorded while recording or timer recording another programme, but the unit also allows you to play back from the beginning of a programme while continuing to record the same programme.

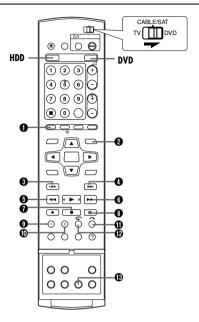
# Recording/playback Status Display



- Live Memory Playback could be performed approximately 30 seconds after recording has started on the DVD-RAM disc. However, for HDD, Live Memory Playback is possible right after recording has started.
- Although high-speed search up to approximately 30 seconds before the current recording point is possible during Live Memory Playback, once the current recording point is reached, the unit resumes normal playback and maintains a delay of approximately 30 seconds so that recording and playback can continue.
- When using Live Memory Playback during timer recording, playback continues even after the end of the recording.
- When using Live Memory Playback during timer recording, playback is automatically stopped just before recording starts, and then recording starts when the time arrives for the next timer programme.
- It is impossible to perform ITR even if you press during Live Memory Playback. (Fig. 39) Press ■ to display the programme being recorded, then perform
- Playback may be paused for a moment during Live Memory Playback, which does not interfere with recording.
- Live Memory Playback cannot be performed while recording the source from DV input. (pg. 60, "DV Dubbing")
- When LIVE CHECK is pressed to display the picture currently being recorded, the picture size may not be correct.
- Press or LIVE to stop Live Memory Playback.
- Live Memory Playback cannot be performed even if the "LIVE MEMORY" in "HDD SET UP" is set to other than "OFF", as temporary recording on HDD stops during recording on DVD.

# **Buttons To Be Used During Live Memory Playback**

- Turn on the unit.
- Turn on the TV and select the AV mode.
- Slide the TV/CABLE/SAT/DVD switch to DVD.
- Press HDD or DVD to select the desired deck for Live Memory Playback.



## 1 LIVE

Returns to on air programme screen. When a confirmation message appears by pressing this button during timer programming or title editing, etc., follow the instruction to return to the previous screen.

# NAVIGATION

Displays Library Database Navigation menu. You can choose a title to play back.

### **છ** ⋈⊲

- Pressing once skips back to the beginning of the chapter being played back.
- Pressing down for 2 or more seconds during playback reverses playback at 5 times the normal speed while pressed. Releasing the button resumes normal playback.

### Available only when paused

 Pressing down for 2 or more seconds reverses playback at 1/ 16 times the normal speed.

- Pressing once skips forward to the beginning of the next chapter being played back.
- Pressing down for 2 or more seconds during playback advances playback at 5 times the normal speed while pressed. Releasing the button resumes normal playback.

# Available only when paused

 Pressing down for 2 or more seconds advances playback at 1/ 16 times the normal speed.

### 0 44

• Each press of the button during playback advances the playback speed in 5 steps in the reverse direction.

# Available only when paused

- Each press of the button reverses the still picture frame by frame.
- Pressing down for 2 or more seconds reverses playback at 1/ 16 times the normal speed. Then, each press of the button reverses slow-motion at 1/16 times, 1/4 times and 1/2 times the normal playback.

### **(1)** ►►

• Each press of the button during playback advances the playback speed in 4 steps in the forward direction.

### Available only when paused

- Each press of the button advances the still picture frame by frame.
- Pressing down for 2 or more seconds advances playback at 1/ 16 times the normal speed. Then, each press of the button advances slow-motion at 1/16 times. 1/4 times and 1/2 times the normal playback.

## 0 =

- Pressing once during Live Memory Playback or RetroActive Recording returns to the screen on air.
- Pressing twice during recording stops recording and returns to the screen on air.

- Pressing once pauses playback (still picture playback).
- Pressing repeatedly advances the still picture frame by frame.

Each press of the button during Live Memory Playback jumps back for the selected time interval and resumes playback. (reg pg. 41, "Jump Search")

# **1** JUMP +

Each press of the button during Live Memory Playback jumps forward for the selected time interval and resumes playback. (see pg. 41, "Jump Search")

It is useful when skipping over unwanted sections.

- Each press skips forward for approximately 30 seconds and resumes playback.
- Pressing repeatedly skips forward continuously as many times as pressed.

# **@** <

It is useful when watching sports programmes, etc.

- Each press skips back for approximately 7 seconds and resumes playback.
- Pressing repeatedly skips back for approximately 7 seconds continuously as many times as pressed.

### LIVE CHECK

You can check, for example, if the programme you are recording has already finished.

- Pressing once displays the picture currently being recorded and the one being played back simultaneously.
- Pressing successively clears the Live Check window and displays only the picture currently being played back.

# Temporary recording for Live Memory (HDD deck only)

This unit automatically records the channel being received, within the specified range of time, to the reserved space on the hard disc. The time range can be set for 30 minutes, 1 hour, and 3 hours. (**r** pg. 71)

### NOTE:

Previous temporary recordings will be overwritten since the unit is always recording the channel being received. Thus, it is not possible to play back TV programmes recorded beyond the specified range of time since they are already overwritten. To avoid this in order to save titles, perform normal recording (pg. 38), timer recording (pg. 45, 47), or RetroActive Recording (**p** pg. 44).

# **About limitation on temporary recording**

The temporary recording for Live Memory is cancelled in the following cases, and will start all over again when it is to resume.

- When the power is turned off
- When the system is powered again after a power failure was occurred
- When normal recording, timer recording, RetroActive Recording, or Automatic Satellite Programme Recording (pg. 49) is performed
- When the "LIVE MEMORY" setting is changed (
   pg. 71)
- When tuner channel setting is performed ( pg. 74)
- When dubbing is performed by pressing **DUBBING** (1887 pg. 58)
- When "DV" is selected by pressing PR +/- (☞ pg. 60)

# RetroActive Recording (HDD deck only)

You can start recording from the previous part of the channel you are currently watching (temporarily recorded on the background). (pg. 44, "Temporary recording for Live Memory (HDD deck

- Press ◄ or ◄ to locate the point to start recording from.
- Each press of ◄◄ increases the reverse search speed.
- **2** Press on the unit to start RetroActive Recording. Or while holding ●, press ▶ on the remote control.
- 3 Press to stop RetroActive Recording.
- The on-air screen resumes.

# **NOTES:**

- You cannot use RetroActive Recording for channels other than the channel you are currently watching.
- Recording speed is automatically set to FR65 mode when RetroActive Recording is started.
- Temporarily recorded data prior to the beginning of RetroActive Recording is erased when RetroActive Recording started.

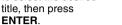
# Simultaneous Recording and Playback

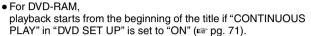
You can play back the previous part of the channel you are recording or other programs available in the Library Database.

## Press NAVIGATION.

The Library Database Navigation screen appears.

- 2 Press selection keys to select "ORIGINAL", then press ENTER.
- Press selection keys to select the desired title, then press





ELECT WITH [ 44+

A CATEGORY

Navigation top screen for HDD deck.

- 4 Press selection keys to select the desired playback method ("BEGINNING", "RESUME" or "REPEAT"), then press ENTER.
  - Playback of the selected title begins automatically.
- 5 Press to stop playback.
- The on-air screen resumes.

### **NOTES:**

- You can use various playback features during Live Memory Playback. (Fig. 40)
- To stop simultaneous playback, press
   ■. The on-air screen resumes. To stop actual recording, press ■ again.

# One Touch Replay

You can move back the playback position slightly during recording or Live Memory Playback. Press .

### ■ DVD-RAM

- Pressing once during recording skips back for approximately 30 seconds and starts Live Memory Playback. While pressing once during Live Memory Playback skips back for approximately 7 seconds and resumes playback.
- Each subsequent press skips back for approximately 7 seconds and resumes playback.
- Pressing while paused skips back for approximately 7 seconds and resumes pause.

### ■ HDD

- Pressing during recording skips back for approximately 7 seconds and starts Live Memory Playback. While pressing during Live Memory Playback skips back for approximately 7 seconds and resumes playback.
- Each press skips back for approximately 7 seconds and resumes playback.
- Pressing while paused skips back for approximately 7 seconds and resumes pause.

# Resuming Playback (HDD deck only)

You can resume playback of a TV broadcast you were recording or watching from the point you have paused.

- Press II to pause a TV broadcast.
- Recording continues when recording.
- 2 Press ▶ to start Live Memory Playback.
  - Playback resumes from the paused position.
- **3** Press to resume the on-air screen.

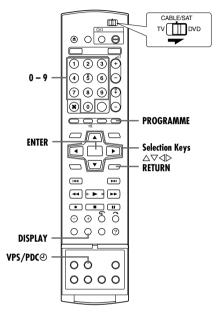
# SHOWVIEW Timer Programming

You can programme this unit to timer record as many as 16 programmes.

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

You can use the remote control to enter the SHOWVIEW number.

- Make sure that the unit's built-in clock is set properly.
- Turn on the unit.
- Turn on the TV and select the AV mode.
- Slide the TV/CABLE/SAT/DVD switch to DVD.



- Load a recordable disc if recording to DVD.
- 2 Press PROGRAMME to access the programme top screen.
- 3 Press selection keys to select "SHOWVIEW", then press ENTER.
- When "PROGRAMME FULL DELETE UNWANTED TIMER" PROGRAMMES" appears on the TV screen, you need to cancel some of the reserved programmes. (reg pg. 48)
- 4 Press the number keys to enter the SHOWVIEW number of a programme you wish to record.

## OR Press selection keys to

select the desired number key on the screen, then press **ENTER**. Repeat to enter all required numbers.



- If you have made a mistake, press selection keys to select "DELETE" or "DELETE ALL", then press ENTER and input the correct number before you press ENTER again.
- 5 Press selection keys to select "RECORD TO", then press ENTER. Press selection keys to select the desired recording deck, then press ENTER.
- Press selection keys to select "CONFIRM", then press ENTER.
  - If the number you entered is invalid, "SHOWVIEW NO. ERROR CONFIRM SHOWVIEW NO. THEN RETRY" appears on the TV screen. Input a valid SHOWVIEW number.
  - If "GUIDE PROGRAMME IS NOT SET SET GUIDE PROGRAMME THEN RETRY" appears on the TV screen, set Guide Programme Numbers manually. (reg pg. 73)

- 7 The SHOWVIEW number you entered and the matching timer recording information are displayed on the TV screen. Check the programme data.
- To cancel this setting, press RETURN.

### **IMPORTANT:**

Make sure the channel position number you wish to record is displayed; if not, see "SHOWVIEW System Setup" (Fig. 73) and set the Guide Programme number correctly.

- 8 Press selection keys to select the desired recording option as required. Press selection keys to select the desired setting, then press ENTER.
  - "INPUT TITLE" (r pg. 52, "Modify Title Name")
- "CATEGORY" (☞ pg. 52, "Modify Category")
   "VPS/PDC" (☞ pg. 46, "VPS/PDC Recording")
- "WEEKLY/DAILY" (pg. 46, "Weekly/Daily Recording")
- "REC MODE" (ISS pg. 35, "Recording Mode")
- **9** Press selection keys to select "OK", then press ENTER to access the Programme Confirmation screen.
- 10 Press selection keys to select "EXIT", then press ENTER to complete timer programming.
  - To programme another timer, press selection keys to select "CONTINUE", then press ENTER.
  - If "PROGRAMME OVERLAPPED" appears on the TV screen, delete or modify the programmes.

- There may be cases that the SHOWVIEW Timer Programming function prolongs the stop time of the programming.
- When two successive programmes are recorded on a DVD-RW disc with the SHOWVIEW Timer Programming function, the beginning of the second one may be left off the recording.
- If the copy limited programme is received during timer recording, the unit enters Record Pause mode. Recording starts again if it is switched to a recordable broadcast during the time you programmed.

# **IMPORTANT:**

If you have moved to a different area or if a broadcasting station's channel number has been changed, the wrong channel number will be displayed on the SHOWVIEW programme screen in step 7. When this happens, set the correct Guide Programme number for that station. (☞ pg. 73, "SHOWVIEW System Setup")

### Satellite Receiver Users

To timer record a satellite broadcast using the SHOWVIEW

- 1 Perform "Satellite Receiver Control Setting" (Fig. 22).
- Perform "SHOWVIEW Timer Programming" (12 pg. 45).
- Leave the satellite receiver's power on.

# Weekly/Daily Recording

You can record programmes with one of the following weekly/daily timer settings.

### For the HDD deck

When you select a mode other than ONCE, the space on the hard disk drive is saved for new recordings by overwriting previous recordings. To prevent loss of a needed recording, backup programmes you wish to save by dubbing them to DVD discs before overwriting previous recordings. Or save the title of weekly/daily programmes to avoid overwriting of a previous week/day. (FF pg. 48)

# **ONCE** (One Time Recording)

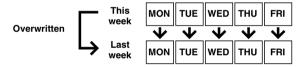
In this mode a programme will not be automatically overwritten.

**WEEKLY (OVERWRITE)** (Weekly Recording/Weekly Overwrite) When the set weekly programme is broadcast, the programme recorded last week is automatically deleted and overwritten by the new programme. Save the title of each programme you wish to save, then the recorded programme is saved and will not be overwritten by the new programme.



# MON-SUN (FOR A WEEK)/ MON-SAT (FOR A WEEK)/

MON-FRI (FOR A WEEK) (Daily Recording/Weekly Overwrite)
When the set weekly programme is broadcast, the programme recorded on the same day last week is automatically deleted and overwritten by the new programme. Save the title of each programme you wish to save, then the recorded programme is saved and will not be overwritten by the new programme.



# MON-SUN (OVERWRITE)/ MON-SAT (OVERWRITE)/ MON-FRI (OVERWRITE) (Daily Recording/Daily Overwrite)

When the set daily programme is broadcast, yesterday's programme is automatically deleted and overwritten by the new programme. Save the title of each programme you wish to save, then the recorded programme is saved and will not be overwritten by the new programme.



## For the DVD deck

**ONCE** (One Time Recording)

**WEEKLY** (Weekly Recording)

MON-SUN/ MON-SAT/ MON-FRI (Daily Recording)

# VPS/PDC Recording

Now available from some TV stations, PDC (Programme Delivery Control) and VPS (Video Programme System) are services 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 video 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.

### **NOTES:**

- Make sure to press VPS/PDC after completing timer programming procedure to activate the VPS/PDC recording function. The VPS/PDC recording indicator lights up on the front display panel when VPS/PDC recording function is activated. However, it will blink rapidly when VPS/PDC is pressed under the following conditions:
  - · Clock is not set.
  - Timer programming has not been set.
  - Disc is not loaded.
  - HDD is full.
- When you use Manual 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] connector.
- When timer recording via VPS/PDC recording is in progress, it is not possible to switch between the HDD and DVD deck, and the following menus cannot be displayed:
  - Main Menu
  - Library Database Navigation Menu
  - Editing Menu
- If the unit is powered on when set to record a timer programme onto HDD/DVD using VPS/PDC, the PDC information will not be used. The programme will be recorded using the start and stop times originally programmed.

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

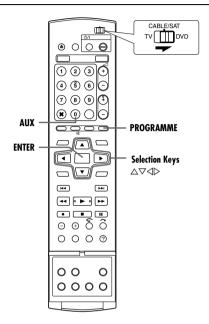
- 1 Hold down **DISPLAY** for about 5 seconds. "VPS/PDC" appears and blinks on the front display panel. If a VPS/PDC signal is detected from the station, "VPS/PDC" will stop blinking. If no VPS/PDC signal is detected from the station, "VPS/PDC" will blink at a slower rate.
- 2 Press **DISPLAY** again to return to normal display.

# |Manual Timer Programming

You can programme this unit to timer record as many as 16 programmes.

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.

- Make sure that the unit's built-in clock is set properly.
- Turn on the unit.
- Turn on the TV and select the AV mode.
- Slide the TV/CABLE/SAT/DVD switch to DVD.



