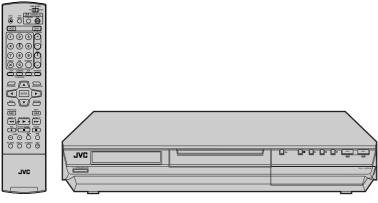
Filename [DR-MH30UJ\_01Cov1.fm] DR-MH30UJ 00.book Page 1 Monday, July 12, 2004 3:17 PM





# **DVD & HDD VIDEO RECORDER**

# **DR-MH30SUJ**/ **DR-MH20SUJ**

















For Customer Use:

Enter below the Model No. and Serial No. which are located on the rear of cabinet. Retain this information for future reference.

Model No.

Serial No.

LPT0974-001A

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INSTRUCTIONS

DR-MH30UJ 00.book Page 2 Monday, July 12, 2004 3:17 PM

# **2** EN SAFETY FIRST

### Dear Customer,

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

# Cautions



REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



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



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

### **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

CAUTION	VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM. DO NOT STARE INTO BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS.
ADVARSEL	SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING. UNDGÅ UDSAETTELSE FOR STRÅLING SE IKKE IND I STRÅLEN - HELLER IKKE MED OPTISKE INSTRUMENTER.
ADVARSEL	SYNLIG OG USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES. UNDGÅ EKSPONERING FOR STRÅLEN STIRR IKKE INN I STRÅLEN ELLER SE DIREKTE MED OPTISKE INSTRUMENTER.
VARO!	AVATTAESSA OLET ALTTIINA NÄKYVÄÄ JA NÄKYMÄTÖN LASERSÄTEILYLLE. ÄLÄ TUIJOTA SÄTEESEEN ÄLÄKÄ KATSO SITÄ OPTISEN LAITTEEN LÄPI.
VARNING	SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. STRÅLEN ÄR FARLIG STIRRA EJ IN I STRÅLEN OCH BETRAKTA EJ STRÅLEN MED OPTISKA INSTRUMENT.

### WARNING:

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

### CAUTION:

TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

### **ATTENTION:**

POUR ÉVITER LES CHOCS ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

### Note to CATV system installer:

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

### POWER SYSTEM:

This unit operates on voltage of AC 110 – 240 V  $\sim,$  50/60 Hz with automatic switching.

4

# SAFETY FIRST EN 3

# Important product safety instructions

Electrical energy can perform many useful functions. But improper use can result in potential electrical shock or fire hazards. This product has been engineered and manufactured to assure your personal safety. In order not to defeat the built-in safeguards, observe the following basic rules for its installation, use and servicing.

### **ATTENTION:**

Follow and obey all warnings and instructions marked on your product and its operating instructions. For your safety, please read all the safety and operating instructions before you operate this product and keep this booklet for future reference.

### INSTALLATION

### 1. Grounding or Polarization

(A) Your product may be equipped with a polarized alternatingcurrent line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature.

If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

(B) Your product may be equipped with a 3-wire grounding-type plug, a plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.

#### 2. Power Sources

Operate your product only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. If your product is intended to operate from battery power, or other sources, refer to the operating instructions.

### 3. Overloading

Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

### 4. Power Cord Protection

Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

### 5. Ventilation

Slots and openings in the cabinet are provided for ventilation. To ensure reliable operation of the product and to protect it from overheating, these openings must not be blocked or covered.

- Do not block the openings by placing the product on a bed, sofa, rug or other similar surface.
- Do not place the product in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

### 6. Wall or Ceiling Mounting

The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

# ANTENNA INSTALLATION INSTRUCTIONS

1. Outdoor Antenna Grounding

If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding connectors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

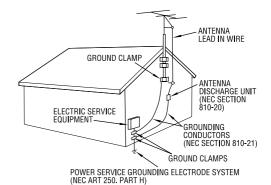
### 2. Lightning

For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

### 3. Power Lines

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

#### EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE, ANSI/NFPA 70



NEC - NATIONAL ELECTRICAL CODE

# 4 EN SAFETY FIRST

### USE

### 1. Accessories

- To avoid personal injury:
- Do not place this product on an unstable cart, stand, tripod, bracket, or table. It may fall, causing serious injury to a child or adult, and serious damage to the product.
- Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with the product.
- Use a mounting accessory recommended by the manufacturer and
- follow the manufacturer's instructions for any mounting of the product.Do not try to roll a cart with small casters across thresholds or deep-
- pile carpets.

#### 2. Product and Cart Combination

A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

#### 3. Water and Moisture

Do not use this product near water—for example, near a bath tub, wash bowl, kitchen sink or laundry tub, in a wet basement, or near a swimming pool and the like.

### 4. Object and Liquid Entry

Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

#### 5. Attachments

Do not use attachments not recommended by the manufacturer of this product as they may cause hazards.

#### 6. Cleaning

Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

#### 7. Heat

The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

### SERVICING

### 1. Servicing

If your product is not operating correctly or exhibits a marked change in performance and you are unable to restore normal operation by following the detailed procedure in its operating instructions, do not attempt to service it yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

### 2. Damage Requiring Service

Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- a. When the power supply cord or plug is damaged.
- b. If liquid has been spilled, or objects have fallen into the product.
- c. If the product has been exposed to rain or water.
- d. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
- e. If the product has been dropped or damaged in any way.
  f. When the product exhibits a distinct change in performance this indicates a need for service.

#### 3. Replacement Parts

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or which have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

### 4. Safety Check

Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in safe operating condition.

### HOW TO USE THIS INSTRUCTION MANUAL

- All major sections and subsections are listed in the Table Of Contents on page 6. Use this when searching for information on a specific procedure or feature.
- The Index on pages 12 15 lists frequently-used terms, and the number of the page on which they are used or explained in the manual. This section also illustrates the controls and connections on the front and rear panel, the front display panel and the remote control.
- The IP 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.

### BEFORE YOU INSTALL YOUR NEW UNIT ...

. please read the sections/literature listed below.

"Cautions" on page 2

"Important product safety instructions" on pages 3 – 5



PORTABLE CART WARNING

(Symbol provided by RETAC)

# SAFETY FIRST EN 5





- 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.
- VCR Plus+, C<sup>3</sup> and PlusCode are registered trademarks of Gemstar Development Corporation. The VCR Plus+ system is manufactured under license from Gemstar Development Corporation.
- DSS<sup>™</sup> is an official trademark of DIRECTV, Inc., a unit of GM Hughes Electronics. DISH Network<sup>™</sup> is a trademark of Echostar Communications 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.

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

When discarding batteries, environmental problems must be considered and the local rules or laws governing the disposal of these batteries must be followed strictly.

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

- 1. DO NOT place the unit -
  - in an environment prone to extreme temperatures or humidity.
  - in direct sunlight.
  - in a dusty environment.
  - in an environment where strong magnetic fields are generated.
  - on a surface that is unstable or subject to vibration.
- <u>DO NOT</u> block the unit's ventilation openings or holes. (If the ventilation openings or holes are blocked by a newspaper or cloth, etc., the heat may not be able to get out.)
- <u>DO NOT</u> place heavy objects on the unit or remote control.
   <u>DO NOT</u> 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. <u>DO NOT</u> expose the apparatus to dripping or splashing.
- <u>DO NOT</u> use this equipment in a bathroom or places with water. Also DO NOT place any containers filled with water or liquids (such as cosmetics or medicines, flower vases, potted plants, cups, etc.) on top of this unit.
- 7. <u>DO NOT</u> place any naked flame sources, such as lighted candles, on the apparatus.
- 8. AVOID violent shocks to the unit during transport.

### **MOISTURE CONDENSATION**

Moisture in the air will condense on the unit when you move it from a cold place to a warm place, or under extremely humid conditions—just as water droplets form 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.

### **ATTENTION:**

#### To mobile phone users:

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

#### On placing the unit:

Some TVs or other appliances generate strong magnetic fields. Do not place such appliances on top of the unit as it may cause picture disturbance. DR-MH30UJ\_00.book Page 6 Monday, July 12, 2004 3:17 PM

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# **About Discs**

# **Recordable/playable Discs**

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

RAM TM RAM4.7	
<b>DVD-RAM</b> 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 – 2x speed	<b>DVD-RW</b> 12 cm: 4.7 GB/9.4 GB Ver. 1.1/1x – 2x speed (Video mode/VR mode)
R R 4.7	

**DVD-R** 12 cm: 4.7 GB 8 cm: 1.4 GB Ver. 2.0/1x – 4x speed (Video mode)

The above table is based on the information as of February 2004.

 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 programs of digital broadcasts only onto 4.7/9.4 GB DVD-RAM discs (2.8 GB DVD-RAM discs are not compatible).

# DISC INFORMATION EN 7

### DVD-R/RW Discs

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

When a DVD-RW disc (VR mode) is finalized (I pg. 72), it can be played back on a standard DVD player compatible with the VR mode of DVD-RW discs.

### Before finalizing -

— it is possible to record on unrecorded areas of the disc, edit the disc title and program titles, and delete programs.

- It is impossible to record or edit DVD-R/RW discs recorded on other devices even if they have not been finalized.
- It is impossible to overwrite recorded areas of DVD-R discs.
- Available recording capacity does not increase even if a recorded program is deleted from a DVD-R disc.

### After finalizing -

After a DVD-R/RW disc (Video mode) has been finalized, it is possible to play back the recorded programs (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

CONTENTS MENU	A PREV
82 GALAXY ANGEL A #01 OP 06/10 9:30 PR12 <hdd< td=""><td></td></hdd<>	
83 GALAXY ANGEL A #01 ED 06/10 9:30 PR12 <hdd< td=""><td></td></hdd<>	
84 FISHING WORLD OP 22/12 20:00 PR3	22.12.2002
85 FISHING WORLD ED 22/12 20:00 PR3	
86 RALLY CAR OP 10/04 0:30 PR16	
87 RALLY CAR ED 10/04 0:30 PR16	
88 Chobits #04 OP 02/05 PR10	
89 Chobits #04 ED 02/05 PR10	
90 Chobits #25 ED 26/09 0:00 PR10 MN32 LPCM	
	NEXT

- 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 programs can only be recorded onto DVD-RW discs formatted in VR mode.

### NOTE:

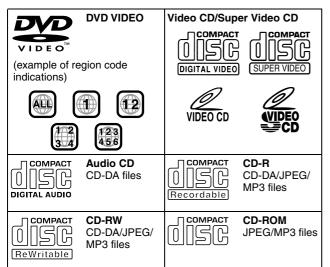
The following may result if you play back a DVD-R disc recorded on another unit.

- 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.

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# **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 finalized.
- 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 x 2,112 pixels.
- CD-R/RW discs recorded in music CD format need to be finalized 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 doublelayered 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.

Masterpage:Left+

- 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)

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

- Discs of a region number other than "1
- DVD-RAM (2.6 GB/5.2 GB)
- DVD-RAM (TYPE1)

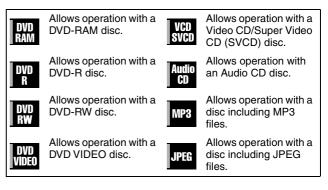
# **Region Number**

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 "1". Only discs whose region number includes "1" 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



### **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 program currently being recorded, but also to watch another program 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 program 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. (IFP pg. 29)

# When you record a program 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 finalized, these chapter marks are deleted and new chapter marks are assigned automatically approximately every 5 minutes.

DVD-RAM, DVD-RW, DVD-R or DVD VIDEO disc

Title 1	Title 2
Chapter 1 Chapter 2 Chapter 3	Chapter 1 Chapter 2 Chapter 3

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

After finalizing, it is impossible to perform editing operations.

# DISC INFORMATION EN 9

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.

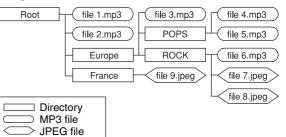
Audio CD or Video CD/SVCD	
---------------------------	--

				-
Track 1	Track 2	Track 3	 Track 4	

### 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. (IPP 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 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. (ICF pp. 31)

### Regarding the contents recorded on discs

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

# **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	Number of subtitles		00 3 1	Number of angles	
4:3	Recorded under the standard 4:3 aspect ratio		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	<b>16:9 LB</b> Video playback is in Wide video mode (16:9) of wide televisions, but in letter box on televisions with standard 4:3 aspect ratio.				
16:9	PS	wide televisions, b televisions with sta	yback is in Wide video mode (16:9) on visions, but pan and scan is used on s with standard 4:3 aspect ratio (either right side of the image is cut-out).		

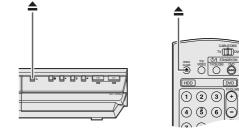
### Marks related to audio

3))	Number of audio tracks
DIGITAL	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

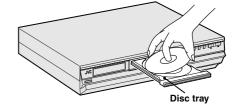
Press  $\triangleq$  to open the disc tray.



Masterpage:Left+

- Pressing the button again closes the disc tray.
- Use the buttons 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**



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, programs 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.