- Load a recordable disc if recording to DVD.
- **2** Press **PROGRAMME** to access the programme top screen.
- 3 Press selection keys to select "CALENDAR PR.", then press ENTER.
- When "PROGRAMME FULL DELETE UNWANTED TIMER PROGRAMMES" appears on the TV screen, you need to cancel some of the reserved programmes. (Fig. 48)
- 4 Press selection keys to select the desired date, then press
- 5 Press selection keys to select "RECORD TO", then press **ENTER.** Press selection keys to select the desired recording deck, then press ENTER.



6 Press selection keys to select "START", then press **ENTER**. Press

selection keys to set the desired start time, then press

- ullet Each press of  $\triangle \nabla$  increases/decreases the start time in 1 minute interval.
- To increase/decrease the start time in 30 minutes interval, press and hold  $\triangle \nabla$ .
- Press selection keys to select "STOP", then press ENTER. Press selection keys to set the desired stop time, then press
  - ullet Each press of  $\triangle \nabla$  increases/decreases the stop time in 1 minute interval.
- To increase/decrease the stop time in 30 minutes interval, press and hold  $\triangle \nabla$ .

- 8 Press selection keys to select "TV PROG", then press ENTER. Press selection keys to select the desired channel.
- Press selection keys to select "CONFIRM", then press ENTER.
- **10** Set the other recording options as required.
  - Refer to step 8 in "SHOWVIEW Timer Programming" (rs pg. 45).
- 11 Press selection keys to select "OK", then press ENTER to access the Programme Confirmation screen.
- 12 Press selection keys to select "EXIT", then press ENTER to complete timer programming.



- To programme another timer, press selection keys to select "CONTINUE", then press ENTER.
- If "PROGRAMME OVERLAPPED" appears on the TV screen, delete or modify the programmes.

# **NOTES:**

- When two successive programmes are recorded on a DVD-RW disc with Manual Timer Programming function, the beginning of the second one may be left off the recording.
- If the copy limited programme is received during timer recording. the unit enters Record Pause mode. Recording starts again if it is switched to a recordable broadcast during the time you programmed.

# **Satellite Receiver Users**

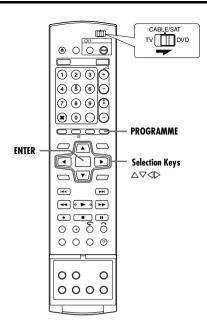
To timer record a satellite broadcast using Manual Timer Programming:

- 1 Perform "Satellite Receiver Control Setting" (r pg. 22).
- Perform "Manual Timer Programming" (🖙 pg. 47). In step 8, press AUX to change "TV PROG" to "SAT". Then press selection keys to enter the channel position for the satellite broadcast.
- 3 Leave the satellite receiver's power on.

### **Relief Recording**

When a programme that is set for the DVD deck cannot be recorded properly, the programme is recorded to the HDD deck instead in XP mode.

- If the remaining capacity of the hard disc is not sufficient, the programme is recorded to the DVD deck until the remaining capacity of the DVD disc lasts.
- If "JUST" is selected for the recording mode, the current recording mode for the DVD deck is applied.



# **Check Programmes**

# To check the whole list of programmes

- 1 Press PROGRAMME to access the programme top screen.
- 2 Press selection keys to select "PROGRAMME LIST", then press ENTER.
- The details of a selected programme appear on the top of the screen.



• The daily programme of a title is listed as one programme.

## To check the list of programmes by date

- Press **PROGRAMME** to access the programme top screen.
- 2 Press selection keys to select "CALENDAR LIST", then press ENTER.
- 3 Press selection keys to select the desired date, then press ENTER.

# **Cancel And Change Programmes**

 Repeat steps in "Check Programmes" to select a programme before proceeding.

# To cancel the programme

1 Press selection keys to select "CANCEL", then press ENTER.

# To modify the programme settings

- 1 Press selection keys to select "MODIFY", then press ENTER.
- 2 Change the settings of the desired recording options as required.
  - Refer to steps 4 12 in "Manual Timer Programming" (№ pg. 47).

To skip the weekly/daily programmes to the next week/day It is easy to temporarily cancel weekly/daily programmes of a week/day.

- Press selection keys to select "PROGRAMME SKIP", then press ENTER.
- 2 Press selection keys to select "SKIP", then press ENTER.

# To save the titles of weekly/daily programmes (HDD Deck Only)

Use this function to avoid overwriting titles of weekly/daily programmes of a previous week/day.

- 1 Press selection keys to select "TITLE SAVE", then press ENTER.
- **2** Press selection keys to select "SAVE", then press ENTER.

### NOTE

This function is available only when the remaining capacity of the hard disc is sufficient.

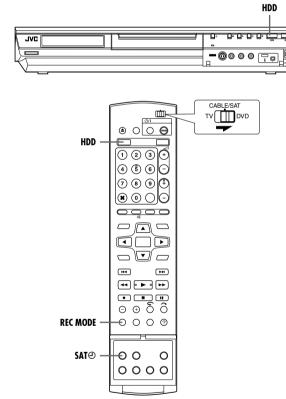


# Automatic Satellite Programme Recording (HDD Deck Only)

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 timer recording cannot be done at the same time.



- Make sure the satellite receiver is connected to the unit's [L-2 IN/DECODER] connector.
- Programme the timer on the satellite receiver.
- Slide the TV/CABLE/SAT/DVD switch to DVD.
- Press **HDD** to choose the recording deck.
- Set "L-2 SELECT" to "SAT VIDEO" or "SAT S-VIDEO". (rs pg. 65)
  - Also refer to "IMPORTANT" on page 68.
- **3** Press **REC MODE** repeatedly to set the recording mode.
- 4 Press and hold SAT() for about 2 seconds to engage the Automatic Satellite Programme Recording mode. "SATO" appears on the front display panel.

- To disengage the Automatic Satellite Programme Recording mode, press SAT().
- If the unit's power is off, it is not possible to engage the Automatic Satellite Programme Recording mode.
- In step 4, if "SATA" blinks quickly on the front display panel 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 "Manual Timer Programming" (pg. 47) 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
- "SAT⊕" blinks on the front display panel 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.
- If there are more than one satellite programmes you wish to record with Automatic Satellite Programme Recording, it is not possible to set different recording modes 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 "SATO" blinks on the front display panel. 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.
- Just Clock (pg. 77) does not work when the Automatic Satellite Programme Recording mode is engaged.

# **Library Database Navigation**

















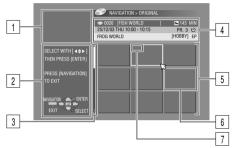


The Library Database Navigation enables you to search and select the desired titles recorded on the HDD deck and the DVD deck very easily.

You can record up to 99 titles on a disc.

Each time a title is recorded, the information of the title is registered for the Library Database Navigation automatically. So, you can confirm the information of the titles recorded with the Library Database Navigation screen. And, you can also select one of the titles recorded using the Library Database Navigation.

The following screen appears as the Library Database Navigation screen when you press **NAVIGATION**. You can move the arrow to select the desired position on the screen by pressing the **selection keys** on the remote control.



- Playback screen
   (Indicates currently received TV programme.)
- 2 Guidance for operations
- 3 Scroll bar

(Appears when there are over nine registered titles (or play lists). The scroll bar only indicates that there are more titles (or play lists) hidden off the current screen display. To show hidden titles (or play lists), press **selection keys** repeatedly.)

- 4 Recording information for the title indicated by the arrow
- 5 Index list

(Thumbnail still of each title)

Thumbnail still is not to be played back.

- 6 Index
  - ■:Indicates no index is registered.
  - ①:Indicates title in standby for timer recording.
  - :Indicates no title is registered.
- 7 Icons

(Indicate the record condition of each title.)

### The Icons and their meanings

	This title is write-protected.				
This title was recorded with timer recording.					
This title is Weekly Recording/Weekly Overwrite.					
D	This title is Daily Recording/Daily Overwrite.				
This title is Daily Recording/Weekly Overwrite.  NEW This title has not been played back.					
			0	This title is copy-protected.	
This title can only be recorded once (copy-once title)					

Using Library Database Navigation system, you can easily modify registered information, edit the title or play list, as well as search for the beginning of each title.

# About registration of information

The following information is automatically registered for each title when ordinary recording or timer recording is performed, then stored in an area specified on the unit.

- index\* (reduced pictures to show programme titles)
- programme title\*
- category\*
- date and time
- channel
- recording mode
- length of recording time

The items marked with an asterisk (\*) can be easily modified and registered again after recording by using Library Database Navigation system.

## The limitations of registration

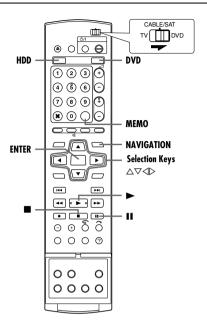
You can register information up to 99 titles for the DVD deck and 200 titles for the HDD deck.

When the amount of information is at the limits of registration, you cannot record new titles any more. In this case, you need to delete old titles to register new ones. (\*\* pg. 52)

- Once a DVD-R/RW (Video mode) disc has been finalised, the displays for original and play list do not appear. Only display for library appears.
- When you move the title recorded on HDD to DVD, the icon will be changed to .
- Sound of received channel may be interrupted while the Library Database Navigation screen is displayed.
- The order of index which are displayed by pressing DUBBING differs from the images displayed by pressing NAVIGATION or EDIT
- You cannot perform timer recording during editing of thumbnail images or play lists by pressing EDIT. Press EDIT to clear the Editing screen before performing timer recording.

# **Scan For Beginning Of Title**

- Turn on the TV and select the AV mode.
- Slide the TV/CABLE/SAT/DVD switch to DVD.
- Press HDD or DVD to choose the corresponding deck.
- Load a DVD disc to scan.



You can scan the beginning of the title easily with the Library Database Navigation.

- Press NAVIGATION. The Library Database Navigation screen appears.
- 2 Press selection keys to select "ORIGINAL", then press ENTER.
- 3 Press selection kevs to select the index (small pictures) of the desired title, then press ENTER.
- When you want the plural titles to be played back continuously. press **MEMO** after selecting the desired title. The numbers of



the playback order appear on the index. You can select up to 8 titles.

- When you want to correct the order, move the arrow to the desired index and press MEMO. The number disappears and the unit re-numbers the other programmes automatically.
- When you want to cancel the order, press **CANCEL**(X).
- 4 Press selection keys to select "BEGINNING", then press ENTER.
  - To resume playback from the point where playback was previously stopped, press selection keys to select "RESUME" then press ENTER.



- To repeat playback of a selected title, press selection keys to select "REPEAT", then press ENTER.
- 5 Press II to pause playback.
- To resume normal playback, press ▶.
- 6 Press to stop playback.

# **Edit Original Information**



- Turn on the TV and select the AV mode.
- Slide the TV/CABLE/SAT/DVD switch to DVD.
- Press HDD or DVD to choose the corresponding deck.
- Load a DVD disc to modify.

### ATTENTION:

- It is not possible to modify discs recorded on DVD units from other manufacturers.
- You cannot perform timer recording during editing the index by pressing EDIT. Press EDIT to clear the editing screen before performing timer recording.

# **Modify Index**

- 1 Press EDIT. The Editing screen appears.
- 2 (DVD deck only) Press selection keys to select "MODIFY" under "ORIGINAL/PLAY LIST", then press ENTER.
- 3 Press selection keys to select "MODIFY under "ORIGINAL" then press ENTER
- 4 Press selection keys to select a title you want to modify, then press ENTER.
- 5 Press selection keys to select "INDEX", then press ENTER.



6 Press ▶ to start playback. Press ◄ or ▶ to search for the picture from the title, then press II.

♣ EDITING > MODIFY INDEX

0:01:03

- The pictures of the title appear on the left window.
- **7** Confirm the arrow is on "REPLACE", then press ENTER to register new index. New index appears on the right window.
  - When you press **ENTER** with the arrow

on "RETURN" you can return to the previous screen.

8 Press EDIT to return to the normal screen.

# **Modify Title Name**

- Perform steps 1 4 of "Modify Index" (☞ pg. 51) before continuing.
- 2 Press selection keys to select "NAME", then press ENTER.
- 3 Press selection keys to select "ALPHABET", "SYMBOL1" or "SYMBOL2".
- 4 Press selection keys to select the desired letter or symbol, then press ENTER. Repeat this process to complete the name.
  - To correct a letter, press selection keys to select "DELETE", then press ENTER.
  - You can enter the letters up to 64.
- **5** Press **selection keys** to select "SAVE", then press **ENTER**.
- **6** Press **EDIT** to return to the normal screen.

# **Modify Category**

- Perform steps 1 4 of "Modify Index" (

  pg. 51) before continuing.
- 2 Press selection keys to select "CATEGORY", then press ENTER.
- Press selection keys to select the desired category, then press ENTER.
- 4 Press EDIT to return to the normal screen.



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# Protect Title (DVD-RAM & DVD-RW (VR mode) only)

You can protect titles to prevent accidental erasure of the important titles.

- Perform steps 1 2 of "Modify Index" (☞ pg. 51) before continuing.
- 2 Press selection keys to select "PROTECT", then press ENTER.
- 3 Press selection keys to select a title you want to protect, then press ENTER.
- 4 Press selection keys to select "PROTECT", then press ENTER. " appears.
- To cancel the protection, repeat 3 4 again. In step 4, select "CANCEL PROTECT", then press ENTER.
- **5** Press **EDIT** to return to the normal screen.

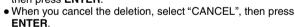
### NOTE:

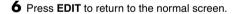
All the titles on a disc will be deleted once the disc is formatted even if they are protected titles. (187 pg. 52)

# **Delete Title**

You cannot record any more with Library Database Navigation once the registered titles on the disc reach 99 titles for the DVD deck and 200 titles for the HDD deck. Deleting unnecessary titles after dubbing or other operations can increase remaining time and available recording capacity. (For DVD-R discs, although it is possible to delete recorded titles, available recording capacity does not increase.) The deleted title is never resumed. Play lists and title information in the unit's library are also deleted.

- 1 Press **EDIT**. The Editing screen appears.
- 2 (DVD deck only) Press selection keys to select "MODIFY" under "ORIGINAL/PLAY LIST", then press ENTER.
- 3 Press selection keys to select "DELETE" under "ORIGINAL", then press ENTER.
- 4 Press selection keys to select a title you want to delete, then press ENTER.
- 5 Press selection keys to select "DELETE", then press ENTER.



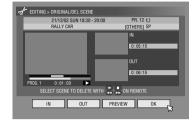




# **Delete Unwanted Part Of The Title** (DVD-RAM & DVD-RW (VR mode) only)

You can delete unwanted part of the title.

- Perform steps 1 2 of "Modify Index" (☞ pg. 51) before continuing.
- 2 Press selection keys to select "DEL SCEN", then press ENTER.
- 3 Press selection keys to select a title whose unwanted part you want to delete, then press ENTER.
- **4** Press ▶ to start playback. Press ◄ or ▶ to find the point where you want the deletion to begin, then press II.
- **5** Confirm the arrow is on "IN", then press ENTER.
- 6 Press ▶ to start playback. Press ◀◀ or ▶► to find the point where you want the deletion to end, then press II.



- Press selection kevs to select "OUT", then press ENTER.
  - Select "PREVIEW", then press ENTER to preview the edited
- 8 Press selection keys to select "OK", then press ENTER.
- If you do not want to delete the scene, press RETURN.

# To modify the points

- 1 Press RETURN.
- Pepeat steps 4 8 as necessary.
- **9** Press selection keys to select "DELETE", then press ENTER. The selected scene is deleted.
  - To cancel the deletion, press selection keys to select "CANCEL", then press ENTER.
- 10 Press EDIT to return to the normal screen.

- There may be a discrepancy of several seconds between the scene you intend to edit, and the scene which is actually edited.
- Available recording capacity may not match the deleted part after deletion.

# Divide Title (HDD deck only)

- 1 Press EDIT. The Editing screen appears.
- 2 Press selection keys to select "DIVIDE". then press ENTER.
- 3 Press selection keys to select a title to divide, then press ENTER.



- 4 Press ▶ to start playback. Press ◄ or ▶ to locate a point to divide, then press II.
- **5** Confirm the arrow is on "DIVIDE", then press **ENTER**.
- The first picture (start) of the newly created title appears in the bottom right window.
- Select "PREVIEW", then press ENTER. The first several seconds of the newly created title is played back, then the playback pauses at the dividing point.
- To undo the division, press selection keys to select "RETRY", then press **ENTER**. Repeat the above procedure to locate another point to divide.
- **6** Press selection keys to select "OK", then press ENTER.
- **7** Press selection keys to select "DIVIDE", then press ENTER.
- Select "CANCEL", then press ENTER to return to the previous screen.
- 8 Press EDIT to return to the normal screen.

### NOTE:

There may be a discrepancy of several seconds between the scene you intend to edit, and the scene which is actually edited.

# **Modify Chapter** (HDD, DVD-RAM & DVD-RW (VR mode) only)

You can create and delete chapter marks in titles.

- Perform steps 1 4 of "Modify Index" (☞ pg. 51) before continuing.
- 2 Press selection keys to select "CHAPTER", then press ENTER.
- 3 Press ▶ to start playback. Press ◄ or ▶▶, then press ▮ at the positions you want to mark.
- 4 Press selection kevs to select "MARK". then press ENTER.
- To undo the marking. press selection keys to select "RETRY" then press ENTER.
- Repeat the above steps 3 and 4 to locate another point to mark.
- EDITING > MODIFY CHAPTER MARK ERASE
- 5 Press I or ►►I to select one chapter you want to delete, press selection kevs to select "ERASE", then press ENTER.
  - To undo the deletion, press selection keys to select "RETRY", then press ENTER.
- **6** Press **EDIT** to return to the normal screen.

There may be a discrepancy of several seconds between the scene you intend to edit, and the scene which is actually edited.

# **Edit Play List Information**













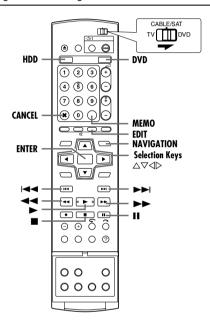




- 3 JPEG
- Turn on the TV and select the AV mode.
- Slide the TV/CABLE/SAT/DVD switch to DVD.
- Press **HDD** or **DVD** to choose the corresponding deck.
- Load a DVD disc to modify.

## ATTENTION:

- It is not possible to modify discs recorded on DVD units from other manufacturers.
- You cannot perform timer recording during editing the index by pressing EDIT. Press EDIT to clear the editing screen before performing timer recording.



## **Play List**

It is a collection of the scenes. A play list can be freely edited and played back without ever changing any original recording data. Using the random access of a disc (which allows video data to be instantly read no matter where it is on the disc), a play list includes information such as the timer counter for the playback start point and end point, indexes for checking the contents of recorded data, category information, and more. Playback according to a play list you have created allows you to enjoy various combinations of video images from a single title.

# **Create Play List**

- 1 Press EDIT. The Editing screen appears.
- 2 (DVD deck only) Press selection keys to select "MODIFY" under "ORIGINAL/PLAY LIST", then press ENTER.
- 3 Press selection keys to select "CREATE", then press ENTER.
- 4 Press selection keys to select a title that includes scenes to be included in a play list, then press ENTER.
- 5 Press ▶ to start playback. Press ◄◄ or ▶► to find the point where you want the created play list to begin, then press ■.
- Confirm the arrow is on "IN/OUT", then press ENTER.
- The edit-in time is displayed on the screen.
- To undo, press selection keys to select "RETRY", then press ENTER.



- 7 Press ▶ to start playback. Press ◄◄ or ▶► to find the point where you want the created play list to end, then press ■.
- **8** Confirm the arrow is on "IN/OUT", then press **ENTER**.
- The edit-out time is displayed on the screen.
- The edit-out point must come after the edit-in point.
- Select "PREVIEW", then press ENTER to preview the play list.
- **9** Press selection keys to select "OK", then press ENTER.
- 10 Press selection keys to select "EXIT", then press ENTER to return to the normal screen.
- 11 Press EDIT to return to the normal screen.

### NOTES:

- There may be a discrepancy of several seconds between the scene you intend to edit, and the scene which is actually edited.
- The title, index and category of the play list can be modified in the same way as "ORIGINAL". (IN pg. 51)
- You can modify the play list that has just been created here by adding, moving, or deleting unwanted parts to create a digest edition, etc.

# **Edit Scenes**

- 1 Press EDIT. The Editing screen appears.
- 2 (DVD deck only) Press selection keys to select "MODIFY" under "ORIGINAL/PLAY LIST", then press ENTER.
- 3 Press selection keys to select "MODIFY" under "PLAY LIST", then press ENTER.
- Press selection keys to select a play list to modify, then press ENTER.
- 5 Press selection keys to select "SCENE", then press ENTER.



- **6** Press **selection keys** to select "MODIFY", then press **ENTER**.
- 7 Press selection keys to select the start or end point of a scene to modify, then press ENTER.
- 8 Perform steps 5 11 in "Create Play List" (☞ pg. 54).

MODIFY

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# Add scenes

- Perform steps 1 − 5 of "Edit Scenes" (

  pg. 54) before continuing.
- 2 Press selection keys to select "SEL. TITLE", then press ENTER.
- 3 Perform steps 4 11 in "Create Play List" (r pg. 54).

# **Move Scenes**

- Perform steps 1 − 5 of "Edit Scenes" (reg pg. 54) before continuing.
- 2 Press selection keys to select "MOVE", then press ENTER.
- 3 Press selection keys to select a scene to move, then press ENTER.
- 4 Press selection keys to select another scene to which the scene is to be moved, then press ENTER.
- To cancel the move, press selection keys to select "RETRY", then press ENTER.
- 5 Perform steps 9 11 in "Create Play List" (r pg. 54).

# **Delete Scenes**

- Perform steps 1 − 5 of "Edit Scenes" (ISF pg. 54) before continuing.
- **2** Press **selection keys** to select "DELETE", then press **ENTER**.
- 3 Press selection keys to select a scene to delete, then press ENTER.
- 4 Perform steps 9 11 in "Create Play List" (r pg. 54).

# **Play Back Play List**

- Press NAVIGATION. The Library Database Navigation screen appears.
- 2 Press selection keys to select "PLAY LIST", then press ENTER.
- 3 Press selection keys to select the index (small pictures) of the desired play list, then press ENTER.
  - When you want the plural play lists to be played back continuously, press MEMO after selecting the desired play lists. The numbers of the



playback order appear on the index. You can select up to 8 play lists.

- When you want to correct the order, move the arrow to the desired index and press MEMO. The number disappears and the unit re-numbers the other play lists automatically.
- When you want to cancel the order, press CANCEL(X).
- 4 Press selection keys to select "BEGINNING", then press ENTER. The playback starts.
  - Upon completing play list playback, the normal screen will resume.
  - The normal screen will also resume when 

    is pressed to stop play list playback.

# **Delete Play List**

- 1 Press EDIT. The Editing screen appears.
- 2 (DVD deck only) Press selection keys to select "MODIFY" under "ORIGINAL/PLAY LIST", then press ENTER.
- **3** Press selection keys to select "DELETE" under "PLAY LIST", then press ENTER.
- 4 Press selection keys to select one play list you want to delete, then press ENTER.
- then press ENTER.

  5 Press selection keys to select "DELETE",
- then press ENTER.

   When you cancel the deletion, select "CANCEL", then press ENTER.
- **6** Press **EDIT** to return to the normal screen.

# NOTE:

Even if a play list is deleted, the titles recorded and the library information are not affected at all.

# **Modify Index**

- Thereform steps 1 4 of "Edit Scenes" (ISS pg. 54) before continuing.
- Perform steps 5 8 of "Modify Index" (☞ pg. 51).

# **Modify Play List Name**

- ☐ Perform steps 1 4 of "Edit Scenes" (🖙 pg. 54) before continuing.
- Perform steps 2 6 of "Modify Title Name" (repg. 52).

# **Modify Category**

- Perform steps 1 4 of "Edit Scenes" (☞ pg. 54) before continuing.
- 2 Perform steps 2 4 of "Modify Category" (☞ pg. 52).

# **Edit Library Information**











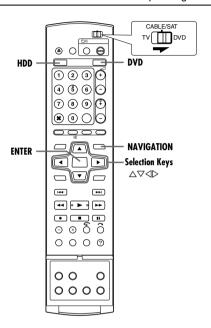






Title information can be registered in the unit's memory for up to 600 DVD discs, 2,000 titles. It is helpful when finding a desired title (or play list) by sorting according to the sort options registered during (or after) recording.

- Turn on the TV and select the AV mode.
- Slide the TV/CABLE/SAT/DVD switch to DVD.
- Press HDD or DVD to choose the corresponding deck.



# **Scan For Title From Library**

- Press NAVIGATION. The Library Database Navigation screen appears.
- 2 Press selection keys to select the appropriate sort button to sort the information, then press ENTER. "DATE":

Sort by date

- "DISC No.":
  - Sort by disc number
- "CATEGORY":
- Sort by category
- "NAME":
- Sort by name
- "DATE" and "DISC No." are available for the DVD deck only.
- 3 Press selection keys to select the desired title, then press ENTER.
  - Playback begins automatically after the selected title is located.

### NOTE

If a disc registered in the library is recorded or modified on DVD units from other manufacturers, it may become impossible to operate properly.

# **Register Disc**

When a disc that is not registered in the library is loaded, a message appears confirming if the disc should be registered. If registering, perform the following procedure.

- 1 Press selection keys to select "REGISTER", then press ENTER to confirm the registration.
- 2 Press NAVIGATION to return to the normal screen.

- It is not possible to register discs formatted on devices other than JVC's DVD recorders.
- It is not possible to register discs recorded on devices other than JVC's DVD recorders.
- It is not possible to register discs when "SAVE AS LIBRARY" is set to "OFF". (1837 pg. 71)



# Playback With MP3/WMA/JPEG **Navigation**













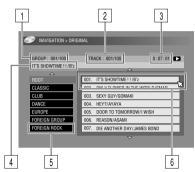




This unit can play back discs that MP3/WMA sound files and JPEG image files taken with digital still cameras or other devices are recorded.

The MP3/WMA/JPEG Navigation enables you to search and select the desired files recorded on CD-R/RW or CD-ROM discs very easilv.

- Turn on the TV and select the AV mode.
- Slide the TV/CABLE/SAT/DVD switch to DVD.
- Press DVD to select the DVD deck.



- 1 Selected group number/total number of groups on the disc
- Selected file number/total number of files in the group that contains the selected file
- Elapsed time (MP3 only)
- Name of the selected file
- Group name
- Selected file

# **NOTES:**

- If there are more than 100 files, the rest of the files are not displayed. In this case, press ON SCREEN to display them on the TV screen.
- If both MP3 files and WMA files are recorded on the same disc, WMA files cannot be played back as they are not displayed on the navigation screen.

# **Locating The Desired Group And Tracks**

- Load a disc.
- 2 Press NAVIGATION.
- 3 Press selection keys to select "ORIGINAL", then press ENTER.
- 4 Press selection keys to select the desired group, then press ENTER.
- · A list of files in the selected group appears.
- 5 Press selection keys to select the desired item, then press **ENTER**. The unit starts playback from the selected item.
- The unit stops when all items in the selected group are played back.

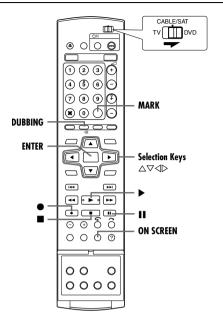




- If you press SELECT(▶) instead of ENTER in step 4, the unit starts playback from the first file of the group.
- JPEG files are played back as a slide show at the set intervals. (pg pg. 33)
- If a file name includes any 2 byte character, the unit may not show the file name correctly.
- The order of the groups and items shown in steps 4 and 5 may differ from the order shown on your PC.

# **Dubbing**

- Turn on the unit.
- Turn on the TV and select the AV mode.
- Slide the TV/CABLE/SAT/DVD switch to DVD.



### **NOTES:**

- It is not possible to dub copy-protected contents. An error message will appear on the TV screen.
- It is not possible to dub simultaneously when timer programming is set. Select either dubbing or timer programming.
- The order of the index which is displayed by pressing DUBBING differs from the images displayed by pressing NAVIGATION or EDIT.

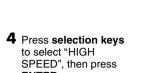
# High Speed Dubbing (From HDD To DVD)

It is possible to dub the original recordings and/or play lists on the HDD deck to DVD discs. The dubbing is performed in high speed, keeping the original transfer rate.

### NOTES:

- After accessing the Dubbing Menu screen, it is not possible to take out a disc.
- It is not possible to dub copy-once titles in Video mode.
- When dubbing a copy-once title, the data will be moved from HDD to DVD upon completing dubbing.
- When you cancel dubbing a copy-once title during dubbing, the original recording on the HDD deck remains and the title copied to a DVD disc is deleted.
- It is not possible to dub play lists which contain copy-once titles.
- It is not possible to dub the following programmes to DVD-R/RW disc (Video mode):
  - which contains more than one audio language.
  - which is on the play list.
  - which is edited (also RetroActive Recording).
  - which is recorded in LP mode or FP155-FP240 mode.
- Recording may not be performed in the highest speed depending on the characteristics of the disc used.
- Load a recordable disc.
- 2 Press DUBBING to access the Dubbing Menu screen.

3 Press selection keys to select "HDD→DVD", then press ENTER.



**5** Press selection keys to select indexes (small pictures) of desired original recordings and/or play lists, then press MARK. After selecting all indexes



7

HDD -> DV

DV -> DVD

you want to dub, press ENTER.

- You can select up to 8 original recordings and/or play lists.
- The recordable time of the disc is displayed on the bar meter.
   For details, refer to "About Disc Remaining Display" (ISS pg. 59).
- 6 Press selection keys to select "EXECUTE" or "AUTO PWR OFF", then press ENTER to start dubbing.
- If "AUTO PWR OFF" is selected, the unit will turned off after dubbing is completed.

### NOTES

- Play lists are dubbed as programmes.
- In Video mode, if the selected play list includes the scenes recorded in the different transfer rate, the dubbing is performed in the highest transfer rate of the scenes in the selected play list.
- During dubbing, it is not possible to play back on HDD or DVD, or to set timer programming.

# Just Dubbing (From HDD To DVD)

By using Just Dubbing function, when dubbing all selected original recordings and/or play lists, the unit automatically sets the appropriate recording mode depending on the combination of the total time of the selected recordings and/or play lists to be dubbed and the available disc space.

- Load a recordable disc.
- **2** Press **DUBBING** to access the Dubbing Menu screen.
- 3 Press selection keys to select "HDD→DVD", then press FNTFR
- 4 Press selection keys to select "JUST", then press ENTER.
- 5 Perform steps 5 6 of "High Speed Dubbing (From HDD To DVD)".

- Play lists are dubbed as programmes.
- In Video mode, if the selected play list includes the scenes recorded in the different transfer rate, the dubbing is performed in the highest transfer rate of the scenes in the selected play list. However, the lower transfer rate cannot be dubbed in the higher transfer rate.
- The recordable time of the disc is displayed on the bar meter. For details, refer to "About Disc Remaining Display" (ISS pg. 59).
- During dubbing, it is not possible to play back on HDD or DVD, or to set timer programming.

# Manual Dubbing (From HDD To DVD)

It is possible to perform dubbing in the desired transfer rate.

- Load a recordable disc.
- 2 Press DUBBING to access the Dubbing Menu screen.
- **3** Press selection keys to select "HDD→DVD", then press ENTER.
- 4 Press selection keys to select "MANUAL", then press ENTER.
- 5 Perform step 5 of "High Speed Dubbing (From HDD To DVD)" (pg. 58). The Manual Dubbing screen appears.
- **6** Press selection keys to select "REC MODE", then press ENTER. Press selection keys to select the desired option, then press ENTER.
- **7** Press selection keys to select "CONFIRM", then press
- Press selection keys to select "EXECUTE" or "AUTO PWR OFF", then press ENTER to start dubbing.
- If "AUTO PWR OFF" is selected, the unit will turned off after dubbing is completed.