# DISC INFORMATION EN 11

# **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 and 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 dirt 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



### **CAUTION:**

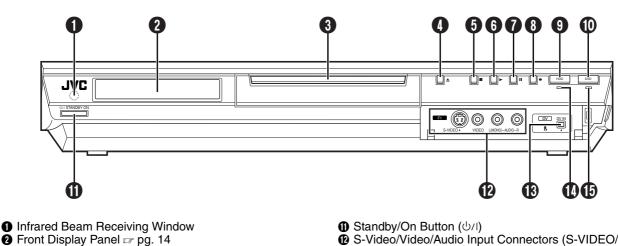
agents.

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.

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# 12 EN *INDEX* **Front View**



- O Disc Tray
- Open/Close Button (▲) ☞ pg. 10
- i) Stop Button (■) ☞ pg. 27, 42
   i) Play Button (►) ☞ pg. 27, 42
- Pause Button (II) pg. 27, 42
- 8 Record Button (●) □ pg. 37, 40
- 1 HDD Button 🖙 pg. 40
- DVD Button 🖙 pg. 27

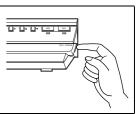
B-Video/Video/Audio Input Connectors (S-VIDEO/ VIDEO/AUDIO (L/R)) ☞ pg. 61 B DV Input connector (DV IN (♣\*)) ☞ pg. 60

i (i.Link) refers to the IEEE1394-1995 industry specification and extensions thereof. The is logo is used for products compliant with the i.Link standard.

🚯 HDD Lamp 🖙 pg. 40

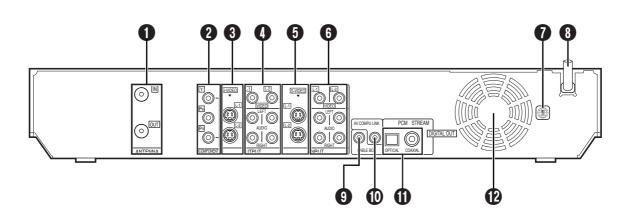
DVD Lamp □ pg. 27
 DVD Lamp □ pg. 27

To access covered connectors, pull and open the connector cover.



**Rear View** 

# INDEX EN 13



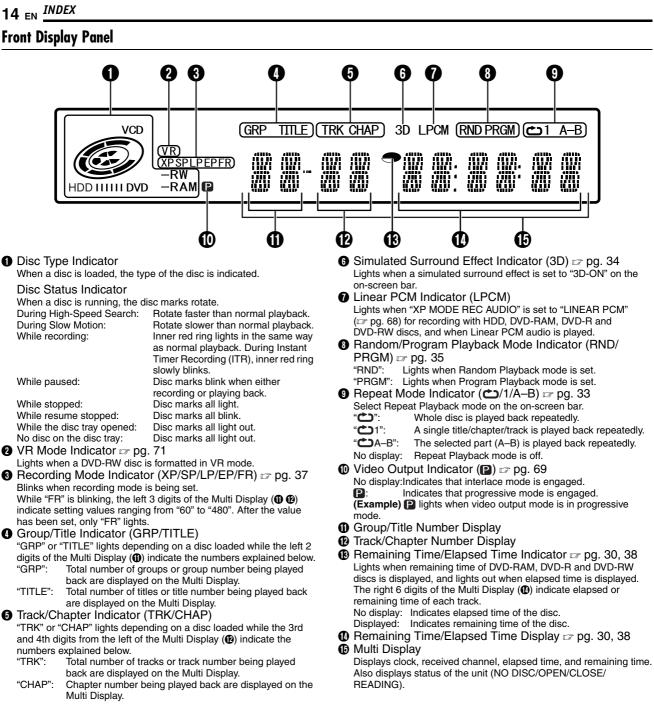
- Antenna Connectors (ANTENNA IN/OUT) pg. 19
   Component Video Output Connectors (COMPONENT
- VIDEO OUT) ☞ pg. 19 S-video Output Connectors (S-VIDEO OUTPUT (L-1/
- S-video Output Connectors (S-VIDEO OUTPUT (L-1/ L-2)) pp. 19, 62
- S-video Input Connectors (S-VIDEO INPUT (L-1/L-2)) g pg. 62
- ③ Video/Audio Input Connectors (VIDEO/AUDIO INPUT (L-1/L-2)) ☞ pg. 62
- Region Number Label 
  pg. 8
- ⑧ AC Power Cord ☞ pg. 19

- Cable Box Control Connector (CABLE BOX) r pg. 24
   AV COMPU LINK Connector\*
- \* Not function with this unit. Digital Audio Output Connectors
- (DIGITAL OUT (OPTICAL/COAXIAL)) ☞ pg. 63, 66 ( 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 cooling fan on the rear of the unit may be activated even if
  - the unit is turned off in the following cases; — In the Automatic Satellite Program Recording standby mode
  - (IIF) pg. 50)
     when "AUTO CLOCK" is set to "ON" (IIF) pg. 22)
     (Set "AUTO CLOCK" to "OFF" if you mind the noise of the fan.)

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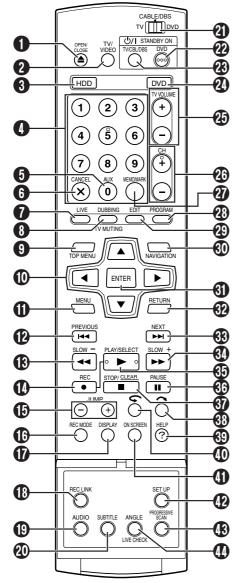




Filename [DR-MH30UJ\_04Name.fm]

INDEX EN 15

# **Remote Control**



- Open/Close Button (▲) IF pg. 10
- 2 TV/VIDEO Button pg. 38, 41
- 3 HDD Button 🖙 pg. 40
- Number Keys pg. 23, 37, 40
- Auxiliary Button (AUX) pg. 48
- G Cancel Button (X (CANCEL)) ☞ pg. 46
   Ive Button (LIVE) ☞ pg. 44
- B Dubbing Button (DUBBING) 🖙 pg. 58
- TV Muting Button (TV MUTING) 🖙 pg. 64
- () Top Menu Button (TOP MENU) 🖙 pg. 28
- $\bigcirc \bigtriangleup \bigtriangledown \lor \lor \lor \lor$  Buttons  $\square$  pg. 21
- Menu Button (MENU) r pg. 28
- Reverse Skip Button (I<) i pg. 28, 44, 45</p> Previous Button (PREVIOUS) IF pg. 31
- Reverse Slow Button (SLOW -) pg. 29
- Jump Button (JUMP +/−) □ pg. 45
- Becording Mode Button (REC MODE) pg. 37, 40
- Display Button (DISPLAY) 🖙 pg. 30, 38
- Automatic Satellite Program Recording Button (REC) LINK) 🖙 pg. 50

- Audio Button (AUDIO) 
  pg. 31
- Subtitle Button (SUBTITLE) pg. 30
- TV/CABLE/DBS/DVD switch 🖙 pg. 21
- 2 DVD Standby/On Button (DVD 心川)
- TV/CBL/DBS Standby/On Button (TV/CBL/DBS ひ/) 🖙 pg. 64
- DVD Button pg. 27
- TV Volume Buttons (TV VOLUME +/-) g pg. 64
- Channel Buttons (CH +/-) pg. 37, 64 Memo Button (MEMO) 
   pg. 52, 55
- Mark Button (MARK) pg. 29 Programing Button (PROGRAM) pg. 46, 48, 49
- Edit Button (EDIT) g pg. 52
- Navigation Button (NAVIGATION) 
   Pg. 51
- Denter Button (ENTER) 17 pg. 21
- Return Button (RETURN) pg. 31, 46
- If Forward Skip Button (►►I) 🖙 pg. 28, 44, 45 Next Button (NEXT) ☞ pg. 31 Ø Forward Search Button (►►) ☞ pg. 28, 44
- Forward Slow Button (SLOW +) IF pg. 29
- I Play Button (►) □ pg. 27, 42 Select Button (SELECT) ir pg. 27, 52
- Pause Button (II) pg. 27, 42
- Stop Button (■) □ pg. 27, 42
   Clear Button (CLEAR) IF pg. 33, 46
- 🚯 Skip Search Button (
  🖚) 🖙 pg. 29, 44
- B Help Button (?) 
   pg. 73
- 16, 32 On-Screen Button (ON SCREEN) 🖙 pg. 16, 32
- Bet Up Button (SET UP) pg. 21
- Progressive Scan Button (PROGRESSIVE SCAN)
- 🖙 pg. 69 Angle Button (ANGLE) (DVD deck only) g pg. 30 Live Check Button (LIVE CHECK) 17 pg. 44

### How To Use

Before use, insert two AA size batteries into the remote control with the polarity ( $\oplus$  and  $\ominus$ ) 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 of JVC and other brands. (🖙 pg. 64)

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

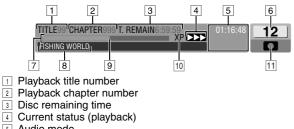
### NOTE:

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 (DVD deck)**

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

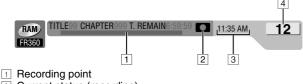


5 Audio mode

© Current received (recording) channel position number (On playback background)

- Bar meter
- 8 Name of title (or play list) currently being played back
- Gurrent playback point
- Recorded mode 10
- 11 Live Memory mode (recording)

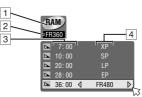
### When recording



- Current status (recording)
- Current time
- 4 Recording channel number

### When pressing REC MODE

(Appears for eight seconds.)



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Disc type

2 Current recording speed Remaining disc time for each recording speed

4 Recording speed

### When pressing • during recording



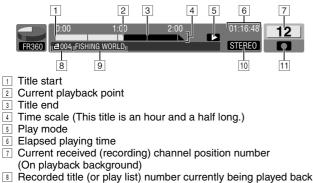
1 Recording time for Instant Timer Recording (ITR) mode

# INDEX EN 17

# **On-Screen Display (HDD deck)**

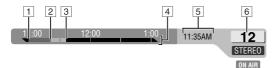
When "SUPERIMPOSE" is set to "AUTO" and ON SCREEN on the remote control is pressed, various operational indicators appear on the TV screen. To clear the operational indicators, press ON SCREEN twice.

### When playing back a recorded title



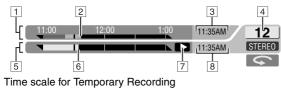
- Name of title currently being played back 9
- Audio mode 10
- 11 Live Memory mode (recording)

### When watching a program on air



- Possible start point from where Live Memory Playback can be performed
- Possible start point from where Live Memory Recording can be 2 performed
  - (Received channel has changed at this point.)
- Currently viewed point
- Time scale 4
- 5 Current time
- 6 Current received channel position number

### When using Live Memory playback



- Current Temporary Recording point
- Current time 3
- Current playback channel position number 4
- Time scale for Live Memory Playback 5
- 6 Current playback point
- Live Memory playback mode
- B Current playback time

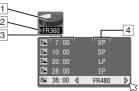
#### 2 11 11:35AM 12 STEREO 11:33AM

- Live Memory Recording point
- 2 Live Memory Recording mode

### When pressing REC MODE

When recording





- HDD capacity graph
- 2 Current recording speed
- Remaining HDD time for each recording speed 3
- 4 Recording speed

### When pressing • during recording



1 Recording time for Instant Timer Recording (ITR) mode

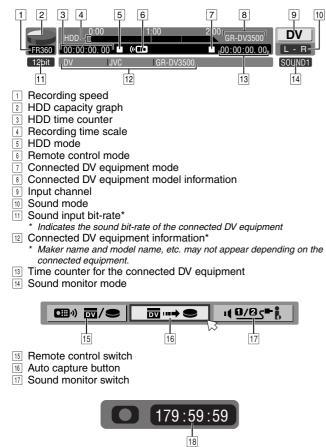
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# 18 EN INDEX

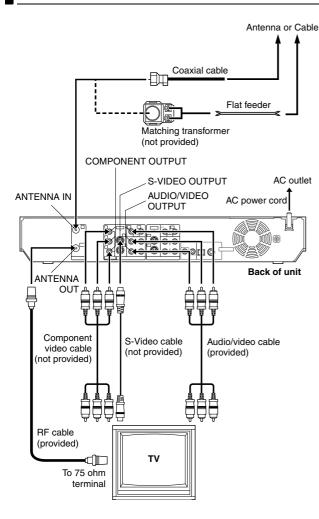
# **On-Screen Display (DV Dubbing)**

# When capturing images from the external DV equipment



18 Elapsed recording time

# **Basic Connections**



# INSTALLING YOUR NEW UNIT EN 19

It's essential that your unit be properly connected.

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

A Make sure the package contains all of the accessories listed in "SPECIFICATIONS" on page 78.

- **2** Place the unit on a stable, horizontal surface.
- **3** Connect the unit to a TV depending on the TV and cables you use.