### **NOTES:**

- In Video mode, if the selected play list includes the scenes recorded in the different transfer rate, the dubbing is performed in the highest transfer rate of the scenes in the selected play list. However, the lower transfer rate cannot be dubbed in the higher transfer rate.
- The recordable time of the disc is displayed on the bar meter. For details, refer to "About Disc Remaining Display" (pg. 59).
- During dubbing, it is not possible to play back on HDD or DVD, or to set timer programming.

# Original Dubbing (From DVD To HDD)

It is possible to dub the original recordings on DVD discs to the HDD deck.

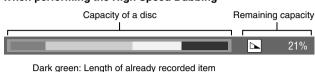
- Load a disc you want to dub.
- 2 Press DUBBING to access the Dubbing Menu screen.
- 3 Press selection keys to select "DVD→HDD", then press
- 4 Press selection kevs to select indexes (small pictures) of desired original recordings and/or play lists, then press MARK. After selecting all indexes you want to dub, press **ENTER**.
  - You can select up to 8 original recordings and/or play lists.
- **5** Press **selection keys** to select "EXECUTE" or "AUTO PWR OFF", then press ENTER to start dubbing.
- If "AUTO PWR OFF" is selected, the unit will turned off after dubbing is completed.

- It is not possible to dub play lists on DVD discs.
- It is not possible to dub pre-recorded DVD VIDEO discs.
- It is not possible to dub Video CDs/SVCDs or Audio CDs.

### About Disc Remaining Display

When dubbing from HDD to DVD, the unit displays the time information for dubbing by bar meter. By comparing the disc remaining time and the necessary time for dubbing of the selected items, it is possible to check if the dubbing can be performed completely or not.

# When performing the High Speed Dubbing



Light green: Length of selected item

Yellow: Length of the item now being selected by arrow

Red: Excess over the capacity

## When performing the Just Dubbing



- The unit displays the status on the assumption that the selected items are dubbed in the lowest transfer rate.
- The total time of a loaded disc is displayed on the right of the bar

# When performing the Manual Dubbing



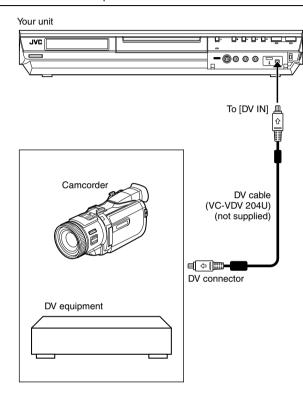
- The unit displays the status on the assumption that the selected items are dubbed in the lowest transfer rate.
- The available highest transfer rate is displayed on the right of the bar meter.

# DV Dubbing

You can dub programmes from a camcorder or DV equipment connected to the unit with a DV cable. The unit's remote control allows you the limited control of the connected camcorder or DV equipment functions during dubbing.

### **NOTES:**

- Use the DV cable VC-VDV 204U for connection.
- When you connect a PC to the [DV IN] connector, we do not assure the normal operation of this unit.



The following on-screen display for DV dubbing appears when **ON SCREEN** is pressed while the channel has been set to "DV".



# 1 Remote control switch

To switch between the devices operable by the remote control unit. The unit is operable when the remote icon (( ( ))) displayed faces to the left, while the DV device is operable when the remote icon is facing to the right.

# 2 Auto capture button

Select to start or pause the dubbing. If **ENTER** is pressed when the DV device is in the pause condition, preroll editing\* where it is possible to dub with a start time that is highly accurate will be activated. When the DV device cannot be operated from the unit (such as in camera mode), proceed with normal recording (FF pg. 35, 38).

\* Preroll editing refers to the playback after the DV tape is slightly rewind.

(For DV devices that do not support the -1x speed, the rewinding time may be longer.)

### 3 Sound monitor switch

For selecting the desired sound format for dubbing.

- 1 Connect a camcorder or DV equipment to the [DV IN] connector on the unit's front panel.
- 2 Press HDD so that the HDD lamp lights up on the unit.
- 3 Press PR +/- to set the channel to "DV".
- 4 Press ON SCREEN.
- The on-screen display for DV dubbing appears.
- **6** Press **REC MODE** repeatedly to set the recording mode.
- **7** Locate the point from where you want to start dubbing, then stop or pause playback by pressing the following buttons on the remote control: ▶, ▶▶▶, ◄◄, ■. || .
  - To play back in slow speed (1/10 of the normal speed), press II
    to pause playback, then press ◄◄ or ▶►.
- To play back frame-by-frame, press 
   ■ to pause playback, then
   press repeatedly. Each press of advances a frame.
- To change the playback direction, press ◄◄ or ►►.
- 8 Press selection keys to select (0/05-1), then press ENTER repeatedly until the desired sound track appears on the TV screen.

# SOUND 1:

Select this to record the original stereo sound played back on the connected DV equipment.

### SOUND 2:

Select this to record the dubbed stereo sound played back on the connected DV equipment.

## MIX:

Select this to record the sound of both "SOUND 1" and "SOUND 2".

 Note that this selection is not available when the source programme is recorded in 16BIT (48 kHz) mode.

- **9** Press **selection keys** to select <u></u> m → , then press ENTER. The dubbing starts.
  - Playback on the external DV equipment and recording on the unit should start simultaneously.
- then press ENTER. Both the unit and the external DV equipment pause dubbing. Pressing II on the unit also works the same way.
- 10 Press selection keys to select 
  □ □ □ □ , then press **ENTER**. Then press ■. The DV equipment stops.
- Press selection keys to select 
  □□ □/□ , then press ENTER.
- 12 Press twice on the remote control to stop dubbing. Both the unit and the external DV equipment stop dubbing.

## **NOTES:**

- Dubbing copyright guarded programmes is not possible.
- Original DV information such as the recording date and time are not recorded.
- The superimposed indication during the operation or dubbing is not recorded.
- If the dubbing is paused while the channel is set to "DV", you cannot switch channels.

# When you dub from DV equipment other than a camcorder

- 1 Perform step 1 to 4.
- Locate the point from where you want to start dubbing, then stop on the DV equipment.
- If you pause the DV equipment in this step, a few second's still picture will be recorded at the beginning of the recorded programme.
- Set the input mode to "DV INPUT" on the DV equipment.
- If you select an input mode other than "DV INPUT", unwanted pictures may be recorded at the beginning of the recorded programme.
- 4 Perform step 9 to 12.

# To skip unwanted part of the source picture

Press ENTER to stop both equipment, then press selection keys to select ( To select ).

Locate the point where you want to restart dubbing by pressing ▶,  $\blacktriangleright \blacktriangleright$ , or  $\blacktriangleleft \blacktriangleleft$ , then press  $\blacksquare$ .

Press selection keys to select , then press ENTER to restart dubbing.

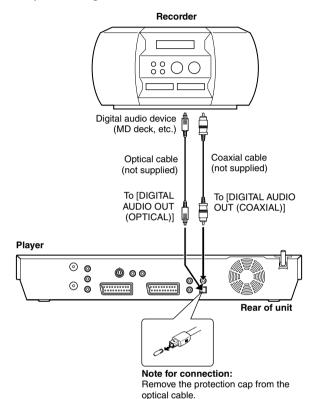
# Digital Audio Dubbing

You can dub selected audio from a DVD or Audio CD disc to a digital audio device.

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

- Turn on the TV and select the AV mode.
- Slide the TV/CABLE/SAT/DVD switch to DVD.

# **Example: Dubbing to an MD**



- Connect the unit and a digital audio device using either an optional optical cable or an optional coaxial cable.
- 2 Place a disc on the unit and load an MD on the connected digital audio device.
- 3 Select the audio to be dubbed.
- Start playback slightly before the actual point from where you wish to start dubbing.
- **5** Press II to pause playback.
- **6** Select the input mode on the connected digital audio device.
- **7** Press ▶ to start playback on the unit.
- **8** Start recording on the digital audio device.
- Stop recording on the digital audio device. Then press to stop playback on the unit.

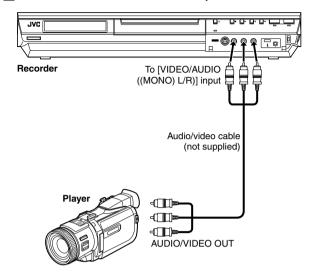
## NOTE:

There may be a discrepancy of several seconds between where you intend editing to start, and where it actually starts.

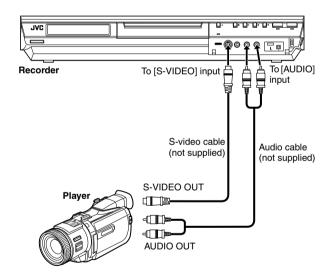
# Edit From A Camcorder

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

# 1 If the camcorder has no S-VIDEO output connector:



# 2 If the camcorder has an S-VIDEO output connector:



### • Slide the TV/CABLE/SAT/DVD switch to DVD.

- Make connections.
- 1 If the camcorder has no S-VIDEO output connector:
  - connect the camcorder's AUDIO/VIDEO OUT connectors to the unit's [VIDEO/AUDIO ((MONO) L/R)] input connectors on the front panel.
- When using a monaural camcorder, connect its AUDIO OUT connector to the [AUDIO-L] input connector on your unit.
- 2 If the camcorder has an S-VIDEO output connector:
  - connect the camcorder's AUDIO OUT and S-VIDEO OUT connectors to the unit's [AUDIO] and [S-VIDEO] input connectors on the front panel.
- 2 Press HDD or DVD to select the recording deck.
- 3 Press PR +/- to select "F-1".
- 4 Press REC MODE repeatedly to set the recording mode.
- 5 Start playback on the camcorder slightly before the actual point from where you wish to start dubbing.
- 6 Press on the unit to start recording. Or while holding ●, press ► on the remote control. The dubbing starts.
- **7** Press on the unit, then stop playback on the camcorder.

- All necessary cables can be obtained from your dealer.
- Refer to the camcorder's instruction manual for operating procedure.
- The quality of dubbed picture becomes poorer than that of the original.

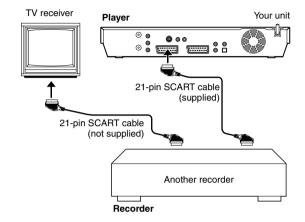
# **Edit To Or From Another Recorder**

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

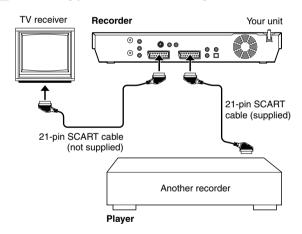
### **NOTES:**

- When using another recorder as the recording deck, refer to its instruction manual.
- It is not possible to dub copy-protected contents. An error message will appear on the TV screen.

# 1 When using your unit as the source player



# 2 When using your unit as the recording deck



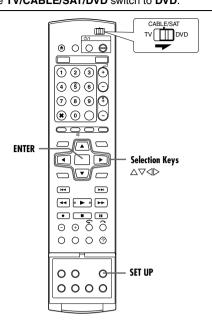
### Slide the TV/CABLE/SAT/DVD switch to DVD.

- Connect another recorder'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.
- 2 When using your unit as the recording deck:
  - connect its [L-2 IN/DECODER] connector to the source
  - If another recorder is compatible with the Y/C signal:
    - when using your unit as the source player, set "L-1 OUTPUT" to "SCART S-VIDEO". (128 pg. 64)
    - when using your unit as the recording deck, set "L-2 SELECT" to "S-VIDEO". (128 pg. 65)
- 2 When using this unit as the recording deck, press HDD or DVD to select the recording deck.
- 3 When using this unit as the recording deck, press PR +/- to select "L-2"
  - Set "L-2 SELECT" to "VIDEO" or "S-VIDEO". (☞ pg. 65)
- 4 When using this unit as the recording deck, press REC MODE repeatedly to set the recording mode.
- **5** Engage the Play mode of the source player.
- **6** Engage the Record mode of the recording deck.
- Stop recording on the recording deck, then stop playback on the source player.

- All necessary cables can be obtained from your dealer.
- For Y/C signal input/output, be sure to use a 21-pin SCART cable that is compatible with the Y/C signal.
- When you use this unit as the source player for editing, be sure to set "SUPERIMPOSE" to "OFF" before starting. ( pg. 72) If you are using another recorder with S-Video and Audio output connectors, connect its S-Video and Audio output connectors to this unit's [S-VIDEO] and [AUDIO] input connectors on the front panel. Then, set the unit's input mode to "F-1" in step 3, and set "F-1 INPUT" to "S-VIDEO". (1987 pg. 65)

# Output/Input Set

Turn on the TV and select the AV mode.
Slide the TV/CABLE/SAT/DVD switch to DVD.

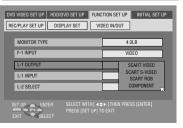


# L-1 Output And L-1 Input Setting

The [L-1 IN/OUT] connector accepts and delivers either a composite signal (regular video signal) or a Y/C signal (a signal in which the luminance and chrominance signals are separated). Set "L-1 OUTPUT" and "L-1 INPUT" to the appropriate mode depending on the type of appliance connected to the unit's [L-1 IN/OUT] connector.

- 1 Press SET UP to access the Main Menu screen.
- 2 Press selection keys to select "FUNCTION SET UP", then press ♥.
- 3 Press selection keys to select "VIDEO IN/ OUT", then press ▽.
- 4 Press selection keys to select "L-1 OUTPUT" or "L-1 INPUT", then press ENTER.
- 5 Press selection keys to select the appropriate setting, then press ENTER.
- 6 Press SET UP to complete the setting.





- \* The **boldface** settings below indicate the settings at your purchase.
- L-1 OUTPUT SCART VIDEO / SCART S-VIDEO / SCART RGB / COMPONENT

### SCART VIDEO:

If a connected appliance's input is compatible only with regular video signals, set to "SCART VIDEO".

## SCART S-VIDEO:

If a connected appliance's input is compatible with Y/C signals, set to "SCART S-VIDEO". You can obtain high-quality picture. (For connection, be sure to use a 21-pin SCART cable that is compatible with the Y/C signal.)

## SCART RGB:

If a connected appliance's input is compatible with RGB signals, set to "SCART RGB". You can obtain a high-quality RGB picture.

# **COMPONENT:**

If a connected appliance's input is compatible with Y/P<sub>B</sub>/P<sub>R</sub> signals, set to "COMPONENT". You can obtain a high-quality Y/P<sub>B</sub>/P<sub>R</sub> picture. Switch the TV to the input that you can watch component video pictures.

## ■ L-1 INPUT — VIDEO / S-VIDEO

### VIDEO:

If a connected appliance's output is compatible only with regular video signals, set to "VIDEO".

### S-VIDE0:

If a connected appliance's output is compatible with Y/C signals, set to "S-VIDEO". You can obtain a high-quality picture. (For connection, be sure to use a 21-pin SCART cable that is compatible with the Y/C signal.)

- If "L-1 OUTPUT" is set to "SCART S-VIDEO" or "SCART RGB", it is not possible to set "L-1 INPUT" to "S-VIDEO".
- If "L-2 SELECT" is set to "SAT S-VIDEO" or "DECODER", it is not possible to set "L-1 INPUT" to "S-VIDEO".
- If "L-2 SELECT" is set to "DECODER", it is only possible to set "L-1 OUTPUT" to "SCART VIDEO".
- Component video signals are not output from the [L-1 IN/OUT] connector.
- When Progressive scan mode is engaged, it is not possible to select the setting of "L-1 OUTPUT". (🖙 pg. 64)

# L-2 Select Setting

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

- Perform steps 1 and 2 of "L-1 Output And L-1 Input Setting" (rs pg. 64).
- 2 Press selection keys to select "L-2 SELECT", then press ENTER.
- 3 Press selection keys to select the appropriate setting. then press **ENTER**.
- 4 Press SET UP to complete the setting.