### AV Connection

### To connect to a TV with AV input connectors -

- 1 Disconnect the TV aerial cable from the TV.
- Connect the TV antenna cable to the ANTENNA IN connector on the rear panel of the unit.
- Connect the provided RF cable between the ANTENNA OUT connector on the rear panel of the unit and the TV's antenna terminal.
- Connect the provided audio/video cable between the AUDIO/ VIDEO OUTPUT connectors on the rear panel of the unit and the TV's audio/video input connectors.

### S-Video Connection

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

- 1 Perform 1 3 in "AV Connection".
- 2 Connect the unit's S-VIDEO OUTPUT connector to the TV's S-VIDEO input connector.
- 3 Connect the unit's AUDIO OUTPUT 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 OUTPUT 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 "AV Connection"
- Connect the unit's COMPONENT OUTPUT connectors to the TV's component video input connectors.
- Connect the unit's AUDIO OUTPUT 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 OUTPUT 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" (IF pg. 69).

**4** Plug the end of the AC power cord into an AC outlet. This unit performs Plug & Play Set automatically. (IFP pg. 20)

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

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



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# 20 EN INITIAL SETTINGS

# Plug & Play Set

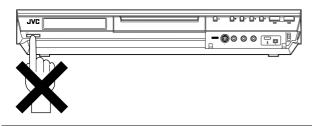
# Auto Clock Set/Auto Tuner Set

This unit sets the clock and tuner channels automatically when AC power cord is first connected to an AC outlet. The antenna cable must be connected for the Plug & Play setting.

The time and date can be set automatically by the clock setting data transmitted from one of the regular TV broadcast channels. We call this TV channel the "host channel" and it is a PBS channel in your area.

### **ATTENTION:**

- If you use a cable box, Plug&Play will not function; set the clock and tuner channels separately. (IFP pg. 22 23)
  Depending on areas or reception conditions, the unit may not
- Depending on areas or reception conditions, the unit may not receive the Auto clock setting data from the PBS channel. If this function is taking a considerable amount of time, it may be necessary to perform the Semiauto or Manual Clock Set procedure.



### INFORMATION

- If "AUTO CLOCK" is set to "ON" (IFP pg. 22), the clock will be adjusted automatically by the host channel every hour (except 11:00 PM, midnight, 1:00 AM and 2:00 AM) using the incoming PBS channel clock setting data. (This automatic clock adjustment can only be performed when the unit is turned off. The clock will be adjusted just on these hours on the time displayed on the front display panel, not on the actual real time.) The default setting of "AUTO CLOCK" is "ON". (IFP pg. 22)
- If the memory backup fails, because a power outage occurs or because the AC power cord is unplugged, Plug & Play will be performed when power is restored to the unit.

### What to do if Plug & Play setting failed

- If an incorrect time is displayed on the front display panel, you may be receiving the clock setting data of a PBS channel from an adjacent time zone, or an incorrect PBS channel from a cable TV system. In this case, perform "Semiauto Clock Set" (III) pg. 22) or "Manual Clock Set" (III) pg. 22).
  If "-----" appears on the front display panel, your antenna cable
- It "---- appears on the front display panel, your antenna cable may not be connected to the unit or there may not be a Host PBS signal available in your area. Ensure that the antenna cable is connected correctly. Then turn on and off the unit; the Plug & Play setting will be automatically reactivated. If Plug & Play setting is not performed though the antenna cable is connected correctly, perform "Manual Clock Set" (IP pg. 22) and "Auto Channel Set" (IP pg. 23).

Connect the antenna cable to the unit. (IFF pg. 19) Then connect the AC power cord to an AC outlet. Do not turn on the unit. The clock and tuner channels will be set automatically.

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

#### NOTES:

- Auto Clock Set is performed first.
- "AUTO" blinks on the front display panel during Auto Clock Set.
  Auto Channel Set is performed next. Auto Channel Set scans all the channels that are receivable by your unit. During Auto Channel Set, the channel numbers are displayed as they are scanned and set.
- When Plug & Play setting has been complete successfully, the correct clock time is displayed. If you perform Plug & Play setting successfully, there is no need to perform "Clock Set" (L<sup>∞</sup> pg. 22) and "Tuner Set" (L<sup>∞</sup> pg. 23). If, however, you want to add or delete channels, refer to "Manual Channel Set" (L<sup>∞</sup> pg. 23).

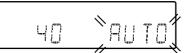
### **During Auto Clock Set**

### "AUTO" blinks.



### **During Auto Channel Set**

The channel numbers are displayed and "AUTO" blinks as they are scanned and set.



### **Plug&Play Completed**

The current time is displayed.



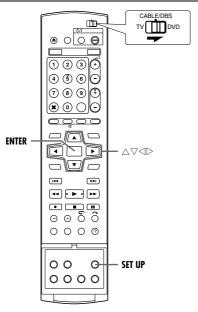


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# Language

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



# INITIAL SETTINGS EN 21

This unit offers you the choice to view on-screen messages in 3 different languages.

- Press **SET UP** to access the Main Menu screen.
- **2** Press  $\triangleleft \triangleright$  to select "FUNCTION SET UP", then press  $\bigtriangledown$ .
- **3** Press  $\lhd \triangleright$  to select "DISPLAY
- SET", then press  $\bigtriangledown$ .

**On-screen Language Set** 

**4** Press  $\triangle \nabla$  to select "ON SCREEN LANGUAGE", then

desired language, then press

press ENTER. 5 Press  $\bigtriangleup \nabla$  to select your

ENTER.

DVD VIDEO SET UP HDD/DVD SET UP FUN	CTION SET UP INITIAL SET UP		
RECORD/PLAY DISPLAY SET VI	DEO IN/OUT		
SUPERIMPOSE	AUTO		
BLUE BACK	ON		
DIMMER	BRIGHT		
POWER SAVE	OFF		
ON SCREEN LANGUAGE	ENGLISH		
SET UP EXIT SELECT WITH [ 4	► ] THEN PRESS [ENTER] D EXIT		

HDD/DVD SET UP FUNCTION SET UP INITIAL SET UP

LOCK DIS

ITPUT P/

**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  $\triangleleft \triangleright$  to select "DVD VIDEO SET UP", then press **ENTER**.

**3** Press  $\lhd \triangleright$  to select

"LANGUAGE SET", then press ENTER.

**4** Press  $\triangle \nabla$  to select "MENU LANGUAGE", then press **ENTER**.

**5** Press  $riangle \nabla$  to select your

desired language, then press

ENTER.

- See "Language Code List"
- (🖙 pg. 79).

**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.

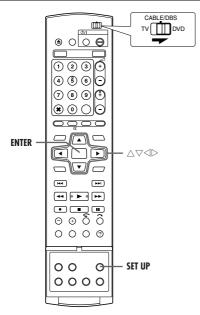
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# **22** EN INITIAL SETTINGS

# **Clock** Set

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

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



# Semiauto Clock Set

You can change the host channel/D.S.T. (Daylight Saving Time)/ time zone setting manually.

### NOTE:

The time set previously will be erased when "AUTO CLOCK", "HOST CH", "D.S.T." or "TIME ZONE" setting is changed.

Press SET UP to access the Main Menu screen.

**2** Press  $\lhd \triangleright$  to select "INITIAL SET UP", then press ENTER.

3 Press ⊲ ▷ to select "CLOCK

SET UP", then press ENTER. **4** Press  $\triangle \nabla$  to select "AUTO CLOCK", then press ENTER. Press  $\triangle \nabla$  to select "ON", then

DVD VIDEO SET UP HDD TUNER SET UP S	D/DVD SET UP	_	TION SET UP	INITIAL SET UP
AUTO CLOCK			0	N
HOST CH			AU	TO
D. S. T.			AU	TO
TIME ZONE			AU	TO
SET UP	SELECT WITH		) THEN PRES	

**5** Press  $\triangle \nabla$  to select "HOST CH", then press **ENTER**.

Press  $riangle \nabla$  to select "AUTO" or the

desired PBS channel number, then press ENTER.

### NOTE:

press ENTER.

Some PBS channels do not transmit clock setting data.

**6** Press  $\triangle \nabla$  to select "D.S.T", then press **ENTER**. Press  $\triangle \nabla$  to select the desired setting, then press **ENTER**.

- **AUTO**: Select if you want to adjust your unit's clock automatically by the incoming signal from the host channel. Be sure to select the correct time zone manually in step **7**.
- ON: Adjustment will be made by the built-in clock itself.

OFF: Select when Daylight Saving Time does not apply to you.

- **7** Press  $\triangle \triangledown$  to select "TIME ZONE", then press **ENTER**. Press  $\triangle \triangledown$  to select "AUTO" or the desired time zone, then press **ENTER**.
- Each time you press △▽, the time zone changes as follows:
   ↔AUTO↔ATLANTIC↔EASTERN↔CENTRAL↔ MOUNTAIN↔PACIFIC↔ALASKA↔HAWAII↔ (back to the beginning)

If an incorrect time is displayed by the Plug & Play function, you may be receiving the clock setting data of a PBS channel from an adjacent time zone or from an incorrect PBS channel from a cable TV system. If you selected "AUTO" for the host channel in step 5, be sure to select the correct time zone manually.

Masterpage:Left+

8 Press SET UP to complete the setting.

### **IMPORTANT:**

Turn off the unit after performing Semiauto Clock. "AUTO" will appear on the front display panel while the clock is being set. The current clock time will appear automatically when the clock setting is complete.

### **Auto Daylight Saving Time**

This function enables automatic adjustment of the unit's clock at the start and end of Daylight Saving Time. With Auto DST activated, —

 on the first Sunday of April at 2:00 AM, the clock is adjusted to 3:00 AM.

— on the last Sunday of October at 2:00 AM, the clock is adjusted to 1:00 AM.

### NOTE:

Timer recording may not function correctly at the time Daylight Saving Time is adjusted.

### Manual Clock Set

- Press **SET UP** to access the Main Menu screen.
- **2** Press  $\triangleleft \triangleright$  to select "INITIAL SET UP", then press **ENTER**.
- 3 Press ⊲ ▷ to select "CLOCK

SET UP", then press ENTER.



**4** Press  $\triangle \nabla$  to select "AUTO CLOCK", then press **ENTER**. Press  $\triangle \nabla$  to select "OFF", then press **ENTER**.

**5** Press  $\triangle \nabla$  to select "TIME", then press **ENTER**. Press  $\triangle \nabla$  until the desired time appears,

then press ENTER to start clock.Set the date and year in the same

- way.
- Holding △∇ changes the time in 30-minute intervals, or changes the date in 15-day intervals.

**6** Press  $\triangle \nabla$  to select "D.S.T.", then press **ENTER**. Press  $\triangle \nabla$  to select the desired setting, then press **ENTER**.

**ON**: Adjustment will be made by the built-in clock itself.

OFF: Select when Daylight Saving Time does not apply to you.

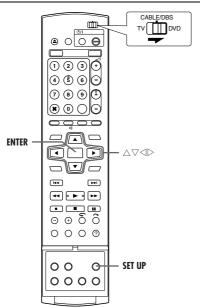
**7** Press **SET UP** to complete the setting.

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# **Tuner Set**

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



# INFORMATION

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

# Auto Channel Set

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

- Press SET UP to access the Main Menu screen.
- **2** Press  $\triangleleft \triangleright$  to select "INITIAL SET UP", then press **ENTER**.
- **3** Press  $\lhd \triangleright$  to select "TUNER SET UP", then press **ENTER**.

**4** Press  $riangle \nabla$  to select "AUTO CH SET", then press ENTER. You can automatically set the receivable channels in your area in the order

 When Auto Channel Set is complete, "SCAN COMPLETED" appears on the TV screen.

of their frequencies.

TUNER SET UP SET UP -+ 11 12 13 NEL SET SCA

- If the scan was unsuccessful. "SCAN COMPLETED-NO SIGNAL-" appears on screen. Check the connections and start again.
- **5** Press **SET UP** to complete the setting.

# INITIAL SETTINGS EN 23

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

- Press SET UP to access the Main Menu screen.
- **2** Press  $\triangleleft \triangleright$  to select "INITIAL SET UP", then press **ENTER**.
- **3** Press  $\triangleleft \triangleright$  to select "TUNER SET UP", then press **ENTER**.
- **4** Press  $riangle 
  abla \$  to select "MANUAL CH SET", then press **ENTER**.

### 5 Add or skip the desired channels.

To add channels

**Manual Channel Set** 

- 1 Press  $riangle \nabla$  to select "CH", then press ENTER.
- 2 Press  $riangle \nabla$  to select a channel number you want to add, then press ENTER.  $\exists$  Press  $riangle \nabla$  to select "ADD/SKIP",



- then press ENTER. I Press △▽ to select "ADD", then press ENTER.
- 5 Repeat 2 4 to add other channels.

### To skip channels

- Press △▽ to select "CH", then press ENTER.
   Press △▽ to select a channel number you want to skip, then press ENTER.
- Press  $\triangle \nabla$  to select "ADD/SKIP", then press **ENTER**.
- $\overline{4}$  Press  $\triangle \nabla$  to select "SKIP", then press ENTER.
- 5 Repeat 2 4 to skip other channels.
- 6 Press SET UP to complete the setting.