\* The boldface settings below indicate the settings at your purchase.

# L-2 SELECT — VIDEO / S-VIDEO / SAT VIDEO / SAT S-VIDEO / **DECODER**

Select "VIDEO" or "S-VIDEO" 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.

### VIDEO:

If a connected appliance's output is compatible only with regular video signals, set to "VIDEO".

### S-VIDEO:

If a connected appliance's output is compatible with Y/C signals, set to "S-VIDEO". You can obtain high-quality picture. (For connection, be sure to use a 21-pin SCART cable that is compatible with the Y/C signal.)

Select "SAT VIDEO" or "SAT S-VIDEO" to view a satellite programme with the TV set while the unit is turned off. (128 pg. 68) SAT VIDEO:

If a connected satellite receiver's output is compatible only with regular video signals, set to "SAT VIDEO".

## SAT S-VIDEO:

If a connected satellite receiver's output is compatible with Y/C signals, set to "SAT S-VIDEO". You can obtain a high-quality S-VHS picture. (For connection, be sure to use a 21-pin SCART cable that is compatible with the Y/C signal.)

### DECODER:

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

- 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 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 "VIDEO".
- When "L-2 SELECT" is set to "SAT VIDEO" and "SAT S-VIDEO". "SAT" appears on the TV screen or front display panel instead of "L-2".
- If "L-1 OUTPUT" is set to "SCART S-VIDEO", it is not possible to set "L-2 SELECT" to "DECODER" or "SAT VIDEO".
- If "L-1 OUTPUT" is set to "SCART RGB", it is not possible to set "L-2 SELECT" to "DECODER" or "SAT S-VIDEO".
- If "L-1 OUTPUT" is set to "COMPONENT" and "L-2 SELECT" to "SAT VIDEO", "SAT S-VIDEO" or "DECODER", be sure to connect the [L-1 IN/OUT] connector with a TV.
- If "L-2 SELECT" is set to "SAT S-VIDEO", be sure to set "L-1 OUTPUT" to "SCART S-VIDEO".

# F-1 Input Setting

Set "F-1 INPUT" to the appropriate mode depending on the connector (VIDEO or S-VIDEO) being used on the front panel.

- Perform steps 1 and 2 of "L-1 Output And L-1 Input Setting" (rs pg. 64).
- 2 Press selection keys to select "F-1 INPUT", then press ENTER.
- Press selection keys to select the appropriate setting. then press ENTER.
- 4 Press SET UP to complete the setting.



\* The **boldface** settings below indicate the settings at your purchase.

# **■ F-1 INPUT** — **VIDEO** / S-VIDEO

# VIDEO:

When connecting an appliance to the [VIDEO] input connector, set to "VIDEO".

### S-VIDEO:

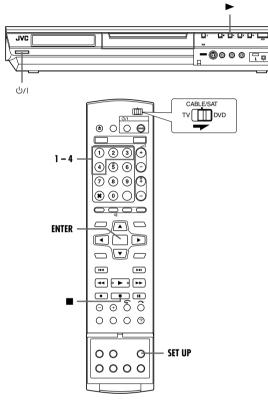
When connecting an appliance to the [S-VIDEO] input connector, set to "S-VIDEO".

# **Remote Control Functions**

# Remote Control 1/2/3/4 Code Switching

The remote control is capable of controlling four JVC video units independently. Each of the units can respond to one of the four codes (1, 2, 3 or 4). The remote control is preset to send code 3 signals because your unit is initially set to respond to code 3 signals. You can easily modify your unit to respond to code 1, 2 or 4 signals.

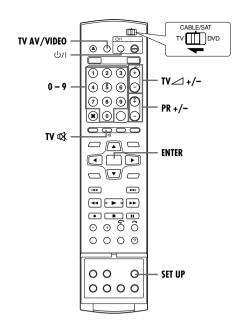
## • Slide the TV/CABLE/SAT/DVD switch to DVD.



- Keep pressing SET UP down during step 1.
- 1 Press the number key "1" for 1, "2" for 2, "3" for 3 or "4" for 4 to change the remote control code, then press ENTER.
- 2 Press  $\circlearrowleft$ /I on the unit to turn off the unit.
- 3 Press ▶ on the unit for over 5 seconds while the unit is turned off. The code currently set appears on the front display panel.
- 4 Press on the remote control to change the unit's code. The code currently set on the remote control blinks on the front display panel for approximately 5 seconds, and is applied to the unit.

## NOTE:

When "POWER SAVE" is set to "ON" (1887 pg. 72), it is not possible 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.

- Turn off the TV using its remote control.
- Slide the TV/CABLE/SAT/DVD switch to TV.

## **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.

- Keep pressing **SET UP** down during step **1**.
- 1 Enter your TV's brand code using the number keys, then press ENTER.
- 2 Press ७/I on the unit's remote control to turn on the TV and try operations (☞ step 3).
  - 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.
- 3 Press the corresponding buttons to operate the TV: ⊕/I, TV AV/ VIDEO, PR +/-, TV △ +/-, TV ﴿ number keys.
- For some brands of TVs, you must press ENTER after having pressed the number keys.

BRAND NAME	CODE
JVC FERGUSON FINLUX FUNAI LG/GOLDSTAR GRUNDIG HITACHI	01, 23, 24, 25 27 30 32 18 19 10 28
MITSUBISHI MIVAR NEC NOKIA PANASONIC PHILIPS RCA SAMSUNG SANYO SHARP SONY THOMSON	28 03 29 20 31 04, 11 02 05 12, 33, 34, 35 13, 16 06 07 26

# Satellite Receiver Multi-Brand Remote Control

Your remote control can operate the basic functions of your satellite receiver set. In addition to JVC satellite receivers, other manufacturer's satellite receivers can also be controlled.

• Slide the TV/CABLE/SAT/DVD switch to CABLE/SAT.

## **IMPORTANT:**

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

- Keep pressing SET UP down during step 1.
- Enter your satellite receiver's brand code using the **number** keys, then press ENTER.
- 2 Press U/I on the unit's remote control to turn on the satellite receiver and try operations (see step 3).
- Once you have set the remote control to operate the satellite receiver, you do not have to repeat this step until you replace your remote control's batteries.
- Some brands of satellite receivers have more than one code. If the satellite receiver does not function with one code, try entering another.
- **3** Press the corresponding buttons to operate the satellite receiver:  $\bigcirc/I$ , PR +/-, number keys.
  - For some brands of satellite receivers, you must press ENTER after having pressed the number keys.
  - The **number keys** may not function with some satellite receivers.

BRAND NAME	CODE
JVC	72, 73
AMSTRAD	60, 61, 62, 63, 92
CANAL +	81
D-BOX	85
ECHOSTAR (VIA DIGITAL)	82
FINLUX	68
FORCE	89
GALAXIS	88
GRUNDIG	64, 65
HIRSCHMANN	64
ITT NOKIA	68
KATHREIN	70, 71
LUXOR	68
MASCOM	93
MASPRO	70
NOKIA	87
PACE	67, 86, 92
PANASONIC	13, 14, 74
PHILIPS	66, 84
RFT	69
SAGEM	83
SALORA	68
SAMSUNG	05, 24
SKYMASTER	69
TPS	83
TRIAX	91
WISI	64

# **Connecting To A Satellite Receiver**

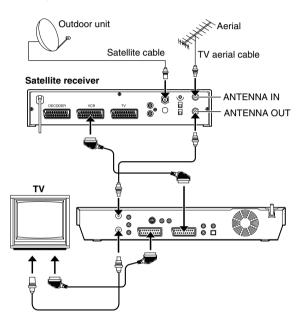
# **Simple Connections**

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.

### **NOTES:**

- Set "L-2 SELECT" to "VIDEO" or "S-VIDEO". (№ pg. 65)
- You can use the Automatic Satellite Programme Recording function (pg pg. 49) with this connection. (HDD deck only)
- To record a programme via the satellite receiver, select L-2 mode by pressing PR +/- so that "L-2" appears on the front display
- For details, refer to the instruction manual of the satellite receiver.



# **IMPORTANT**

When you set "L-2 SELECT" to "SAT VIDEO" or "SAT S-VIDEO" (pg. 65), 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 AV/VIDEO on the remote control to turn off the VIDEO lamp on the unit.

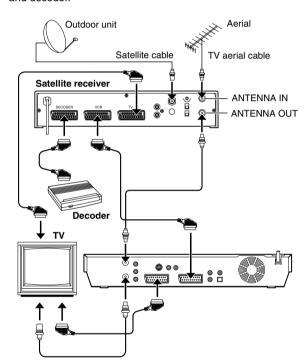
• If you turn on the unit when the satellite receiver's power is off, nothing appears on the TV screen. In this case, turn on the satellite receiver, or set the TV to its TV mode, or press TV AV/ VIDEO on the remote control to set the unit to the AV mode.

# **Perfect Connections (Recommended)**

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

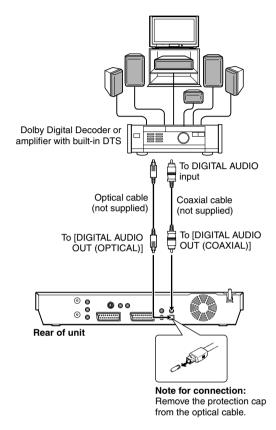
Connect the decoder to the satellite receiver's connector if you have a decoder, [L-1 IN/OUT] connector to TV's connector, and IL-2 IN/DECODER] connector to the satellite receiver's connector. Then connect the satellite receiver and TV.

- Set "L-2 SELECT" to "VIDEO" or "S-VIDEO". (№ pg. 65)
- You can use the Automatic Satellite Programme Recording function (pg. 49) with this connection. (HDD deck only)
- To record a programme via the satellite receiver, select L-2 mode by pressing PR +/- so that "L-2" appears on the front display
- 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 To A Dolby Digital Decoder** Or An Amplifier With Built-in DTS

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



Connect the unit and a Dolby Digital Decoder or an amplifier with built-in DTS using either an optional optical cable or an optional coaxial cable.

# **NOTES:**

- For Dolby Digital sound, set "DIGITAL AUDIO OUT" to "DOLBY DIGITAL/PCM". (Fig. 70)
- For DTS sound, set "DIGITAL AUDIO OUT" to "STREAM/PCM". (rs pg. 70)

# **CAUTIONS:**

- This unit has a dynamic range of more than 110 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 playback picture.

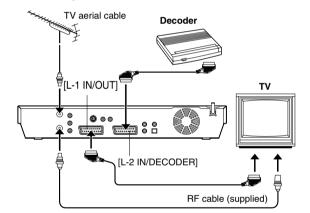
# When you can't switch the audio channel of a bilingual programme

When the unit is connected with a digital audio device using an optional optical cable and "DIGITAL AUDIO OUT" is set to "DOLBY DIGITAL/PCM", it is not possible to switch the audio channel of a bilingual programme recorded on a DVD-RAM or DVD-RW (VR mode) disc. In this case, perform the following steps using the remote control to switch "DIGITAL AUDIO OUT" from "DOLBY DIGITAL/PCM" to "PCM ONLY".

- 1 Press SET UP to access the Main Menu screen.
- Press selection keys to select "DVD VIDEO SET UP", then press ▽
- Press selection keys to select "AUDIO OUTPUT", then press
- 4 Press selection keys to select "DIGITAL AUDIO OUT", then press ENTER.
- 5 Press selection keys to select "PCM ONLY", then press **ENTER**. (1287 pg. 70)
- Press **SET UP** to complete the setting.
- 7 Press **AUDIO** to select the desired audio channel.

# Connecting/Using A Decoder

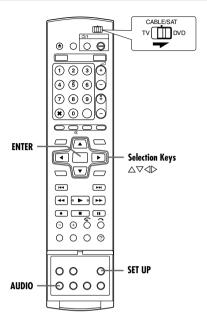
The [L-2 IN/DECODER] connector can be used as an input connector for an external decoder (descrambler). Simply connect a decoder and you can enjoy a variety of programming that is available through scrambled channels.



- I Set "L-2 SELECT" to "DECODER". (☞ pg. 65)
- 2 Connect your unit's [L-2 IN/DECODER] connector to the decoder's 21-pin SCART connector using a 21-pin SCART cable.
- Perform the procedure as described in "When Receiving A Scrambled Broadcast" (pg. 76).

# **Mode Set**

- Turn on the unit.
- Turn on the TV and select the AV mode.
- Slide the TV/CABLE/SAT/DVD switch to DVD.



Various modes of this unit are categorized into menus nested in 2 levels shown in the following table. To change the settings of these modes, find the desired mode in the menu (for details on each menu, see pages 70 through 72), then follow the procedure below.

DVD VIDEO SET UP	LANGUAGE SET (168 pg. 20) AUDIO OUTPUT (168 pg. 70) PARENTAL LOCK (168 pg. 34) DISC PLAY SET UP (168 pg. 71)
HDD/DVD SET UP	HDD SET UP (ISF pg. 71) DVD SET UP (ISF pg. 71) DISC SET UP (ISF pg. 78, 79)
FUNCTION SET UP	REC/PLAY SET UP (158 pg. 71) DISPLAY SET (158 pg. 72) VIDEO IN/OUT (158 pg. 21, 64)
INITIAL SET UP	TUNER SET (188 pg. 74) CLOCK SET (188 pg. 77)

- The procedure below shows how to set the desired option of the "AUDIO REC" mode as an example.
- Press SET UP to access the Main Menu screen.
- 2 Press selection keys to select "FUNCTION SET UP", then press ▽.
- 3 Press selection keys to select "REC/PLAY SET UP", then press
- 4 Press selection keys to select "AUDIO REC", then press ENTER.
- 5 Press selection keys to select the desired option, then press ENTER.



# **6** Press **SET UP** to complete the setting.

\* The **boldface** settings below indicate the settings at your purchase.

# **AUDIO OUTPUT**

# ■ DIGITAL AUDIO OUT — DOLBY DIGITAL/PCM / STREAM/PCM / PCM ONLY

Set to the appropriate mode according to the type of the device connected to [DIGITAL AUDIO OUT] connector.

## DOLBY DIGITAL/PCM:

Select this when you connect the digital input connector of a Dolby Digital Decoder or an amplifier with a built-in Dolby Digital Decoder.

## STREAM/PCM:

Select this when you connect the digital input connector of an amplifier with a built-in DTS, Dolby Digital, or MPEG multichannel decoder.

## PCM ONLY:

Select this when you connect the linear PCM digital input of other audio equipment (amplifier, MD or DAT deck, etc.).

### NOTES:

- This setting also functions when HDD is active.
- If you watch or play back a title which contains multiple audio languages, select "PCM ONLY" in advance and choose main or sub audio with AUDIO.

# ■ ANALOG AUDIO OUT — STEREO / DOLBY SURROUND Select the appropriate setting to accommodate the unit to the connected A/V equipment. This function takes effect when a DVD VIDEO disc is played back.

# STEREO:

Select this when listening to conventional two-channel stereo audio with the unit's [AUDIO OUT] connectors connected to a stereo amplifier/receiver or TV set, or in case you want to record the audio from a DVD VIDEO disc to a Mini Disc, etc.

# DOLBY SURROUND:

Select this when listening to multichannel surround audio with the unit's [AUDIO OUT] connectors connected to an amplifier/ receiver with a built-in surround decoder or a surround decoder.

# ■ D. RANGE CONTROL — NORMAL / WIDE RANGE / 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.

### NORMAL:

Normally select this setting to activate this function.

## WIDE RANGE:

Select this to deactivate this function when you enjoy wide dynamic range programme.

### TV MODE:

Select this when you hear the sound through the TV's speaker(s).

### NOTES:

- This function has no effect on programmes other than those recorded in Dolby Digital format.
- This function does not work when Simulated Surround Effect is activated. ((see pg. 32)
- The effect of "NORMAL" and "WIDE RANGE" may not be different depending on discs.

### ■ OUTPUT LEVEL — STANDARD / LOW

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

## STANDARD:

Normally select this setting.

# LOW:

The output level of analogue audio is lowered.

# **DISC PLAY SET UP**

# ■ RESUME — OFF / ON / DISC RESUME

When this function is set to "ON" or "DISC RESUME", you can use the resume function. (reg pg. 26)

OFF:

You cannot use the resume function.

You can start playback from the resume point of the placed disc.

# DISC RESUME:

The unit retains a memory of the resume points of the last 30 discs played back, even though they have been ejected.

"DISC RESUME" setting works on DVD VIDEO, VCD, SVCD and already finalised DVD-R/DVD-RW (video mode) discs. For other types of discs. the function under "ON" setting will be applied even if "RESUME" is set to "DISC RESUME".

# **HDD SET UP**

# ■ LIVE MEMORY — OFF / 30 MIN / 1 HR / 3 HR

When this function is set to "30 MIN", "1 HR" or "3 HR", you can apply the selected time length to "Temporary recording for Live Memory (HDD deck only)" (r pg. 44).

# **DVD SET UP**

# ■ SAVE AS LIBRARY — OFF / ON

When this function is set to "ON", the recording information is automatically stored in the library. For details, refer to "Edit Library Information" (pg. 56).

# **■ CONTINUOUS PLAY** — OFF / ON

When this function is set to "ON", multiple titles on a disc are played back continuously one after another.

# ■ VIDEO MODE RECORDING ASPECT — PRIORITIZE 4:3 / PRIORITIZE 16:9

This is the setting for the aspect ratio used when you dub titles to DVD discs in video mode. If the titles you want to dub are recorded in both 16:9 and 4:3, you must select one aspect ratio.

# PRIORITIZE 4:3:

If you select "PRIORITIZE 4:3", even a title recorded in 16:9 is dubbed in 4:3.

PRIORITIZE 16:9:

If you select "PRIORITIZE 16:9", even a title recorded in 4:3 is dubbed in 16:9.

# ■ VIDEO MODE RECORDING AUDIO — MAIN / SUB

This is the setting for the audio channel to be selected when dubbing titles to DVD discs in video mode. Select either one of the two settings if the titles to be dubbed have two audio channels.

Select this to dub the main channel.

SUB:

Select this to dub the sub channel.

# ■ MP3 & WMA / JPEG — MP3 & WMA / JPEG

You can select files to play back, when both MP3&WMA files and JPEG files are recorded on a disc.

### MP3 & WMA:

Select this to play back MP3/WMA files.

JPEG:

Select this to play back JPEG files.

# **REC/PLAY SET UP**

# ■ XP MODE REC AUDIO — DOLBY DIGITAL / LINEAR PCM You can select the audio format when you record a title in XP mode. When this function is set to "LINEAR PCM", you can obtain

### DOI BY DIGITAL:

a high-quality audio sound.

To record in Dolby Digital format.

LINEAR PCM:

To record in Linear PCM format.

## ■ AUDIO REC — NICAM / MONO

You can select the desired NICAM audio channel to be recorded on a DVD-R/RW (Video mode) disc.

# NICAM:

To record the main and sub language of NICAM audio.

To record the standard (monaural) sound of NICAM audio.

This function works only for the NICAM bilingual programme.

# ■ DIRECT REC — OFF / ON

When this function is set to "ON", you can easily start recording the programme that you are watching on your TV. While holding •, 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. 16)
- If "DIRECT REC" is set to "OFF", the button functions as described in "Basic Recording" (pg. 35, 38).
- During Direct Rec, "--" appears on the front display panel.
- If a programme is recorded with the Direct Rec, the station name will not be registered in the library. "---" will be displayed for the station name.
- Even if there is no power supply for more than 60 minutes, the unit keeps the setting.

### ■ INPUT COLOUR SYSTEM — PAL / SECAM

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

To record PAL signals.

SECAM:

To record SECAM signals.

### ■ JUMP TIME — 15 MIN / 30 MIN / 1 HR

You can locate a scene ahead of or behind the currently viewed one by jumping a selected time interval during playback (or Live Memory Playback). For details, refer to "Jump Search" (pp. 26, 41).

# **DISPLAY SET**

# ■ SUPERIMPOSE — OFF / AUTO

When this function is set to "AUTO", various operational indicators appear on the TV screen. Messages appear in the selected language. (Fig. 9g. 20)

OFF:

To turn off superimposed indications.

### AUTO:

To superimpose operational indications for approximately five seconds just after the corresponding operation.

### **NOTES:**

- Even when "SUPERIMPOSE" is set to "OFF", you can display the various operational indicators by pressing **ON SCREEN**. To clear the operational indicators, press **ON SCREEN** again.
- When you use this unit as the source player for editing, be sure to set "SUPERIMPOSE" to "OFF" before starting. (187 pg. 63)
- When you select "AUTO", during playback, the operation mode indicators may be disturbed depending on the type of disc being used.

# ■ BLUE BACK — OFF / ON

When this function is set to "ON", the TV screen becomes all blue when receiving a channel not in use.

### NOTE:

When you want to receive an unstable channel with poor signals, set this function to "OFF".

# **■ DIMMER** — **BRIGHT** / DIMMED

You can change the brightness of the front display panel.

### BRIGHT:

Normally select this.

### DIMMED:

To dim the front display panel. (Blue lamp on the front display panel is turned off.)

# ■ POWER SAVE — OFF / ON

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 (pg. 77) does not work.
- 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. (歐 pg. 49)
  - "L-2 ŠELECT" is set to "DECODER", "SAT VIDEO" or "SAT S-VIDEO". (☞ pg. 65)
- It takes some time for the unit to complete initialisation after you turn on the unit power, with "WAKE UP" blinking on the front display panel.

# **■ ON SCREEN LANGUAGE**

This unit offers you the choice to view on-screen messages in 10 different languages. Although Auto Set Up selects the language automatically (☞ pg. 19), you can change the language setting manually as required.

For details, refer to "On-screen Language Set" ( pg. 20).

# Scan Mode Set

If you connect the unit and TV with Component Video Connection (Page 16), you can select the scan mode from two modes: Interlaced scan mode which is used in the conventional TV system, and Progressive scan mode which enables reproduction of higher-quality images.

# ■ Interlaced scan

In the conventional video system, a picture is shown on the display monitor in two halves. The Interlaced scan system places lines of the second half of the picture in-between lines of the first half of the picture.

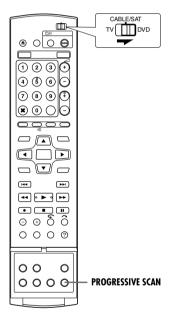
### ■ Progressive scan

Progressive scan displays all the horizontal lines of a picture at one time, as a single frame. This system can convert the interlaced video from DVD into progressive format for connection to a progressive display. It dramatically increases the vertical resolution.

### ATTENTION:

Your TV needs to be compatible with PAL Progressive.

- Turn on the unit.
- Turn on the TV and select the AV mode.
- Slide the TV/CABLE/SAT/DVD switch to DVD.



- Press **PROGRESSIVE SCAN** for 3 or more seconds.
  - Video output indicator (□) lights on the front display panel if Progressive scan mode has been established. (☞ pg. 12)
  - Each press of PROGRESSIVE SCAN for 3 or more seconds switches the scan mode.

- When the progressive mode is set, be sure to set "L-1 OUTPUT" to "COMPONENT" (@ pg. 64). Progressive scan is output only from [COMPONENT VIDEO OUT] connector.
- Interlaced scan mode is the setting at your purchase.
- Interlaced scan mode might be suitable depending on video material.
- Scan mode cannot be set while menu screen is displayed.
- When the Progressive scan mode is engaged, no video signal is output from [L-1 IN/OUT] connector.

# SHOWVIEW System Setup

#### IMPORTANT:

Normally, Auto Set Up (pg. 17), Preset Download (pg pg. 18) or Auto Channel Set ( pg. 74) sets the Guide Programme numbers automatically. You need to set the Guide Programme numbers manually only in the following cases.

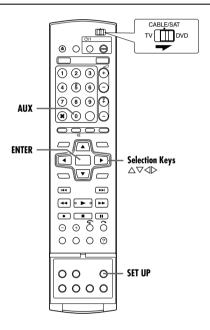
• When timer programming with the SHOWVIEW system, the channel position, where the station you wish to record is received on your unit, is not selected,

when you add a channel after Auto Set Up, Preset Download or Auto Channel Set has taken place,

- Set the Guide Programme number for that station manually. • When you wish to timer record a satellite programme with the
  - Set the Guide Programme numbers for all satellite broadcasts received on your satellite receiver.
- Turn on the unit.

SHOWVIEW system,

- Turn on the TV and select the AV mode.
- Slide the TV/CABLE/SAT/DVD switch to DVD.



## **Guide Programme Number Set**

- 1 Press SET UP to access the Main Menu screen.
- 2 Press selection keys to select "INITIAL SET UP", then press
- 3 Press selection keys to select "TUNER SET", then press  $\nabla$ .
- 4 Press selection keys to select "GUIDE PROG SET", then press ENTER.
- 5 Press selection keys to select "GUIDE PROG", then press ENTER.
- 6 Press selection kevs to select the Guide Programme number for the desired station as shown in the TV listings. Then press ENTER.





- 7 Press selection keys to select "TV PROG", then press ENTER. Press selection keys to select the number of the unit's channel position on which the Guide Programme number's broadcast is received by the unit or the satellite receiver. Then press ENTER.
  - Pressing AUX changes "TV PROG" to "SAT".
  - To timer record a satellite programme with the ShowView system, you need to install the provided Satellite Controller and perform the procedure described in "Satellite Receiver Control Setting" (pg. 22).
- Repeat steps 5 − 7 as necessary.
- 8 Press SET UP to complete the setting.

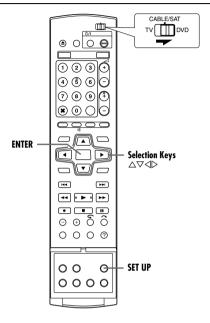
#### **Guide Programme Number**

"Guide Programme (GUIDE PROG) number" refers to the assigned TV station numbers, according to broadcast area, for the ShowView timer recording. The Guide Programme Numbers can be found in most TV listings.

# **Tuner Set**

Your unit needs to memorise 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 unit.
- Turn on the TV and select the AV mode.
- Slide the TV/CABLE/SAT/DVD switch to DVD.



#### **IMPORTANT:**

Perform the following steps only if —

- Auto Channel Set has not been set correctly by Auto Set Up or by Preset Download. (pg. pg. 17, 18)
- you have moved to a different area or if a new station starts broadcasting in your area.

## **Auto Channel Set**

- 1 Press SET UP to access the Main Menu screen.
- 2 Press selection keys to select "INITIAL SET UP", then press 

  ▽.
- **3** Press selection keys to select "TUNER SET", then press ▽.
- 4 Press selection keys to select "AUTO CH SET", then press ENTER.
- 5 Press selection keys to select your country's name, then press ENTER.
- **6** Press selection keys to select the language of your choice.



## **7** Press **ENTER** twice.

● When you have connected the unit to a TV offering T-V Link via a fully-wired 21-pin SCART cable (☞ pg. 16), the unit automatically performs the Preset Download and the T-V LINK screen will appear. (☞ pg. 18)



- The Auto Set screen appears, and remains on screen while the unit searches for receivable stations.
- 8 View the Confirmation screen.
  "AUTO SET COMPLETED" or "SCAN COMPLETED" is
  displayed on the TV screen. Select "OK".
- **9** Press **SET UP** to complete the setting.
  - Using the Confirmation screen, you can skip or add channel positions, enter station names and perform other operations.
     Refer to pages 75 – 76 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 "When Receiving A Scrambled Broadcast" (1287 pg. 76).

#### **IMPORTANT:**

- In certain reception conditions, station names may not be stored correctly, and Auto Guide Programme Number Set may not work properly. When the Guide Programme numbers are not set properly, the programme that you do not intended to record will be timer recorded by the SHOWVIEW system of the unit. When programming the timer using the SHOWVIEW system, be sure to check the desired channel is selected correctly. [128] pg. 45)
- Your unit memorises all receivable stations even if reception of some of them is poor. You can delete those stations with an unacceptable picture from the list. ( pg. 75, "Delete A Channel")

#### **NOTES:**

- Fine tuning is performed automatically during Auto Channel Set. If you want to perform tuning manually, refer to "Fine-Tuning Channels Already Stored" (Fig. pg. 76).
- 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 8. In such a case, make sure of the aerial connection and press ENTER; Auto Channel Set will start 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. (Fig. pg. 76, "INFORMATION").

#### Manual Channel Set

Store channels that were not stored during Auto Set Up (pg. 17), Preset Download (pg pg. 18) or Auto Channel Set (**p** pg. 74).

- 1 Press SET UP to access the Main Menu screen.
- **2** Press **selection keys** to select "INITIAL SET UP", then press
- **3** Press selection keys to select "TUNER SET", then press ∇.
- 4 Press selection keys to select "MANUAL CH SET", then press **ENTER**. The Manual Channel Set screen appears.

(Example) To store in position 12.

10

The programme currently received on the selected channel position appears behind

INITIAL SET UP > MANUAL CH SET

the confirmation screen.

INITIAL SET UP > MANUAL CH SET

BAND

СН

ID FINE

DECODER

- **5** Press selection keys to select "EDIT", then press ENTER.
- 6 Press selection keys to select a blank position in which you want to store a channel, then press ENTER. The Confirmation screen appears.
- 7 Press selection keys to select "BAND", then press ENTER.
- 8 Press selection keys to change the band between CH (regular) and CC (cable), then press ENTER.
- Press selection kevs to select "CH", then press ENTER.
- 10 Press selection kevs to input the channel number you want to store.
  - To enter the registered station name (registered station name (registered station name) selection keys to select "ID", then press ENTER. Press selection keys.
  - For fine tuning adjustment, press selection keys to select "FINE", then press **ENTER**. Press  $\triangle \nabla$  to perform fine-tuning.
  - When storing a channel that sends scrambled broadcasts, press selection keys to select "DECODER", then press ENTER. Press selection keys to set "DECODER" to "ON" ("OFF" is the default setting).
  - When "L-2 SELECT" is set to "VIDEO", "S-VIDEO", "SAT VIDEO" or "SAT S-VIDEO", the "DECODER" setting cannot be changed. (Fig. 65)
- 11 Press ENTER to enter new channel information. The Confirmation screen appears.
- 12 Press SET UP or RETURN to close the Confirmation screen.
  - To change positions, see "Change Station Channel Position" (**p** pg. 75).
  - If you wish to set station names other than the ones registered in your unit, see "Set Stations (B)" (pg. 76).

#### **ATTENTION:**

Guide Programme numbers are not set when channels are stored manually. ( pg. 73, "SHOWVIEW System Setup")

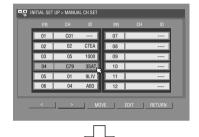
## **Delete A Channel**

- Perform steps 1 5 of "Manual Channel Set" (r pg. 75).
- 2 Press selection keys to select the channel you want to delete.
- **3** Press **CANCEL**( $\times$ ) to delete a channel. The channel next to the cancelled one moves up one line.
- Repeat steps 2 3 as necessary.
- **4** Press **SET UP** or **RETURN** to close the Confirmation screen.

# **Change Station Channel Position**

- Perform steps 1 4 of "Manual Channel Set" (r pg. 75).
- 2 Press selection keys to select "MOVE", then press ENTER.
- 3 Press selection keys to select the channel you want to move, then press ENTER.
- 4 Press **selection keys** to select 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.





- Repeat steps 3 4 as necessary.
- **5** Press **SET UP** or **RETURN** to close the Confirmation screen.

# When Receiving A Scrambled Broadcast

- I Set "L-2 SELECT" to "DECODER". (☞ pg. 65)
- 2 Perform steps 1 5 of "Manual Channel Set" (☞ pg. 75).
- **3** Press **selection keys** to select the channel position broadcasting scrambled programmes, then press **ENTER**. The Confirmation screen appears.
- 4 Press selection keys to select "DECODER", then press
- 5 Press selection keys to set "DECODER" to "ON", then press ENTER.
- Press RETURN to return to the Manual Channel Set screen.
   Repeat steps 3 5 as necessary.
- **7** Press **SET UP** or **RETURN** to close the Confirmation screen.