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# **24** EN *INITIAL SETTINGS*

# Cable Box and/or DBS Receiver Control Setting

The following procedure is required if you receive your TV channels through a cable box (descrambler) and/or if you receive satellite channels through DBS (Direct Broadcast Satellite) receiver. The Controller allows the unit to automatically switch the cable box and/or DBS receiver's channels during timer recording.

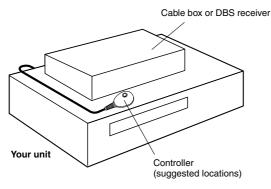
### NOTES:

- The Controller is effective for "VCR Plus+" Timer Programing" (IP pg. 46), or "Manual Timer Programing" (IP pg. 48).
- When connecting your cable box, refer to its instruction manual.

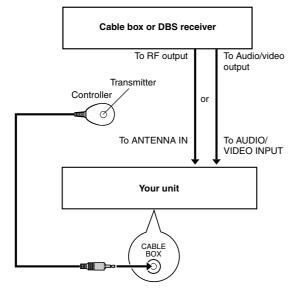
# **Installing Controller**

I If both a cable box and a DBS receiver are used, position the Controller so its signal reaches the receiving windows of both the cable box and DBS receiver.

**2** Fix securely using the adhesive strip attached on the back of the Controller.



### **3** Connect the controller to the unit.



# If your cable box or DBS receiver does not have audio/video output connectors

Connect the RF output connector on the cable box or DBS receiver to the ANTENNA IN connector on the rear of your unit.

# If your cable box or DBS receiver has audio/video output connectors

Connect the audio/video output connectors on the cable box or DBS receiver to the AUDIO/VIDEO INPUT connectors on the rear of the unit.

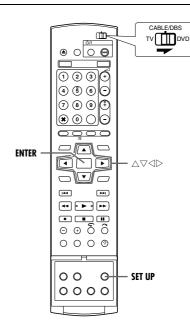
 If both a cable box and a DBS receiver are used, it is recommended that you connect the DBS receiver to your unit's AUDIO/VIDEO INPUT connectors and the cable box to your unit's ANTENNA IN connector.

**4** Connect the Controller to the CABLE BOX connector on the rear panel.

# **Setting Brand And Channel**

After installation, set the cable box and/or DBS receiver's brand and channels correctly; otherwise, the Controller cannot work correctly.

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

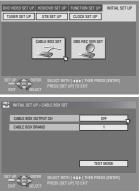


Turn on the cable box and/or DBS receiver.

- **2** Press **SET UP** to access the Main Menu screen.
- **3** Press  $\triangleleft \triangleright$  to select "INITIAL SET UP", then press  $\bigtriangledown$ .
- **4** Press  $\triangleleft \triangleright$  to select "STB SET UP". then press  $\bigtriangledown$ .
- 5 Press △▽ to select "CABLE

BOX SET" or "DBS RECEIVER SET", then press **ENTER**.

**6** Press  $\triangle \nabla$  to select "CABLE BOX OUTPUT CH" or "DBS RECEIVER OUTPUT CH", then press **ENTER**.



INITIAL SETTINGS EN 25

### 7 Select the output channel.

Your selection depends on how the cable box and/or DBS receiver is connected to your unit.

- If the cable box or DBS receiver is connected to your unit's ANTENNA IN connector on the rear panel, press  $\Delta \nabla$  to select the channel number representing the cable box's output (CH2 - CH9), then press ENTER
- If the cable box or DBS receiver is connected to your unit's AUDIO/VIDEO Input connectors on the front panel, press  $\triangle \nabla$  to select "F-1", then press ENTER.
- If the cable box or DBS receiver is connected to your unit's AUDIO/VIDEO INPUT connectors on the rear panel, press riangleq to select "L-1" or "L-2", then press ENTER.
- If you do not use a cable box or DBS receiver, press △▽ to select "OFF", then press ENTER.

8 Press △▽ to select "CABLE BOX BRAND" or "DBS RECEIVER BRAND", then press **ENTER**. Press  $\triangle \nabla$  to select the brand code from the following list, then press ENTER.

**9** Press  $\triangle \nabla$  to select "TEST MODE", then press **ENTER**.

CABLE BOX BRAND	CODE
ARCHER	1, 5, 17
CABLETENNA	1, 17
CABLEVIEW	15, 16, 17, 21, 25
CITIZEN	15, 16, 17, 21, 25
CURTIS	2, 8
DIAMOND	1, 17
GC BRAND	15, 16, 17, 21, 25
GEMINI	15
GENERAL INSTRUMENTS	1, 4, 6, 11, 12, 15, 28
HAMLIN	10, 18, 23
JASCO	15
JERROLD	1, 4, 6, 11, 12, 15, 28
NOVAVISION	2, 8
OAK	7, 20
PANASONIC	13, 14
PULSER	15, 16, 17, 21, 25
RCA	13, 14
REGAL	10, 18, 23
REMBRANDT	1, 16, 17
SAMSUNG	5, 16, 24
SCIENTIFIC ATLANTA	2, 8
SIGMA	7, 20
SLMARX	5, 16, 17, 24, 25
SPRUCER STARGATE	13, 14
TELEVIEW	5, 15, 16, 17, 21, 24, 25 5, 16, 24
TOCOM	1, 4, 16
UNIKA	1, 4, 10
UNIVERSAL	16, 17, 25
VIDEOWAY	3, 9, 22
ZENITH	3, 9, 22
	0, 0, 22
DBS RECEIVER BRAND	CODE
	51

JVC (DISH Network)	51
ECHOSTAR (DISH Network)	51
SONY (DSS)	41
RCA (DSS)	40
· · ·	

### For cable box

#### If the cable box's channel changes to 9, setting is complete. Press ENTER and "CABLE BOX INITIAL SET UP > CABLE BOX S

CONTROL IS ON" appears on the screen for about 5 seconds, then the screen in step 5 appears.

# If the cable box's channel does

not change to 9;  $\square$  Press  $\triangleleft \triangleright$  to select "NO", then

- press ENTER.
- Provide the steps 8 9 until the cable box's channel changes to 9 by entering another code.
- If the channel does not change after going through all the code numbers listed for your model of cable box, then try all the other numbers.

# ■ For DBS receiver

#### If the DBS receiver's channel changes to the channel listed below for your brand, setting is complete.

Press ENTER and "DBS RECEIVER CONTROL IS ON" appears on the screen for about 5 seconds, then press ENTER. The screen in step 5 appears. JVC

-



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If the DBS receiver's channel does not change as shown above:

**BCA** 

Press  $\triangleleft \triangleright$  to select "NO", then press **ENTER**.

100

100

## 2 Repeat steps 8 – 9.

**ECHOSTAR** 

### NOTES:

- The Controller may not work with all types of cable box or DBS receiver.
- If your cable box does not respond to any code between 1 and 28, you cannot use the Controller to change cable box channels. In this case, make sure to leave the cable box turned on and tuned to the proper channel before the scheduled start time of timer recording. Contact your cable company about the possibility of exchanging your current cable box with the one compatible with your unit.
- If your DBS receiver does not respond to the code, you cannot use the Controller to change satellite channels. In this case, make sure to leave the DBS receiver turned on and tuned to the proper channel before the scheduled start time of timer recording.
- The unit can only change the cable box or satellite channel through the Controller during timer recording.
- If your cable box and/or DBS receiver cannot be operated with a remote control (because it has no receiving window), you cannot use the Controller to change its channels. Make sure to leave the cable box and/or DBS receiver turned on and tuned to the proper channel before the scheduled start time of timer recording.
- If the unit's memory backup expires because of a power failure, set the cable box and/or DBS receiver output channels and brands again.
- For customers in U.S.A .: If you are unable to set the Controller, contact JVC toll free at 1-800-252-5722.

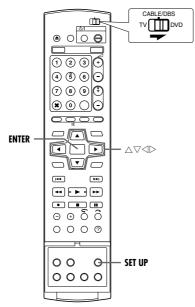
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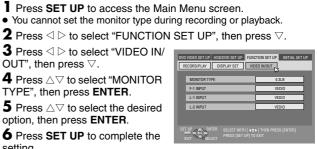
# 26 EN INITIAL SETTINGS

# **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/DBS/DVD switch to DVD.





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

MONITOR TYPE — 4:3LB / 4:3PS / 16:9 AUTO / 16:9 FIX

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

OUT", then press  $\nabla$ .

setting

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.





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# BASIC OPERATIONS ON DVD DECK EN 27

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

Load a disc.

JPEG

- For details, refer to "Placing A Disc" (IF pg. 10).
- 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" ((27 pg. 8). If "CAN NOT PLAY BACK DISC UNDER CURRENT SETTING"
- appears on the TV screen, refer to "Parental Lock" (IF pg. 36).
- 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" (17 pg. 31) or "Locating A Desired Scene Using The DVD Menu" (IF pg. 28).
- The Library Database Navigation also enables you to search and select the desired titles. (IF pg. 52)
- 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 program received with the unit's tuner resumes on the TV screen.
- When a playback-only disc is played, playback stops and the still image at the time you press ■ remains on the TV screen. Pressing ■ again resumes a program received with the unit's tuner.
- If A is pressed during playback, playback stops, then the disc tray opens

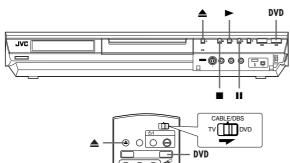
### NOTES:

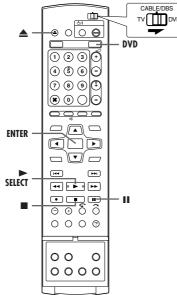
- When the Library Database Navigation screen appears, choose a thumbnail image of the desired title on the TV screen, then press SELECT(►) or ENTER. (IIF pg. 52) • It is not possible to playback the DVD disc recorded in 96 kHz on
- DVD during recording or Live Memory Playback on HDD.



Basic Playback

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





### **ATTENTION:**

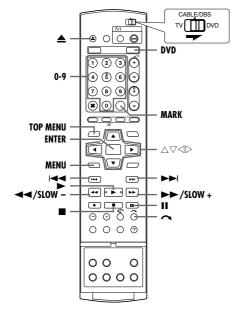
- It takes approximately 30 seconds to read a disc depending on the type and condition of the disc since this unit is multi-disc compatible (DVD-RAM, DVD-RW, DVD-R). It may even take
- several minutes when a disc is dirty, scratched or warped. • It may take a few seconds to start playback. This is not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

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# **28** EN BASIC OPERATIONS ON DVD DECK

# **Playback Features**

- Turn on the unit. .
- Turn on the TV and select the AV mode.
- Slide the TV/CABLE/DBS/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 DVD DVD DVD VCD Audio RAM R RW VIDEO SVCD CD
---

DVD VIDEO discs may have top menu and disc menu.

#### Top menu

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

### Disc menu

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  $\triangle \bigtriangledown \triangleleft \triangleright$  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. NOTE:



### When " $\odot$ " appears on the TV screen

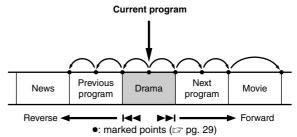
in step 1, the disc does not have a top menu or disc menu.

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



- Pressing ►►I locates the start point of the item or skips the item for forward direction, then resumes playback. • Pressing I del locates the start point of the item or skips the item for
- reverse direction, then resumes playback.

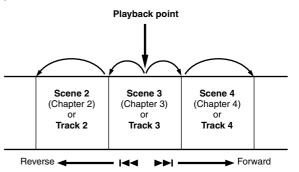
### When a DVD-RAM/RW/R disc is played



### Example:

To locate the beginning of the next item, press **>>**I once. To locate the beginning of the current item, press I To locate the beginning of the previous item, press I times.

When a DVD VIDEO, Audio CD or Video CD/SVCD disc is played



#### Example:

To locate the beginning of the next item, press **>>**I once. To locate the beginning of the current item, press I

### High-Speed Search



During playback, press ►► for forward high-speed search, or ◄◄ for reverse high-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  $\triangleright \triangleright$  and  $\triangleleft \triangleleft$ . (Audio is active also during high-speed search.) You cannot perform slow motion for each direction.

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Masterpage:Right+ -4

# 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



- Press II to pause during playback
- **2** Press SLOW ( $\triangleleft \triangleleft$ ) or SLOW + ( $\triangleright \triangleright$ ) for 2 or more seconds. Each press of SLOW – (◄◄) or SLOW + (►►) increases the slow
- motion speed for each direction (from 1/16 to 1/2 times the normal speed)
- Slow motion for reverse direction cannot be performed with Video CD/SVCD discs.

### Skip Search



During playback, press

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

### **Resume Function**

DVD Ram	DVD R	DVD RW	DVD Video	VCD SVCD	Audio CD	MP3	JPEG	
------------	----------	-----------	--------------	-------------	-------------	-----	------	--

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

- Be sure to set "RESUME" to "ON" or "DISC RESUME". (IF pg. 68)
- Press during playback to memorize a resume point.
- The unit enters Resume Stop mode and memorizes 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". (🖙 pg. 68)
- 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 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, et

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

- Set "RESUME" to "OFF". (13 pg. 68)
- 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.