#### **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 broadcast as follows.

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

- Select a country in Eastern Europe in step 5 of "Auto Channel Set" (☞ pg. 74).
- Press selection keys to select "TV SYSTEM" in step 7 of "Manual Channel Set" (ISS pg. 75).
- Press selection keys to select appropriate TV System (D/K or B/G).

## Set Stations (A)

Set station names that are registered in your unit.

- Perform steps 1 5 of "Manual Channel Set" (№ pg. 75).
- 2 Press selection keys to select the channel you want to modify, then press ENTER. The Confirmation screen appears.
- 3 Press selection keys to select "ID", then press ENTER.
- 4 Move the arrow to the left ID selection column. Registered station names (ID) (▶ pg. 88) appear as you press the selection keys.
- 5 Press ENTER to select the desired ID, then press ENTER again to select "OK".
- **6** Press **RETURN** to return to the Manual Channel Set screen.
- Repeat steps 2 5 as necessary.
- **7** Press **SET UP** or **RETURN** to close the Confirmation screen.

# Set Stations (B)

Set station names other than the ones registered in your unit.

- Perform steps 1 5 of "Manual Channel Set" (ISS pg. 75).
- 2 Press selection keys to select the channel you want to modify, then press ENTER. The Confirmation screen appears.
- **3** Press **selection keys** to select "ID", then press **ENTER**.
- **4** Press **selection keys** to select the desired characters (A–Z, 0–9, −, ★, +, \_\_ (space)), then press **ENTER**.
  - Enter the remaining characters the same way (maximum of 4).
- **5** After entering all characters, press **selection keys** to select "OK", then press **ENTER**.
- **6** Press **RETURN** to return to the Manual Channel Set screen.
  - Repeat steps 2 − 5 as necessary.
- **7** Press **SET UP** or **RETURN** to close the Confirmation screen.

#### NOTE:

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

# **Fine-Tuning Channels Already Stored**

- Perform steps 1 5 of "Manual Channel Set" (r pg. 75).
- 2 Press selection keys to select the channel you want to finetune, then press ENTER. The Confirmation screen appears.
- 3 Press selection keys to select "FINE", then press ENTER.
- 4 Press selection keys until the picture appears in its best quality, then press ENTER.
- Repeat steps 2 4 as necessary.
- **5** Press **RETURN** to return to the Manual Channel Set screen.
- **6** Press **SET UP** or **RETURN** to close the Confirmation screen.

# **Clock Set**

#### **IMPORTANT:**

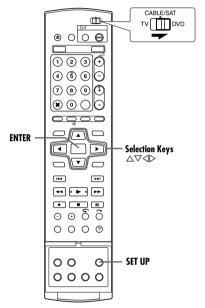
If you performed Auto Set Up (1887 pg. 17) or Preset Download (pg. 18), without ever having set the clock previously, the unit's built-in clock is also set automatically.

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 Just Clock setting. (See "Just Clock" in the right column)
- Turn on the unit.
- Turn on the TV and select the AV mode.
- Slide the TV/CABLE/SAT/DVD switch to DVD.



- Press SET UP to access the Main Menu screen.
- 2 Press selection keys to select "INITIAL SET UP", then press  $\nabla$ .

YEAR

DATE

TIME

JUST CLOCK

DVD VIDEO SET UP HDD/DVD SET UP FUNCTION SET UP INITIAL SET UP

11. 01 THU

TUNER SET CLOCK SET

3 Press selection keys to select "CLOCK SET", then press  $\nabla$ .

## **NOTE:**

When you have selected "MAGYARORSZÁG".

"ČESKÁ REPUBLIKA",

"POLSKA" or "OTHER EASTERN" for the country setting

(pg. 17), you cannot use Just Clock function. Skip steps 5

- 4 Press selection keys to select "YEAR", then press ENTER. Press selection keys to set the year, then press ENTER.
  - Repeat the same procedure to set the date and time.
- ullet When you set the date, press and hold  $\triangle \nabla$  to change the date by 15 days interval.
- When you set the time, press and hold  $\triangle \nabla$  to change the time by 30 minutes interval.

- 5 Press selection keys to select "JUST CLOCK", then press ENTER. Press selection keys to set to the desired mode, then press ENTER.
  - The default setting is "OFF".
  - For the Just clock function, refer to "Just Clock" on the right column.
- If you set to "OFF", you can disregard the next step as you won't be able to receive regular clock adjustments.
- Press selection kevs to select "TV PROGRAMME", then press ENTER. Press selection keys to set the channel position to the number representing the station transmitting clock setting data, then press ENTER.
  - The unit is preset to receive clock setting and adjustment data from channel position 1.
- **7** Press **SET UP** to start the clock operation.

#### 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.
- 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. (r pg. 49) (HDD deck only)
- the unit is in the Power Save mode. ( pg. 72)
- "L-2 SELECT" is set to "SAT VIDEO" or "SAT S-VIDEO". (**p** pg. 65)
- 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.

#### **Just Clock**

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

The Just Clock option can be set to "ON" or "OFF" at the Clock Set screen (the default setting is "OFF").

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

# Format A Disc (DVD Deck Only)















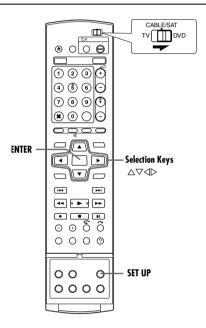


Some DVD-RAM/RW discs are unformatted.

Format the disc when you use an unformatted disc or you want to delete all recordings and data on the disc.

#### ATTENTION:

- When a disc is formatted, all recordings and data are erased. It is impossible to restore them.
- Never turn off the unit or disconnect the mains power cord while "NOW FORMATTING..." is displayed on the TV screen.
- Turn on the unit.
- Turn on the TV and select the AV mode.
- Slide the TV/CABLE/SAT/DVD switch to DVD.
- Load a DVD-RAM/RW disc to format.



## Format A DVD-RAM Disc

- 1 Press SET UP to access the Main Menu screen.
- 2 Press selection keys to select "HDD/DVD SET UP", then press
- 3 Press selection keys to select "DISC SET UP", then press  $\nabla$ .
- 4 Press selection kevs to select "FORMAT", then press ENTER. Press selection keys to select "OK", then press ENTER.
- 5 Press selection keys to select "EXECUTE", then press ENTER.



## Format A DVD-RW Disc

- Perform steps 1 to 3 of "Format A DVD-RAM Disc" as above before continuing.
- 2 Press selection keys to select "FORMAT", then press ENTER. Press selection keys to choose "VR MODE" or "VIDEO MODE", then press ENTER when "DISC WILL BE FORMATTED" appears on the TV screen.
  - "VR MODE":

To be chosen when you want to record, erase, or edit data on the disc repeatedly.

#### "VIDEO MODE":

To be chosen when you want to erase all the data on the disc once played back to record new data, or play back the disc on other DVD players.

Press selection keys to select "EXECUTE", then press ENTER.

## **NOTES:**

- It is impossible to format Version 1.0 DVD-RW discs in Video mode.
- It is impossible to format DVD-R discs.
- All the titles on a disc will be deleted once the disc is formatted even if they are protected titles. (repg. 52)

# Finalise A Disc (DVD Deck Only)













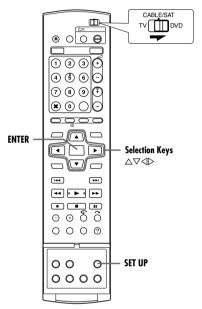




Finalising DVD-R/RW discs recorded on this unit makes it possible for the discs to be played back on other DVD players. DVD-RW discs are finalised in the mode that the discs were formatted, enabling playback on compatible DVD players.

Title names input in the Library Database Navigation are registered as title names in the DVD menu. (pg. 52)

- Turn on the unit.
- Turn on the TV and select the AV mode.
- Slide the TV/CABLE/SAT/DVD switch to DVD.
- Load a DVD-R/RW disc to finalise.



#### Before finalising

- It is possible to record on a blank space.
- It is possible to enter title names. (r pg. 52)
- It is possible to delete titles. (reg pg. 52)
- It is impossible to overwrite recorded areas of DVD-R discs.
- Available recording capacity does not increase even if a recorded title is deleted from a DVD-R disc.
- It is impossible to record or edit DVD-R/RW discs recorded on other devices even if they have not been finalised.

#### After finalising (For DVD-R/RW (Video mode) discs)

- Video and audio that have been recorded by then are recorded in conformity to the DVD Video standard, enabling you to play back the discs as DVD VIDEO discs.
- Although DVD-R/RW discs finalised on this unit become playable on DVD players compatible with DVD-R/RW discs, some discs still may not play, for which JVC cannot take responsibility.
- Marked points marked before finalising will be deleted, and titles will be divided automatically into "chapters" approximately every 5 minutes. (128 pg. 27)
- Depending on the DVD players and DVD-R/RW discs used, and on the conditions of recording, it may not be possible to play back the discs. In this case, play back the discs on this unit.
- Additional recordings become impossible.

## Finalise A DVD-R/RW Disc

- Perform steps 1 to 3 of "Format A DVD-RAM Disc" (pg. 78) before continuing.
- 2 Press selection keys to select "FINALISE", then press ENTER.
- For DVD-R/RW (Video mode) discs, the background selection screen will appear. Press selection keys to select the desired background from a selection of 18 backgrounds, then press ENTĚR.
- 3 Press selection keys to select "OK", then press ENTER.
- Upon completing finalisation, "COMPLETED" appears on the TV screen. Press ENTER to end.
- **5** Press **SET UP** to return to the normal screen.
- Menu screen is cleared.
- Once a DVD-R/RW (Video mode) disc has been finalised, the displays for original and play list do not appear. Only display for library appears.
- Once a DVD-RW (VR mode) disc has been finalised, it can be played on DVD players compatible with VR mode.

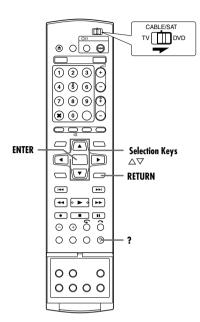
## Cancel The Finalisation Of A DVD-RW Disc

- 1 Load a DVD-RW disc to cancel the disc finalisation, and perform steps 1 to 3 of "Format A DVD-RAM Disc" (1287 pg. 78) before continuing.
- 2 Press selection keys to select "CANC. FINALIS.", then press ENTER.
- 3 Press selection keys to select "EXECUTE", then press ENTER.
- 4 Upon completing cancellation of finalisation, "CANCELLATION COMPLETED" appears on the TV screen. Press ENTER to
- **5** Press **SET UP** to return to the normal screen.
- When the disc finalisation is cancelled, the mode in which the disc was formatted is restored, making the disc recordable. (see pg. 7, 78)

# **Help Function**

Use this function if you encounter problems while operating this unit.

- Turn on the unit.
- Turn on the TV and select the AV mode.
- Slide the TV/CABLE/SAT/DVD switch to DVD.



- 1 Press ? to access the help screen.
- An "INDEX" screen that contains the most common needed topics (headings) relating to the current status appears. Topics with the icon refer to HDD deck operations and with the icon refer to those for the DVD deck.
- **2** Press △ ▽ to search for the item that describes the solution to your problem, then press **ENTER**.
  - The selected help page appears.
- You can also browse help pages by pressing selection keys.
- To return to a previous page, press **RETURN**.
- **3** Press ? to return to the normal screen.

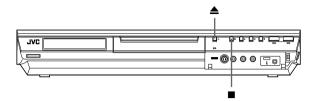
#### NOTE

 You cannot perform playback, recording, timer recording, or other normal operations while accessing the help screen.

# Tray Lock (DVD Deck Only)

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

• Turn off the unit.



#### To lock tray

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

#### To unlock trav

While the unit is turned off, press and hold ■, then press ≜ on the unit. "UNLOCK" appears on the front display panel.

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

# Initialising (DVD Deck Only)

#### Malfunction occurs on the unit.

→ Press (¹)/I to turn off the unit, press and hold (¹)/I, then press for two seconds or more.

#### General

#### No power is supplied to the unit.

- The AC power plug is disconnected from the mains outlet.
- → Connect the AC power plug to the mains outlet securely. (**r** pg. 16)

#### The remote control does not work properly.

- Remove the batteries, wait for 5 minutes or more, then load the butteries again
- The setting of the remote control code is inappropriate.
- Set the same remote control code (1, 2, 3, or 4) on both the unit and the remote control. (reg pg. 66)
- The batteries are discharged.
- Replace the dead batteries with new ones.

#### Dubbing from the external equipment 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 setting of the input channel position is inappropriate.
- → Select the input channel position ("F-1", "L-1" or "L-2") that corresponds to the input terminal connected to the external equipment. (Fig. 63)

The on-screen display superimposed on the programme played back/received on this unit is recorded when you dub the programme to an external recording equipment.

→ Set "SUPERIMPOSE" to "OFF". (IN pg. 72)

#### The unit does not operate.

- There are cases when the operation is prohibited on the disc.
- Lightning or static electricity may cause malfunction of the unit.
- → Press ७/I to turn the power off, then press the button again to turn the power on.

#### The remote control of a JVC TV will not operate the unit.

- The setting of the remote control code is inappropriate.
- To operate the unit using a JVC TV remote control, set the remote control code of the unit to "1" (Default: "3"). ( pg. 66)

# Playback (DVD Deck)

#### The DVD deck cannot be operated.

- The DVD deck is not selected.
- → Press DVD so that the DVD lamp lights up on the unit.

#### Images do not appear on the TV screen.

- The TV receiver's channel selector is not set to the AV mode.
- → Set the TV to its AV mode.
- When interlace scanned programme is played back, progressive scan mode is selected.
- Press and hold **PROGRESSIVE SCAN** until disappears from the front display panel. (Fig. 72)

#### Playback does not start or stop immediately after playback is started by pressing ▶. On the front display panel, "NO DISC" appears.

- The disc is loaded upside down.
- → Place the disc on the disc tray with the playback surface facing down. (pg pg. 8)
- A disc not being compatible with the unit is loaded.
- → Load a playable disc on the unit. (r pg. 5)
- A dirty disc is loaded.
- → Clean the disc. (reg pg. 9)
- Defective disc is loaded.
- Replace the warped or scratched disc with a normal one.

#### Images are blurred or distorted when you start High-Speed Search.

→ Images are blurred or distorted at the point where the playback speed changes and this is not a malfunction of the unit.

#### Playback does not start.

→ Playback does not start for approximately 30 seconds after recording is stopped and this is not a malfunction of the unit.

#### Playback does not start when you select a title or a chapter.

- The Parental Lock is engaged and the disc is rated higher than the set level
- Release the Parental Lock temporarily or change the set level. (rs pg. 34)

# Playback (HDD Deck)

#### The HDD deck cannot be operated.

- The HDD deck is not selected.
- → Press **HDD** so that the HDD lamp lights up on the unit.

# Recording (DVD Deck)

#### The desired programme cannot be recorded.

- The channel position does not correspond to that in the receiving area.
- Set the correct channel position for the receiving broadcast. (🖙 pg. 73)

#### Recording cannot be made.

- No disc or a disc not being compatible with the unit is loaded.
- Load a recordable disc on the unit. (pg. 5)
- The disc loaded is not formatted.
- Format the disc. (pg. 78)
- A finalised DVD-R disc is loaded.
- Recording cannot be made on finalised discs. Load a recordable disc on the unit.
- The disc is full or does not have enough space for the title to be recorded.
- Clear unnecessary titles on the disc or load a blank disc. (rs pg. 52)
- The DVD-RAM disc loaded has had its protect tab slid to the protect position.
- Release the protect tab. (pg. 8)

# **Recording (HDD Deck)**

#### TV broadcasts cannot be recorded.

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

#### Camcorder recording is not possible.

- The camcorder has not been properly connected.
- Confirm that the camcorder is properly connected.
- The input mode is not correct.
- → Set the input mode to "F-1". (128 pg. 62)

# **Timer Recording**

#### Timer programming cannot be made.

- Date and time is not correct.
- → Set date and time correctly. (r pg. 77)
- Timer recording is in progress.
- Timer programming can't be performed while a timer recording is in progress. Wait until it finishes.

#### Timer programming recording does not start.

- Date and time is not correct.
- → Set date and time correctly. (

  pg. 77)

#### SHOWVIEW Timer Programming cannot be made.

- Date and time set on the unit is not correct.
- → Set date and time correctly. (

  pg. 77)
- The channel position does not correspond to that in the receiving area.
- → Set the correct channel position for the receiving broadcast. (ISP pg. 73)

#### The ShowView system does not timer record properly.

- The unit's channel positions have been set incorrectly.
- → Refer to "SHOWVIEW System Setup" (ISS pg. 73) and reperform the procedure.

#### Automatic Satellite Programme Recording does not start.

- The satellite receiver is not connected properly to this unit.
- → Connect the satellite receiver to the [L-2 IN/DECODER] connector properly. (ISS pg. 49)

#### On the front display panel, "--:--" appears.

- Power failure occurred.
- → Set date and time correctly. (r pg. 77)

# "PROGRAMME FULL" appears on the TV screen during timer programming.

- 32 programmes have already been timer programmed.
- → Clear unnecessary programmes on the unit, then try timer programming again. (☞ pg. 48)

# The disc space does not increase when recorded titles are cleared.

- The PC's data recorded on a DVD-RAM drive cannot be cleared on this unit.
- → Format the disc. (When the disc is soiled, wipe the disc with a soft dry cloth before formatting.) (☞ pg. 9, 78)

## Other Problems

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

#### For basic connection

→ Press **PROGRESSIVE SCAN** for 3 or more seconds so that the Video output indicator (□) lights off on the front display panel.

#### For component video connection

→ Press **PROGRESSIVE SCAN** for 3 or more seconds so that the Video output indicator (▶) lights up on 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. 75)

#### The channel cannot be changed.

- Recording or RetroActive recording\* is in progress.
- → Press II to pause recording, change the channel, then press be to resume recording.
  - \* HDD deck only

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

- After the manual settings were made, Auto Channel Set was performed.
- → Perform "Clock Set" (IPP pg. 77).

#### Malfunction occurs and the unit cannot be power off.

 Reset the unit by disconnecting the AC power plug from the AC outlet and connect again.

## On-screen Message

#### **DISC NOT REGISTERED IN THE LIBRARY** REGISTER DISC?

• A disc that is not registered in the library has been inserted. Register the disc as necessary. (Fig. 56)

#### **INSERT DISC XXXX**

• Appears when a title that has been selected in the library is not contained in the loaded disc.

#### **CAN NOT RECORD OR MAKE PLAY LIST DELETE UNWANTED TITLES**

- Recording and/or editing cannot be performed.
- The number of titles exceeds 99.
- The number of play lists exceeds 99.

#### SET CLOCK BEFORE TIMER PROGRAMMING

• To set the timer programme, the clock must be set in advance. (**p** pg. 77)

#### PROGRAMME FULL **DELETE UNWANTED TIMER PROGRAMMES**

 You can programme this unit to timer record as many as 32 programmes. To programme more, you need to cancel a timer programme already set. (Fig. 48)

#### **DISC NOT LOADED**

 Operation has been attempted when a disc is not loaded, or loaded upside down. (reg pg. 8)

#### DISC NOT RECORDABLE **INSERT RECORDABLE DISC**

 When a playback-only disc or a finalised disc is loaded, ● has been pressed. (reg pg. 5)

#### SHOWVIEW NO. ERROR **CONFIRM SHOWVIEW NO. THEN RETRY**

An invalid SHOWVIEW number has been input. (☞ pg. 45)

#### **GUIDE PROGRAM IS NOT SET SET GUIDE PROGRAM THEN RETRY**

 To set the timer programme using the SHOWVIEW system, the Guide Programme Number must be set in advance. ( pg. 73)

#### CAN NOT SET SHOWVIEW TIMER PROGRAMMING DURING TIMER RECORDING OR INSTANT TIMER RECORDING

• Appears when you tried to input a SHOWVIEW number during timer recording or instant timer recording.

#### REGION CODE ERROR **CHECK DISC**

• A disc loaded cannot be played back on this unit since the region number of the disc does not match that of the unit. (Fig pg. 6)

#### **UNREADABLE DISC CHECK DISC**

 When an incompatible disc is loaded, ▶ has been pressed. (**r** pg. 6)

#### **COULD NOT FORMAT THE DISC CHECK THE DISC**

 Formatting is not complete since the disc may be dirty or damaged. Take out the disc, clean it and retry. (128 pg. 9, 78)

#### **CAN NOT FINALISE THIS DISC**

• Finalising is not complete since the disc may be dirty or damaged. Take out the disc, clean it and retry. (12 pg. 9, 79)

#### **CAN NOT CANCEL FINALISATION OF THIS DISC**

• Cancelling disc finalisation is not complete since the disc may be dirty or damaged. Take out the disc, clean it and retry. (pg. 9,

## PRESS [STOP] AGAIN TO STOP RECORDING

During Live Memory playback, ■ has been pressed. (
 pg. 42)

#### TIMER RECORDING COMPLETED

• Timer recording has finished during Live Memory playback.

#### **PLAYBACK WILL STOP** THEN TIMER RECORDING WILL START

• Timer recording finished during Live Memory playback, then the next timer recording is about to begin while playback continues.

#### **COPY PROHIBITED CAN NOT RECORD**

- An attempt has been made to record copy-protected contents.
- An attempt has been made to record copy-once contents on a disc that is not CPRM compatible, such as DVD-R.

#### **COPY PROHIBITED CAN NOT PLAY**

• The unit has detected invalid contents at the start or in the middle of playback.

#### THE I.LINK DEVICE THAT YOU HAVE CONNECTED IS NOT RECOGNIZED MAKE SURE THAT THE DEVICE IS CONNECTED PROPERLY AND POWERED ON

- An attempt has been made to start DV dubbing when a digital video camera is not properly connected to the unit.
- Check the connection. (ps pg. 60)

#### **GENERAL**

**Power requirement** 

AC 220 V - 240 V √, 50 Hz/60 Hz

Power consumption

Power on: 37 W Power off: 19.3 W

**Temperature** 

Operating: 5°C to 35°C Storage: -20°C to 60°C

Operating position

Horizontal only

Dimensions (WxHxD)

435 mm x 70 mm x 345.5 mm

Weight

6.1 kg

Input/Output

Video input: 0.5 - 2.0 Vp-p,  $75 \Omega$  (pin jack)

Audio input:

-8 dB, 50 k $\Omega$  (pin jack)

Corresponding to mono (left)

Audio output: -8 dB, 1 k $\Omega$  (pin jack)

21-pin SCART connectors:

IN/OUT x 1, IN/DECODER x 1

S-video input:

Y: 0.8 – 1.2 Vp-p, 75 Ω

C: 0.2 - 0.4 Vp-p, 75  $\Omega$ 

S-video output:

Y: 1.0 Vp-p, 75 Ω

C: 0.3 Vp-p, 75 Ω

i.Link: 4-pin for DV input

Component video output: Y: 1.0 Vp-p, 75  $\Omega$ 

 $C_B/C_R$ ,  $P_B/P_R$ : 0.7 Vp-p, 75  $\Omega$ 

Corresponding to copy protection

SAT Control: ø3.5 mm Jack

Digital audio output:

Optical, Coaxial

Corresponding to Dolby Digital and DTS Digital Surround

Bit stream

Selectable in digital audio output setting menu

#### VIDEO/AUDIO (DVD Deck)

#### Recording time

Maximum 8 hours (with 4.7 GB disc)

(XP): Approx. 1 hour

(SP): Approx. 2 hours

(LP): Approx. 4 hours

(EP): Approx. 6 hours

(FR): Approx. 1 hour - 8 hours

#### Audio recording system

Dolby Digital (2 ch)

Linear PCM (XP mode only)

#### Video recording compression system

MPEG 2 (CBR/VBR)

#### VIDEO/AUDIO (HDD Deck)

Video recording compression system

MPEG 2 (VBR)

Audio recording system

Dolby Digital (2 ch)

Linear PCM (XP mode only)

#### **Recording time**

Maximum 300 hours (with 160 GB HDD)

(XP): Approx. 36 hours

(SP): Approx. 72 hours

(LP): Approx. 143 hours

(EP): Approx. 214 hours (FR): Approx. 300 hours

### TUNER/TIMER

#### Signal system

PAL colour signal and CCIR monochrome signal, 625 lines/50 fields

#### TV channel storage capacity

99 positions (+AUX position)

#### **Tuning system**

Frequency synthesised tuner

#### Channel coverage

VHF: 47 MHz - 89 MHz/

104 MHz - 300 MHz/

302 MHz - 470 MHz

UHF: 470 MHz - 862 MHz

# Memory backup time

Approx. 60 minutes

#### **ACCESSORIES**

#### Provided accessories

RF cable.

21-pin SCART cable,

Satellite Controller,

Infrared remote control unit,

"R6" battery x 2

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

#### 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 disc. After checking the disc, operate the unit as usual.

# Language Code List

	T				
AA	Afar	IK	Inupiak	RN	Kirundi
AB	Abkhazian	IN	Indonesian	RO	Rumanian
AF	Afrikaans	IS	Icelandic	RU	Russian
AM	Ameharic	IW	Hebrew	RW	Kinyarwanda
AR	Arabic	JI	Yiddish	SA	Sanskrit
AS	Assamese	JW	Javanese	SD	Sindhi
AY	Aymara	KA	Georgian	SG	Sangho
AZ	Azerbaijani	KK	Kazakh	SH	Serbo-Croatian
BA	Bashkir	KL	Greenlandic	SI	Singhalese
BE	Byelorussian	KM	Cambodian	SK	Slovak
BG	Bulgarian	KN	Kannada	SL	Slovenian
ВН	Bihari	КО	Korean (KOR)	SM	Samoan
BI	Bislama	KS	Kashmiri	SN	Shona
BN	Bengali, Bangla	KU	Kurdish	SO	Somali
во	Tibetan	KY	Kirghiz	SQ	Albanian
BR	Breton	LA	Latin	SR	Serbian
CA	Catalan	LN	Lingala	SS	Siswati
СО	Corsican	LO	Laothian	ST	Sesotho
CS	Czech	LT	Lithuanian	SU	Sundanese
CY	Welsh	LV	Latvian, Lettish	SW	Swahili
DZ	Bhutani	MG	Malagasy	TA	Tamil
EL	Greek	MI	Maori	TE	Telugu
EO	Esperanto	MK	Macedonian	TG	Tajik
ET	Estonian	ML	Malayalam	TH	Thai
EU	Basque	MN	Mongolian	TI	Tigrinya
FA	Persian	МО	Moldavian	TK	Turkmen
FJ	Fiji	MR	Marathi	TL	Tagalog
FO	Faroese	MS	Malay (MAY)	TN	Setswana
FY	Frisian	MT	Maltese	то	Tonga
GA	Irish	MY	Burmese	TR	Turkish
GD	Scots Gaelic	NA	Nauru	TS	Tsonga
GL	Galician	NE	Nepali	TT	Tatar
GN	Guarani	ОС	Occitan	TW	Twi
GU	Gujarati	OM	(Afan) Oromo	UK	Ukrainian
НА	Hausa	OR	Oriya	UR	Urdu
HI	Hindi	PA	Panjabi	UZ	Uzbek
HR	Croatian	PL	Polish	VI	Vietnamese
HU	Hungarian	PS	Pashto, Pushto	VO	Volapuk
HY	Armenian	PT	Portuguese	WO	Wolof
IA	Interlingua	QU	Quechua	XH	Xhosa
IE	Interlingue	RM	Rhaeto-Romance	YO	Yoruba
	mterinigue	1 (14)	i inacto i tomance	ZU	Zulu
				20	Zuiu

# Country/Area Code List for Parental Lock

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

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

# **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.

ID	he TV screen when the un
1000	
3SAT	TV1000 3SAT
9LIV	9LIVE
AB3	AB3
ADLT	ADULT
ANIM	ANIMAL PLANET
ANT3	ANTENA3
ARD	ARD
ARTE	ARTE
ATV	MAGYAR ATV
B1	BERLIN 1
BBC	BBC GROUP
BBC1	BBC1
BBC2	BBC2
BBCW	BBC WORLD
BIO+	TV BIO+
BLOO	BLOOMBERG
BR3	BAYERN3
C+ C1	CANAL PLUS
C9	PORTUGUSES
CAN5	VALENCIA
CANV	CANALE5 KETNET CANVAS
CANZ	KANAAL Z
CH4	CHANNEL4
CH5	CHANNEL5
CHLD	CHILD
CINE	CINEMA
CLUB	TELECLUB
CMT	CMT
CNN	CNN
CSUR	ANDALUCIA
CT1	CT 1
CT2	CT 2
DISC	DISCOVERY
DK1	DENMARK1
DK2	DENMARK2
DK4 DR1	DENMARK4
DR1 DR2	DR TV DR2
DSF	DSF
DUNA	DUNA TV
ETB1	ETB1
ETB2	ETB2
ETV	ETV
EUNW	EURO NEWS
EURO	EURONEWS
EUSP	EUROSPORTS
FEMM	FEMMAN
FILM	FILM
FNET	FILMNET
FR2	France2
FR3	France3
FR5	France5
GALA HBO	GALAVISION
HBO HR3	HBO HESSEN3
HSEU	H.S.EURO
INFO	INFO-KANAL
ITA1	ITALIA1
ITA7	ITALIAT ITALIA7
ITV1	ITV

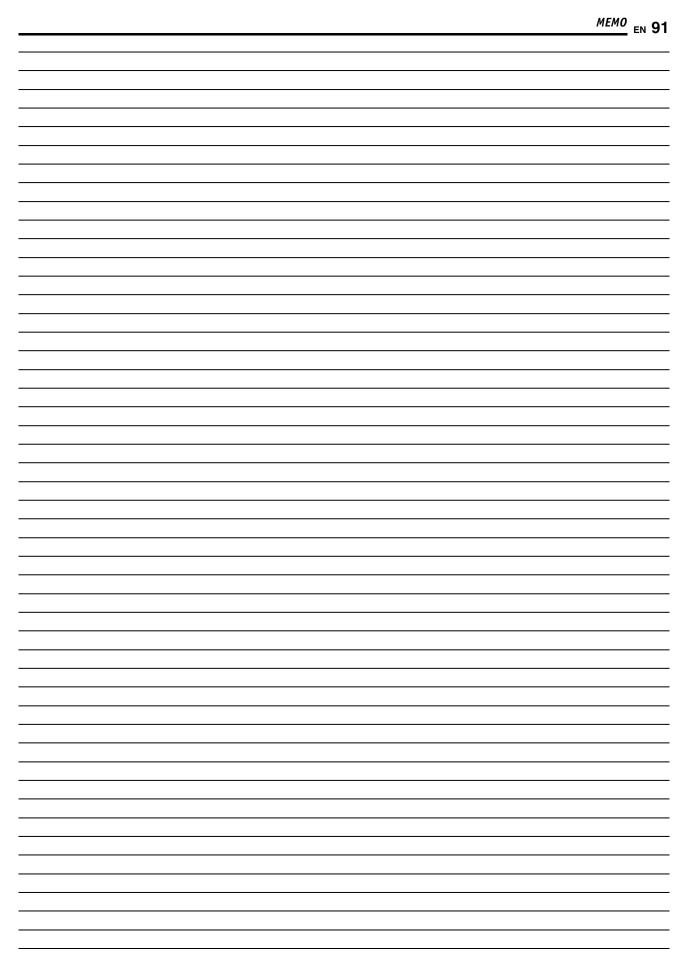
SF2

SF2

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# JVC