# BASIC OPERATIONS ON DVD DECK EN 29

### NOTES:

- "DISC RESUME" setting works on DVD VIDEO, VCD, SVCD and already finalized 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". (IF pg. 68)
- If you stop the playback of a disc for which a resume point has already been memorized, the memory will be updated with the new resume point.
- After the unit has memorized the resume points for 30 discs, remembering a new resume point will cause the unit to delete the oldest memorized point. Stopping playback of a disc for which a resume point is already stored may change the order in which the points are stored. This may potentially change the order in which points are deleted.
- When the unit memorizes a resume point for a disc, it also
- remembers audio language, subtitle and angle settings.
  This function may not work for some Video CD/SVCDs.
  When "RESUME" is changed to "ON" or "OFF" (LF pg. 68), resume points of the discs memorized with "RESUME" set to "DISC RESUME" will be cleared.
- Resume points are memorized for each side of a double-sided disc.
- When you switch to HDD during playing back CD, playback stops. The Resume Function doesn't work, when you switch to DVD after that 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/R 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 Idd or I when you play back the disc.

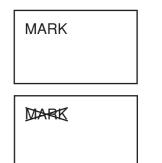
To delete the marked positions: While paused, press I◄◄ or ►►I to locate a marked position you want to

delete, then press MARK. Crossed "MARK" appears on the TV

screen, and the marked position is deleted.

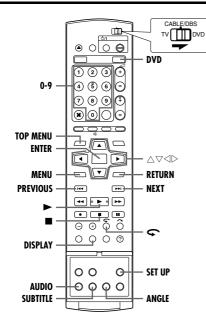
### NOTES:

- · When a monaural program changes to a stereo program while recording, a mark signal is automatically recorded.
- · When a DVD-R/RW (Video mode) disc is finalized, marked points marked before finalizing will be deleted, and programs will be divided automatically into "chapters" approximately every 5 minutes. (🖙 pg. 72)



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# **30** EN <u>BASIC OPERATIONS ON DVD DECK</u>



### **Checking The Time Information**



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

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

### DVD-RAM/DVD-R/DVD-RW

### **During recording**

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

- \* only discs before finalizing
- Clock time is displayed only when a recordable disc is played back. During playback
- Each title elapsed time  $\rightarrow$  Current title elapsed time  $\rightarrow$
- Disc remaining time\*  $\rightarrow$  (back to the beginning)

### \* only discs before finalizing

### In stop mode or during playback

- In FR mode, it is possible to set recording time in detail using < ▷.</li>
   (□ pg. 39)
- It is not possible to switch the recording mode during playback or while recording.

### DVD VIDEO/Video CD/SVCD/Audio CD During playback

Current track elapsed time  $\rightarrow$  Current track remaining time  $\rightarrow$  Total elapsed time  $\rightarrow$  Total remaining time  $\rightarrow$  (back to the beginning)

### In stop mode

 $0:00 \rightarrow$  Playback time of track  $1 \rightarrow 0:00 \rightarrow$  Total length of a disc  $\rightarrow$  (back to the beginning)

#### NOTE:

When a PBC-compatible Video CD/SVCD disc is loaded, deactivate the PBC function. ( $\ensuremath{\mathbb{I}}\xspace$  gg. 31)

### Angle Selection



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.

B 41/80,

contained.

When 3 scene angles are

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

**1** Press **ANGLE** during playback. The angle selection display

appears on the TV screen. **2** Press **ANGLE** or  $\lhd \triangleright$  to select

your desired angle.Each time you press ANGLE or

 $\triangleleft \triangleright$ , the angle changes.

- When "Q" 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.Each time you press SUBTITLE,

When 3 subtitle languages are contained.

..... 41 / 8 > ENGLISH

- the subtitle display is switched on and off.
- **2** Press  $\lhd \triangleright$  to select your desired language.
- To clear the subtitle selection display, press ENTER.

### NOTES:

- 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.

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## 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.



contained.

When 3 audio languages are

selection display appears. **2** Press **AUDIO** or  $\lhd \triangleright$  to select your desired audio language/

sound.

Each time you press AUDIO or <<p>○
 ▷, 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.
- It is only possible to select the audio language in stop mode. The audio language cannot be selected during playback.

### **Audio Channel Selection**



When watching bilingual programs or playing discs on which you recorded bilingual or stereo programs, 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. (IFP pg. 69)
- Each time you press **AUDIO**, the audio channel

changes.

TRACK	USE	
On-Screen Display		
<b>())) (</b> L + R <b>)</b>	For stereo discs	
<b>())) (</b>	For audio of left channel	
<b>())) (</b> R <b>)</b>	For audio of right channel	

### NOTE:

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. (IIF pg. 68)

# BASIC OPERATIONS ON DVD DECK EN 31

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

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 program recorded on a DVD-RAM or DVD-RW (VR mode) disc. (IF pg. 66) 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.
- 2 Press  $\triangleleft \triangleright$  to select "DVD VIDEO SET UP", then press  $\bigtriangledown$ .
- 3 Press  $\triangleleft \triangleright$  to select "AUDIO OUTPUT", then press  $\bigtriangledown$ .
- 4 Press  $\triangle \nabla$  to select "DIGITAL AUDIO OUT", then press **ENTER**.
- Fress  $\triangle \nabla$  to select "PCM ONLY", then press **ENTER**.
- (🖙 pg. 67)
- Press SET UP to complete the setting.
- 7 Press AUDIO to select the desired audio channel.

# **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. 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 (▶►) advances to the next page.
- Pressing **PREVIOUS** (I
- You can return to the menu by pressing **RETURN**.
- The method of the operation is different depending on the disc. **NOTES:**

#### If you want to playback a PBC-compatible Video CD/SVCD disc without activating the PBC function, start playback in stop mode by using the **number keys**, instead of the ► button, to choose the track, then press ENTER.

 To activate the PBC function when a PBC-compatible Video CD/ SVCD disc is being played back without the PBC function, press TOP MENU, or press ■ then press ►.

# To Move Back The Playback Position Slightly (One Touch Replay Function)

DVD DVD RAM R	DVD RW	DVD Video	VCD SVCD	Audio CD	MP3	JPEG	
------------------	-----------	--------------	-------------	-------------	-----	------	--

You can move back the playback position slightly.

Press Ϛ.

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

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# 32 EN BASIC OPERATIONS ON DVD DECK

# sing The On-screen Bar

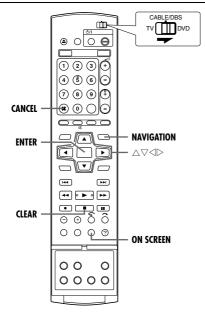


The on-screen bar allows you to control various playback functions. Some of the functions operated on Navigation Menu can be controlled on the On-screen bar.

### **ATTENTION:**

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

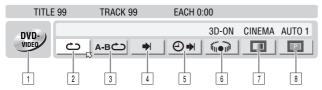
Be sure to clear Library Database Navigation screen by pressing NAVIGATION.



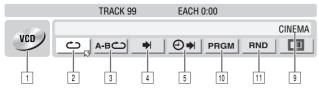
# How To Access The On-screen Bar

Press ON SCREEN twice whenever a disc is loaded.

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



### Video CD/SVCD



### JPEG disc

TRACK 99 GROUP 99 EACH 179:59 5 SEC CINEMA ¢ D 1 2 4 12

### Disc type.

- Select this for Repeat Playback. (17 pg. 33)
- 3 Select this for A-B Repeat Playback. (17 pg. 33)
- 4 Select this for search function. (1) pg. 33)
- 5 Select this for time search function. (17 pg. 34)
- 6 Select this to switch Simulated Surround Effect function. (🖙 pg. 34)

Masterpage:Left+

- Select this for Picture Control function. (1) pg. 34)
- B Select this to switch picture source type. (IF pg. 35)
- 9 Current status area for the selected item.
- 10 Select this for Program Playback. (IF pg. 35)
- 11 Select this for Random Playback. (17 pg. 35)
- 12 Select this to control the switching interval of the slide show. (🖙 pg. 35)

### 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  $\square$ .

TITLE	99	TRACK 99	EACH	0:00		
DVD- )				3D-ON	CINEMA	AUTO 1
VIDEO	٢	А-ВСО 🔿	⊴⇒			P

**2** Press  $\triangleleft \triangleright$  to select " $\blacksquare$ ", then press **ENTER**. The pop-up window appears under the selected item.

TITLE	99	TRACK 99	EACH 0:00	
DVD- )			3D-ON CINEMA AUTO 1	
VIDEO	ථ	А-ВСО 🔿	●♥ 📦 🗖 🛯	

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

#### TITLE 99 EACH 0:00 TRACK 99



### To clear the on-screen bar

Press ON SCREEN.

NOTE:

See the corresponding pages for details on each menu item.



BASIC OPERATIONS ON DVD DECK EN 33

# **Repeat Playback**



Press ON SCREEN twice to access the on-screen bar.

**2** Press  $\lhd \triangleright$  to select " $\circlearrowright$ ", then press ENTER. The pop-up window appears under the selected item.

TITLE	99	TRACK 99		EACH 0:	00		
DVD-)					3D-ON	CINEMA	AUTO 1
VIDEO	ථ	А-вС	•	⊕⇒			P

**3** Press riangle 
abla riangle 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. GROUP REPEAT\*: The current group is played back repeatedly. TRACK REPEAT\*: The current track is played back repeatedly.

- "GROUP REPEAT" cannot be selected for Audio CD and Video CD/SVCD discs.
- "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
- function Repeat Playback may not work properly depending on the type of the disc being used.

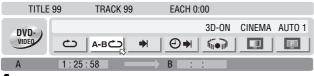
### A-B Repeat Playback



### **During playback**

- Press ON SCREEN twice to access the on-screen bar.
- **2** Press  $\triangleleft \triangleright$  to select "**A-B**  $\bigcirc$ ".

**3** Press ENTER at the beginning of the desired part you want to repeat (point A). The elapsed playing time of the point A appears.



4 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.

•	,					
TITLE	99 TF	RACK 99	EACH 0	:00		
DVD- )				3D-ON	CINEMA	AUTO 1
VIDEO	<u>A-I</u>		⊕⇒			P
А	1:25:58		→ B 1:4	0 : 00		

### To clear the on-screen bar

# To cancel A-B Repeat Playback

Press  $\triangleleft \triangleright$  to select "**A-B**", then press **ENTER**.

### NOTES:

Press ON SCREEN.

- 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 Program and Random Playback
- "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
- Press ON SCREEN twice to access the on-screen bar.
- **2** Press  $\triangleleft \triangleright$  to select " $\blacklozenge$ ", then press ENTER.
- **3** Press  $riangle 
  abla \$  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. ("TITLE SEARCH" only is selectable while stopped.)

### For JPEG, MP3

"GROUP SEARCH" or "TRACK SEARCH" is selectable.

For Video CD/SVCD, Audio CD

"TRACK" is selectable.

G	ROUP 99	TRACK 99	EACH 179:59	
nvn-			5	CINEMA
DVD- VIDEO	<u> </u>	а-в¢)	► CON CON	
			CHAPTER SEARCH	

**4** Press the **number keys** to enter the desired item number, then press ENTER.

Playback starts from the selected section.

Examples:

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

### If you have specified a wrong selection

Press CANCEL (X) or CLEAR (■) to clear the wrong number, then enter the correct one before you press ENTER in this step.

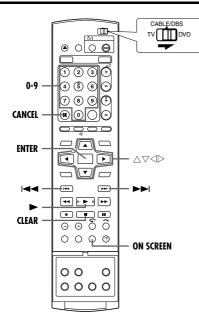
To clear the on-screen bar Press ON SCREEN.

## 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.

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### **Time Search**



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

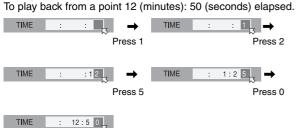
Press ON SCREEN twice to access the on-screen bar.

**2** Press  $\triangleleft \triangleright$  to select " $\bigcirc \clubsuit$ ", then press **ENTER**. The pop-up window appears under the selected item.

TITLE	99	TRACK 99	EACH 0:00
DVD- )			CINEMA AUTO 1
VIDEO	Ċ	А-ВСО 🔿	

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

Example:



### If you have specified a wrong selection,

Press **CANCEL** (X) (for the last entered number) or **CLEAR** (■) (for whole numbers) to clear the wrong number, then enter the correct one(s) before you press **ENTER** in this step.

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

#### NOTES:

- When "O" is displayed on the TV screen in step 3, you have selected a point that excesses the recording time of the disc.
- Some DVD VIDEO discs do not contain time information, and it is 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**

HDD	DVD Ram	DVD R	DVD RW	DVD Video	VCD SVCD	Audio CD	MP3	JPEG
-----	------------	----------	-----------	--------------	-------------	-------------	-----	------

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.

- Press ON SCREEN twice to access the on-screen bar.
- **2** Press  $\triangleleft \triangleright$  to select "||| = ||||", then press ENTER.
- Above the selected item, "3D-ON" appears and Simulated Surround Effect is activated.
- Each time you press ENTER, "3D-ON" appears and disappears alternately.

TITLE	99	TRACK 99		EACH 0:	00		
DVD- )					3D-ON	CINEMA	AUTO 1
VIDEO	උ	دے А-В	•	⊕⇒∣			P

#### 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 OUT connectors.
- When Simulated Surround Effect is activated, the settings of "ANALOG AUDIO OUT" and "D. RANGE CONTROL" are disabled. (IZP pg. 67)

# Adjusting The Picture Quality



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

Press ON SCREEN twice to access the on-screen bar.

**2** Press  $\lhd \triangleright$  to select "**[]**", then press **ENTER**. The pop-up window appears under the selected item.

TITLE 99		TRACK 99	)	EACH 0:00	
DVD- )				CINEMA	A AUTO 1
VIDEO	ථ	А-ВСО	•	④♥ 🔲	P

**3** Press  $\triangle \nabla$  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-colored surfaces such as cartoons.

SOFT: Select this option when too much noise appears.

To clear the on-screen bar Press ON SCREEN. DR-MH30UJ\_00.book Page 35 Monday, July 12, 2004 3:17 PM

Masterpage:Right+

MP:

JPEG

### **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).

Press **ON SCREEN** twice to access the on-screen bar.

**2** Press  $\triangleleft \triangleright$  to select " $\blacksquare$ ", then press **ENTER**. The pop-up window appears under the selected item.

TITLE	99 TRACK	99 EA	CH 0:00	
DVD- )			3D-ON	CINEMA AUTO 1
VIDEO	<u> </u>	• 0	•	

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

AUTO 1: Used to play a disc containing both video and film source materials. This system recognizes the source type (video or film) of the current disc according to the disc information. Normally select this option.

AUTO 2: Almost the same as the "AUTO 1", but the processing of the scenes with movement is different. Select "AUTO 1" or "AUTO 2" to your preference.

FILM: Suitable for playing back a progressive scanned film source

disc. VIDE0: 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.

## Program Playback



You can program 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  $\lhd \triangleright$  to select "PRGM", then press **ENTER**. The program table appears under on-screen bar.



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

Examples:

 To select track 5, press the number key "5" and ENTER.
 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 (X). The last selection is erased.

Or press CLEAR (...). The whole selection is erased.

# BASIC OPERATIONS ON DVD DECK EN 35

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

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

### **To cancel Program Playback**

Press  $\triangleleft \triangleright$  to select "PRGM", then press **ENTER**.

### NOTE:

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

## **Random Playback**



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

### While stopped

Press ON SCREEN twice to access the on-screen bar.

**2** Press  $\lhd \triangleright$  to select "RND", then press **ENTER**. Playback starts in random order.

	TRACK 99	EACH 0:00	
			CINEMA
VCD	A-B⊂ ♥	PRGM	

# 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

HDD	DVD Ram	DVD R	DVD RW	DVD Video	VCD SVCD	Audio CD	MP3	JPEG
You can control the switching interval of the slide show.								

Press ON SCREEN twice to access the on-screen bar.

**2** Press  $\triangleleft \triangleright$  to select " $\square$ ", then press **ENTER**. The pop-up window appears under the selected item.

GROL	JP 99	TRACK 99	EACH 179:59	
		5 SE	С.	CINEMA
B	دے _	• <u>•</u>	3	

3 Press △▽ to select the desired option, then press ENTER.
Each time you press △▽, 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 whose size is larger.

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# **36** EN **BASIC OPERATIONS ON DVD DECK**

# 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/DBS/DVD switch to DVD.
  Press DVD so that the DVD lamp lights up on the unit.
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# To Set Parental Lock For The First Time

### While stopped

Press **SET UP** to access the Main Menu screen.

**2** Press  $\triangleleft \triangleright$  to select "DVD VIDEO SET UP", then press  $\bigtriangledown$ .

**3** Press  $\lhd \triangleright$  to select "PARENTAL LOCK", then press  $\bigtriangledown$ .

**4** Press  $\triangle \nabla$  to select "PARENTAL LEVEL", then press **ENTER**.

**5** Press  $\triangle \nabla$  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.
- **7** Press  $\triangle \nabla$  to select "COUNTRY CODE", then press ENTER.
- **8** Press  $\triangle \nabla$  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" (IF pg. 80)

**9** Press the **number keys** to enter the same password as in step **6** above, then press **ENTER**.

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

# NOTE:

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 continuing.

### To change the level

- **2** Press riangle 
  abla op to select "PARENTAL LEVEL", then press ENTER.
- **3** Press  $\triangle \nabla$  to select the desired level, then press **ENTER**.

### To change the country code

- **4** Press  $riangle 
  abla \$  to select "COUNTRY CODE", then press **ENTER**.
- **5** Press  $riangle 
  abla \nabla$  to select your country code, then press **ENTER**.
- See "Country/Area Code List for Parental Lock" (I pg. 80).

**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** twice to complete the setting.

### NOTE:

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  $\lhd \triangleright$  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.

### NOTE:

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



Filename [DR-MH30UJ\_05DVD Operation.fm]

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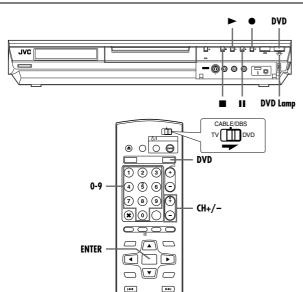
## BASIC OPERATIONS ON DVD DECK EN 37

# Basic Recording

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

#### ATTENTION:

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



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#### NOTES:

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- 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. (II pg. 71)
- Recordings made on DVD-R/RW disc must be finalized to play back on other DVD players. Perform "Finalize A Disc (DVD Deck Only)" (LF pg. 72).
- You can record up to 99 programs and 999 play lists on each disc.
- Some programs can only be recorded one time.
- When recording is started, an index of the first part of recording is automatically recorded. (IP pg. 51) To record satellite programs, refer to page 50. 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 both on DVD and on HDD simultaneously.

#### **Recording Mode**

MPEG2 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 programs where quick movement occurs, such as sports programs, 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:
-------------------------------	-----------------------------

Recording mode	Recording amount (approx.)	Maximum recording time (approx.)
XP	10 Mbps	1 hour
SP	5 Mbps	2 hours
LP	2 Mbps	4 hours
EP	1.6 Mbps	6 hours
FR60–FR360 (ピア pg. 39)	The amount varies	1 – 6 hours
FR420	depending on the selected time.	7 hours
FR480		8 hours

• For details on FR mode, refer to "Free Rate Function" (r pg. 39)

### **Recording Resume Function**

If there is a power outage during recording, Instant Timer Recording (ITR) ( $\Box P$  pg. 38) or timer recording ( $\Box P$  pg. 46, 48), the recording will resume automatically when power is restored to the unit unless the unit's memory backup has expired.

- Load a recordable disc.
- For details, refer to "Placing A Disc" (IF pg. 10).

REC MODE -

**2** Press **DVD** so that the DVD lamp lights up on the unit.

**3** Press **CH** +/– 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 as follows:
- $XP \rightarrow SP \rightarrow LP \rightarrow EP \rightarrow FR60-FR360^* \rightarrow FR420, FR480 \rightarrow$  (Back to the beginning)
- \* The value is selectable from 1 to 6 hours in 5-min. increment by pressing *⊲* ▷ repeatedly after selecting "FR60–FR360". To change the value in 30-min. increments, press and hold *⊲* ▷.
- For details on the recording mode, see the right column.

**5** Press ● on the unit to start recording. Or press and hold ● and press ► on the remote control.

- 6 Press and II 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.

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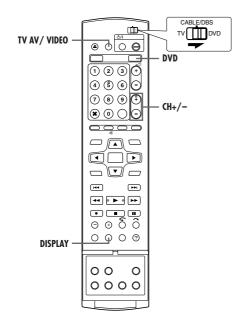
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### **38** EN **BASIC OPERATIONS ON DVD DECK**

# Recording Features

- Turn on the unit.
- Turn on the TV and select the AV mode.
- Slide the TV/CABLE/DBS/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 from 30 minutes to 6 hours (selectable in 30-min. increments), and shuts the unit off after recording is finished.

- Press on the unit to start recording.
- **2** Press  $\bullet$  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  $\bullet$  to

extend the time. Each press extends recording time by 30 minutes. **NOTES:** 

#### NUIES:

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- $\bullet$  You can only perform ITR using the  $\bullet$  button on the unit.
- When the recording capacity becomes full during timer recording or Instant Timer Recording, the unit automatically performs "Relief Recording" (IP pg. 48).

### Watch Another Program While Recording On The Unit

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

### NOTE:

It is required that the remote control is set to be able to operate the TV in advance. (  $\mathbb{IF}$  pg. 64)

- Slide the TV/CABLE/DBS/DVD switch to TV.
- **2** Press **CH** +/- repeatedly to select the desired channel.

### 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 follows:

Elapsed recording time  $\rightarrow$  Disc remaining time  $\rightarrow$  Clock  $\rightarrow$  (Back to the beginning)

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### Free Rate Function

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

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

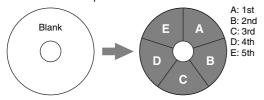
- Select "FR (JUST)" in a recording mode selection procedure.
  Note that this function is available only for timer programing recording
- (IF pg. 46, 48) and dubbing from HDD to DVD (IF pg. 58).

## To record the entire program by specifying the desired recording time

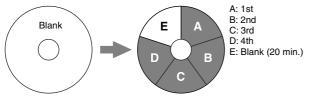
Select "FR60–FR360", "FR420" or "FR480" in a recording mode selection procedure. ( $\Box P$  pg. 37, 40, 46, 48)

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

Perform "VCR Plus+" Timer Programing" (IFP pg. 46) 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 program is recorded in SP mode instead of in "FR125", the 5th program cannot be recorded.



### BASIC OPERATIONS ON DVD DECK EN 39

#### NOTES:

- You can program this unit to timer-record, regardless of the disc remaining time. When the disc remaining time is not enough, the unit performs "Relief Recording" (IP pg. 48). To avoid this, make sure of the disc remaining time before setting timer-programing.
   (Example) If you programed 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 times.
- The maximum recording time of FR (JUST) mode is the same as the recording time of FR480 mode. When timer-programing a long program in FR (JUST) mode on a disc whose remaining time is short, it is recommended checking the disc remaining time in FR480 mode to see if the remaining time is enough for the program.
- Even if more than one program are timer-programed 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.

### Second Audio Recording

This unit's built-in MTS decoder enables reception of Multichannel TV Sound broadcast. To record a SAP program received, set "2ND AUDIO RECORD" to "ON". ( $\mathbb{IP}$  pg. 68)

- When the channel is changed on the unit;
- The "MONO" indicator appears on the screen for about 5 seconds if the program is a monaural broadcast.
- The "STEREO" indicator appears on the screen for about 5 seconds if the program is a stereo broadcast.
- Both "STEREO" and "SAP" indicators appear when a stereo program is accompanied by SAP sound.
- Both "MONO" and "SAP" indicators appear when the main audio on the monaural broadcast is accompanied by SAP sound.

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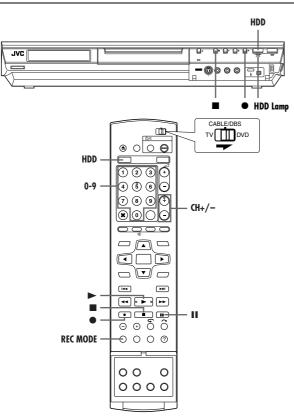
### 40 EN BASIC OPERATIONS ON HDD DECK

## **Basic Recording**

- Turn on the unit.
- Turn on the TV and select the AV mode.
- Slide the TV/CABLE/DBS/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 **CH** +/- 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 as follows:
- $XP \rightarrow SP \rightarrow LP \rightarrow EP \rightarrow FR60-FR360^* \rightarrow FR420, FR480 \rightarrow$  (Back to the beginning)
- \* The value is selectable from 1 to 6 hours in 5-min. increment by pressing *⊲ ▷* repeatedly after selecting "FR60–FR360". To change the value in 30-min. increments, press and hold *⊲ ▷*.
- · For details on the recording mode, see the right column.

**4** Press  $\bullet$  on the unit to start recording. Or press and hold  $\bullet$  and press  $\triangleright$  on the remote control.

- **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 both on DVD and on HDD simultaneously.

#### Pause recording on HDD deck

It is not possible to pause recording. Pressing **II** 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"). Press and hold  $\bullet$ , then press II on the remote. To resume recording, press and hold  $\bullet$ , then press  $\blacktriangleright$  on the remote. No operation can be made with the buttons on the unit.

#### **Recording Mode**

Select XP or SP for programs where quick movement occurs, such as sports programs, and LP or EP for talk shows, etc. with relatively less movement.

		DR-MH30S	DR-MH20S
HDD capacity		160 GB	80 GB
Recording Time			
XP	1 hour	Approx. 34 hours	Approx. 17 hours
SP	2 hours	Approx. 68 hours	Approx. 34 hours
LP	4 hours	Approx. 136 hours Approx. 68 hou	
EP	6 hours	Approx. 204 hours	Approx. 102 hours
FR480	8 hours	Approx. 272 hours	Approx. 136 hours
• Foundatelle and FD model and "Funda Data Foundation" (and and 20)			

• For details on FR mode, refer to "Free Rate Function" (IF pg. 39)

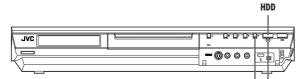
### **Recording Resume Function**

If there is a power outage during recording, Instant Timer Recording (ITR) ( $\Box P$  gg. 41) or timer recording ( $\Box P$  gg. 46, 48), the recording will resume automatically when power is restored to the unit unless the unit's memory backup has expired.

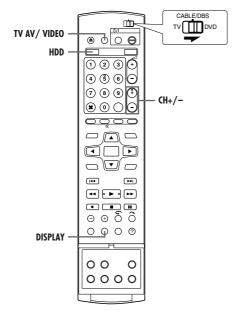
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## **Recording Features**

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



HDD Lamp



## BASIC OPERATIONS ON HDD DECK EN 41

### Instant Timer Recording (ITR)

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

- Press on the unit 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  $\bullet$  to

extend the time. Each press extends recording time by 30 minutes. **NOTES:** 

#### NUTES:

- 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 Program While Recording On The Unit

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

### NOTE:

It is required that the remote control is set to be able to operate the TV in advance. (  $\mathbb{IIF}$  pg. 64)

- Slide the TV/CABLE/DBS/DVD switch to TV.
- **2** Press **CH** +/- repeatedly to select the desired channel.

### 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 follows:

Elapsed recording time  $\rightarrow$  Disc remaining time  $\rightarrow$  Clock  $\rightarrow$  (Back to the beginning)

### Second Audio Recording

This unit's built-in MTS decoder enables reception of Multichannel TV Sound broadcast. To record a SAP program received, set "2ND AUDIO RECORD" to "ON". (r pg. 68)

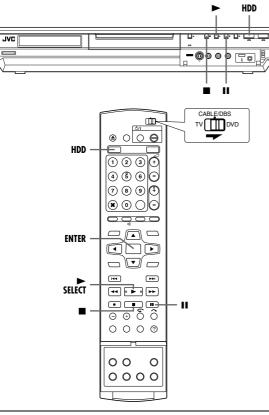
- When the channel is changed on the unit;
- The "MONO" indicator appears on the screen for about 5 seconds if the program is a monaural broadcast.
- The "STEREO" indicator appears on the screen for about 5 seconds if the program is a stereo broadcast.
- Both "STEREO" and "SAP" indicators appear when a stereo program is accompanied by SAP sound.
- Both "MONO" and "SAP" indicators appear when the main audio on the monaural broadcast is accompanied by SAP sound.

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### 42 EN BASIC OPERATIONS ON HDD DECK

## **Basic Playback**

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



#### **ATTENTION:**

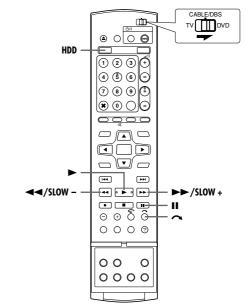
- It may take a few seconds to start playback. This is not a malfunction.
- Forward/reverse high-speed search and other operations cannot be performed while playback is stopped.
- Press HDD so that the HDD lamp lights up on the unit.
- 2 Press ► to start playback.
- The Library Database Navigation also enables you to search and select the desired programs. (CF pg. 52)
- 3 Press II to pause playback.
- To resume normal playback, press ►.
- **4** Press to stop playback.

#### NOTE:

When the Library Database Navigation screen appears, choose a thumbnail image of the desired title on the TV screen, then press SELECT(►) or ENTER. (IIF pg. 52)

## **Playback Features**

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



### **High-Speed Search**

During playback, press ►► for forward high-speed search, or ◄◄ for reverse high-speed search.

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

### Still Picture/Frame-By-Frame Playback

Press II to pause during playback.

- **2** Press **SLOW** (◄◄) or **SLOW** + (►►) to activate frame-by-frame 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 (from 1/16 to 1/2 times the normal speed).

### Skip Search

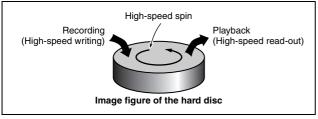
During playback, press <a></a>.

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

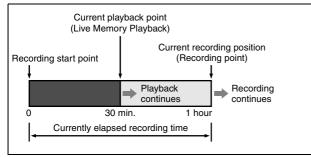
## Live Memory Playback

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

This unit records pictures onto the hard 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 program 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 program previously recorded while recording or timer recording another program, but the unit also allows you to play back from the beginning of a program while continuing to record the same program.

### Temporary recording for Live Memory

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. (🖙 pg. 68)

### 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 programs recorded beyond the specified range of time since they are already overwritten. To avoid this in order to save titles, perform normal recording (IF pg. 40), timer recording (IF pg. 46, 48), or Live Memory Recording (1 pg. 45).

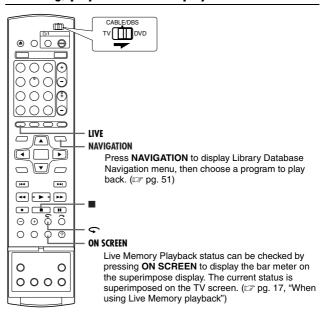
### About limitation on temporary recording

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, Live Memory Recording, or Automatic Satellite Program Recording (pg. 50) is performed
- When the "LIVE MEMORY" setting is changed (I pg. 68)
- When tuner channel setting is performed (r pg. 23)
- When dubbing is performed by pressing DUBBING (IF pg. 58)
- When "DV" is selected by pressing CH +/- (IF pg. 60)

BASIC OPERATIONS ON HDD DECK EN 43

### **Recording/playback Status Display**



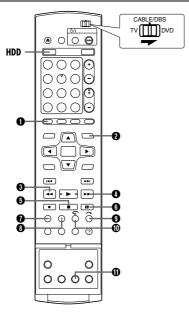
- Live Memory Playback cannot be performed for approximately 30 seconds after recording has started.
- Although high-speed search up to approximately 30 seconds before the current recording point is possible during Live Memory Playback, once the current recording point is reached, the unit resumes normal 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-program.
- It is impossible to perform ITR even if you press during Live Memory Playback. (I pg. 41) Press ■ to display the program being recorded, then perform ITR settings
- 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. (IF 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" is set to other than OFF in "HDD SET UP", because temporary recording on HDD stops during recording on DVD.

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### 44 EN BASIC OPERATIONS ON HDD DECK

### 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/DBS/DVD switch to DVD.
- Press HDD so that the HDD lamp lights up on the unit.



### LIVE

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

### 2 NAVIGATION

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

#### **3**

- Each press of the button during playback advances the playback speed in 5 steps for 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 slowmotion at 1/16 times, 1/4 times and 1/2 times the normal playback.

### 0 >>

- Each press of the button during playback advances the playback speed in 4 steps for 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.

#### 6∎

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

#### 6 II

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

#### O JUMP -

Each press of the button during playback or Live Memory Playback jumps back for the selected time interval and resumes playback. (IF pg. 45, "Jump Search")

#### IUMP +

Each press of the button during playback or Live Memory Playback jumps forward for the selected time interval and resumes playback. ( $\Box = pg. 45$ , "Jump Search")

#### 9

Pressing once skips forward for approximately 30 seconds and resumes playback.

Pressing repeatedly skips forward continuously as many times as pressed.

It is useful when skipping over unwanted sections.

### 0 Ϛ

Pressing once skips back for approximately 30 seconds and resumes playback.

Pressing repeatedly skips back for approximately 7 seconds continuously as many times as pressed.

It is useful when watching sports programs, etc.

#### LIVE CHECK

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.

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

### BASIC OPERATIONS ON HDD DECK EN 45

### To Play Back The Previous Part Of The Channel Currently Recording or Watching

You can play back the previous part of the channel you are recording or watching (temporarily recorded on the background) from the desired point. (IFP pg. 43, "Temporary recording for Live Memory")

- Press I ← or ← to locate the point to start playback from. • Each press of ← increases the reverse search speed.
- 2 Press ► to start Live Memory Playback.
- 3 Press to stop Live Memory Playback.
- The on-air screen resumes.

### NOTES:

- You can use various playback features during Live Memory Playback. (IFP pg. 42)
- If you have started actual recording by pressing ●, pressing in step 3 only resumes the on-air screen. To stop actual recording, press ■ again.

### To Record From The Previous Part Of The Channel Currently Watching (Live Memory Recording)

You can start recording from the previous part of the channel you are currently watching (temporarily recorded on the background). (IFP pg. 43, "Temporary recording for Live Memory")

- Press I or I to locate the point to start recording from.
- Each press of << increases the reverse search speed.

**2** Press  $\bullet$  on the unit to start Live Memory Recording. Or press and hold  $\bullet$  and press  $\triangleright$  on the remote control.

3 Press ■ to stop Live Memory Recording.

• The on-air screen resumes.

### NOTES:

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

### To Move Back The Playback Position Slightly While Recording (One Touch Replay Function)

You can move back the playback position while continuing to record or timer record.

### Press Ϛ

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

### To Resume Playback Of A TV Broadcast From The Paused Point

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  $\blacksquare$  to resume the on-air screen.

### 1.5x Speed Search

You can play back a title quickly. (This feature can also be performed with normal playback.)

1.5x speed search cannot be performed during recording on HDD or DVD.

- Press **I** Press **I** to locate the point to start 1.5x speed search 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". (IF pg. 31)

### Jump Search

You can locate a scene ahead or behind the current one by jumping scenes according to selected time intervals (P g. 68) during playback (or Live Memory Playback). This feature is also available during recording (or Live Memory Recording) or when watching a TV received program.

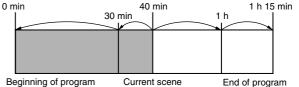
Press JUMP - or JUMP +

- To advance forward or back, press JUMP or JUMP + repeatedly within 5 seconds of each press to continue jump.
- When you cannot advance any farther (beginning or end of program reached), the message "UNABLE TO GO BACK ANYMORE" appears on the screen and the on-air screen resumes. In such a case, press I◄◄, ◄◄ or ■.

#### Example 1:

Playback search when jump interval is set to 30 MIN jumps Time counter

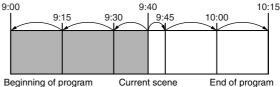
- .



#### Example 2:

Recording search when jump interval is set to 15 MIN jumps Clock time

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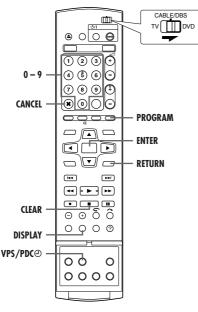
### 46 EN TIMER RECORDING

## CR Plus+® Timer Programing

You can program this unit to timer-record as many as 32 programs. With the VCR Plus+ system, timer programing is greatly simplified because each TV program has a corresponding code number which your unit is able to recognize.

You can use the remote control to enter the PlusCode 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/DBS/DVD switch to DVD.



- Load a recordable disc if recording to DVD.
- 2 Press PROGRAM to access the program top screen.
- **3** Press  $\triangle \nabla \triangleleft \triangleright$  to select "VCR PLUS+", then press ENTER.
- When "PROGRAM FULL DELETE UNWANTED TIMER PROGRAMS" appears on the TV screen, you need to cancel some of
  - the reserved programs. (IF pg. 49)

4 Press the number keys to enter the VCR Plus+ number of a program you wish to record. OR

Press  $\triangle \bigtriangledown \lhd \triangleright$  to select the desired number key on the screen, then press ENTER. Repeat to enter all needed numbers.



**5** Press  $\triangle \nabla$  to select "RECORD TO", then press **ENTER**. Press  $riangle 
abla \$  to select the desired recording deck, then press ENTER.

- **6** Press  $\triangle \nabla \triangleleft \triangleright$  to select "CONFIRM", then press ENTER. If the number you entered is invalid, "PLUSCODE NO. ERROR
- CONFIRM PLUSCODE NO. THEN RETRY" appears on the TV screen. Input a valid PlusCode number.
- If "GUIDE PROGRAM IS NOT SET SET GUIDE PROGRAM THEN RETRY" appears on the TV screen, set Guide Channel Numbers manually. (17 pg. 70)

7 The PlusCode number you entered and the matching timerrecording information are displayed on the TV screen. Check the program data.

To cancel this setting, press RETURN.

#### **IMPORTANT:**

Make sure the channel position number you wish to record is displayed; if not, see "Changing VCR Plus+" Setting" (IF pg. 70) and set the Guide Channel number correctly.

- **8** Press  $\triangle \nabla$  to select the desired recording option as required.
- Press  $riangle 
  abla \$  to select the desired setting, then press **ENTER**.
- "INPUT TITLE" (III) pg. 52, "Modify Title Name")
   "CATEGORY" (III) pg. 53, "Modify Category")
   "WEEKLY/DAILY" (III) pg. 47, "Weekly/Daily Recording")
   "REC MODE" (III) pg. 37, "Recording Mode")

 $\boldsymbol{9} \text{ Press } \bigtriangleup \nabla$  to select "OK", then press  $\boldsymbol{\mathsf{ENTER}}$  to access the Program Confirmation screen.

- **10** Press  $\triangleleft \triangleright$  to select "EXIT", then press **ENTER** to complete timer programing.
- To program another timer, press  $\lhd \triangleright$  to select "CONTINUE", then press ENTER.
- If "PROGRAM OVERLAPPED" appears on the TV screen, see page 49.

#### NOTES:

- There may be cases that the VCR Plus+ Timer Programing function prolongs the stop time of the programing.
- When two successive programs are recorded on a DVD-RW disc with the VCR Plus+ Timer Programing function, the beginning of the second one may be left off the recording.
- If the copy limited program 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 programed.

#### **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 VCR Plus+ program screen in step 7. When this happens, set the correct Guide Channel number for that station. (IF pg. 70, "Changing VCR Plus+" Setting")

#### **Cable Box and DBS Receiver Users**

To timer-record a satellite broadcast using the VCR Plus+ system:

- Perform "Cable Box and/or DBS Receiver Control Setting" (🖙 pg. 24).
- Perform "VCR Plus+" Timer Programing" (IF pg. 46).
- Leave the cable box or DBS receiver's power on. 3

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## TIMER RECORDING EN 47

### Weekly/Daily Recording

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

#### For the HDD deck

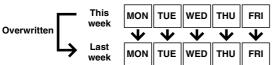
When you select a mode other than ONCE, the space on the hard disk drive is saved for new recordings by overwriting previous recordings. To prevent loss of a needed recording, backup programs you wish to save by dubbing them to DVD discs before overwriting previous recordings. Or save the title of weekly/daily programs to avoid overwriting of a previous week/day. (IFF pg. 49)

### ONCE (One Time Recording)

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



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



MON–SUN (OVERWRITE)/ MON–SAT (OVERWRITE)/ MON–FRI (OVERWRITE) (Daily Recording/Daily Overwrite) When the set daily program is broadcast, yesterday's program is automatically deleted and overwritten by the new program. Save the title of each program you wish to save, then the recorded program is saved and will not be overwritten by the new program.



#### For the DVD deck

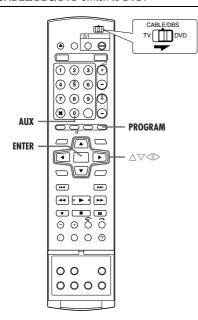
ONCE (One Time Recording) WEEKLY (Weekly Recording) MON–SUN/ MON–SAT/ MON–FRI (Daily Recording) DR-MH30UJ\_00.book Page 48 Monday, July 12, 2004 3:17 PM

### **48** EN TIMER RECORDING

## **Manual Timer Programing**

You can program this unit to timer-record as many as 32 programs. If you do not know the VCR Plus+ number for the program you wish to record, use the following procedure to set your unit to timer-record the program.

- 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/DBS/DVD switch to DVD.



- Load a recordable disc if recording to DVD.
- **2** Press **PROGRAM** to access the program top screen.
- 3 Press △▽⊲ ▷ to select "CALENDAR PR.", then press ENTER. • When "PROGRAM FULL DELETE UNWANTED TIMER
- PROGRAMS" appears on the TV screen, you need to cancel some of the reserved programs. (IP pg. 49)
- **4** Press  $\triangle \nabla \triangleleft \triangleright$  to select the desired date, then press **ENTER**.

**5** Press  $riangle \nabla$  to select "RECORD

TO", then press ENTER. Press

 $\triangle \nabla$  to select the desired recording deck, then press **ENTER**.

2 PROGRAM > CALENDAR PROG. (2/3)					
	01/08/03 WED 10:30PM - 11:00PM DBS 100 (MISC. ] XP				
SELECT WITH [ ◀≑▶ ]	RECORD TO	HDD N			
THEN PRESS [ENTER]	START	10:30PM			
PRESS [PROGRAM] TO EXIT	STOP	11:00PM			
	SOURCE	DBS			
	CH	100			
PROGRAM ENTER					

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

Masterpage:Left+

- set the desired start time, then press ENTER.
  Each press of △▽ advances/goes back the start time in 1-min. increments
- $\bullet$  To advance/go back the start time in 30-min. increments, press and hold  $\bigtriangleup \bigtriangledown.$
- **7** Press  $\triangle \nabla$  to select "STOP", then press **ENTER**. Press  $\triangle \nabla$  to set the desired stop time, then press **ENTER**.
- Each press of △▽ advances/goes back the stop time in 1-min. increments.
- $\bullet$  To advance/go back the stop time in 30-min. increments, press and hold  $\bigtriangleup \bigtriangledown$  .
- **8** Press  $\triangle \nabla$  to select "SOURCE", then press ENTER. Press  $\triangle \nabla$  to select the desired source, then press ENTER.
- **9** Press  $\triangle \nabla$  to select "CH", then press **ENTER**. Press  $\triangle \nabla$  to select the desired channel.
- **10** Press  $\triangle \nabla$  to select "CONFIRM", then press ENTER.
- **1** Set the other recording options as required.
- Refer to step 8 in "VCR Plus+" Timer Programing" (IF pg. 46).
- **12** Press  $\triangle \nabla$  to select "OK",

then press **ENTER** to access the Program Confirmation screen.

**13** Press  $\lhd \triangleright$  to select "EXIT",

then press **ENTER** to complete timer programing.

- To program another timer, press
   ⊲ ▷ to select "CONTINUE", then press ENTER.
- If "PROGRAM OVERLAPPED" appears on the TV screen, see page 49.

#### NOTES:

- When two successive programs are recorded on a DVD-RW disc with Manual Timer Programing function, the beginning of the second one may be left off the recording.
- If the copy limited program 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 programed.

#### **Cable Box and DBS Receiver Users**

To timer-record a satellite broadcast using Manual Timer Programing:

- Perform "Cable Box and/or DBS Receiver Control Setting" ( gr pg. 24).
- Perform "Manual Timer Programing" (1 pg. 48).
- 3 Leave the cable box or DBS receiver's power on.

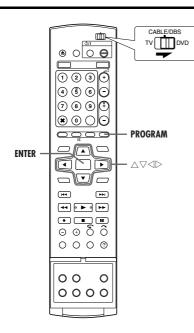
### **Relief Recording**

When a program that is set for the DVD deck cannot be recorded properly, the program is recorded to the HDD deck instead in the same recording mode as set.

- If the remaining capacity of the hard disc is not sufficient, the program 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.

Filename [DR-MH30UJ\_07Timer Recording.fm]

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#### To check the whole list of programs

**Check Programs** 

- Press **PROGRAM** to access the program top screen.
- **2** Press  $\triangle \nabla \triangleleft \triangleright$  to select "PROGRAM LIST", then press ENTER.
- The details of a selected program appear on the top of the screen.
- The daily program of a title is listed as one program.

### To check the list of programs by date

- Press **PROGRAM** to access the program top screen.
- **2** Press  $\triangle \bigtriangledown \lhd \triangleright$  to select "CALENDAR LIST", then press ENTER.
- **3** Press  $\triangle \nabla$  to select the desired date, then press **ENTER**.

### **Cancel And Change Programs**

• Repeat steps in "Check Programs" to select a program before proceeding.

#### To cancel the program

Press  $\triangle \nabla \triangleleft \triangleright$  to select "CANCEL", then press **ENTER**.

#### To modify the program settings

Press  $\triangle \nabla \triangleleft \triangleright$  to select "MODIFY", then press **ENTER**.

**2** Change the settings of the desired recording options as required.

• Refer to steps 4 – 13 in "Manual Timer Programing" (IF pg. 48).

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

**Press**  $\triangle \nabla \triangleleft \triangleright$  to select "PROGRAM SKIP", then press **ENTER**.

**2** Press  $\triangleleft \triangleright$  to select "SKIP", then press **ENTER** twice.

To save the titles of weekly/daily programs (HDD Deck Only) Use this function to avoid overwriting titles of weekly/daily programs of a previous week/day.

Press  $\triangle \nabla \triangleleft \triangleright$  to select "TITLE SAVE", then press **ENTER**.

**2** Press  $\lhd \triangleright$  to select "SAVE", then press **ENTER** twice.

#### NOTE:

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

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### 50 EN TIMER RECORDING

## Automatic Satellite Program Recording

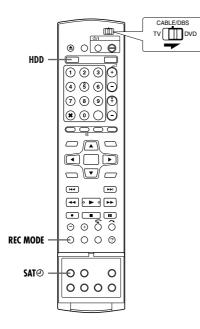
This function allows you to automatically record a satellite program which is timer-programed on your external DBS receiver. Connect a DBS receiver to the unit's AUDIO/S-VIDEO/VIDEO INPUT (L-1) connectors and program the timer on the DBS receiver. The unit starts or stops recording by the signals input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

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

### **ATTENTION:**

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





- Make sure the DBS receiver is connected to the unit's AUDIO/ S-VIDEO/VIDEO INPUT (L-1) connectors.
- Program the timer on the DBS receiver.
- Slide the TV/CABLE/DBS/DVD switch to DVD.
- Press HDD to choose the recording deck.
- 2 Press REC MODE repeatedly to set the recording mode.

**3** Press and hold **REC LINK** for about 2 seconds to engage the Automatic Satellite Program Recording mode. "R-LK" appears on the front display panel.

- To disengage the Automatic Satellite Program Recording mode, press **REC LINK**.
- If the unit's power is off, it is not possible to engage the Automatic Satellite Program Recording mode.
- In step 3, if "R-LK" blinks quickly on the front display panel even though your DBS receiver's power is off, Automatic Satellite Program Recording will not work properly with that DBS receiver\*. If this is the case, perform "Manual Timer Programing" (IF pg. 48) to timer-record a satellite program.
- \* Some DBS receivers output signals even if the power is off. Automatic Satellite Program Recording is not possible with those DBS receivers.
- "R-LK" blinks on the front display panel while Automatic Satellite Program Recording is in progress.
- For timer programing of the DBS receiver, refer to the instruction manual of the DBS receiver.
- Automatic Satellite Program Recording is not possible if your DBS receiver does not have a timer.
- Pressing the unit's 0/1 button while Automatic Satellite Program Recording is in progress turns off the unit's power and disengages the Automatic Satellite Program Recording mode.
- If there are more than one satellite programs you wish to record with Automatic Satellite Program Recording, it is not possible to set different recording modes for each program.
- Depending on the type of DBS receiver, the unit may not record a slight portion of the beginning of the program or may record slightly longer than the actual length of the program.
- If you engage the Automatic Satellite Program Recording mode when the DBS receiver's power is on, the unit will not start Automatic Satellite Program Recording even though "R-LK" blinks on the front display panel. When the DBS receiver shuts off once and is turned back on again, the unit starts recording.
- You can also record a program from your cable system in the same way if the system has a timer.

### NAVIGATION EN 51

## Library Database Navigation

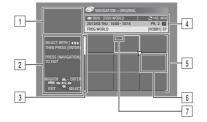


The Library Database Navigation enables you to search and select the desired titles recorded on the HDD deck and the DVD deck very easily.

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  $\triangle \nabla \triangleleft \triangleright$  on the remote control.



- Playback screen
  - (Indicates currently received TV program.)
- 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  $\Delta \nabla \triangleleft \triangleright$  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
  - **(1**): Indicates no index is registered.
  - 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.		
S	This title has stereo sounds.		
Ċ	This title was recorded with timer recording.		
W	This title is Weekly Recording/Weekly Overwrite.		
D	This title is Daily Recording/Daily Overwrite.		
D	This title is Daily Recording/Weekly Overwrite.		
NEW	This title has not been played back.		
0	This title is copy-protected.		
()	This title was just once recordable (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 program titles)
- program title\*
- category\*
- date and timechannel
- 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.

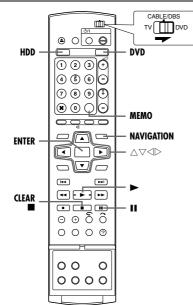
When the amount of information is at the limits of registration, you cannot record new titles any more. In this case, you need to delete old titles to register new one. ( $\Box P$  pg. 53)

- Once a DVD-R/RW (Video mode) disc has been finalized, 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 S.
- Sound of received channel may be interrupted while the Library Database Navigation screen is displayed.
- The order of thumbnail images which are displayed by pressing DUBBING differs from the images displayed by pressing NAVIGATION or EDIT.
- You cannot perform timer recording during editing the thumbnail images or play lists by pressing **EDIT**. Press **EDIT** to clear the Editing screen before performing timer recording.

## 52 EN NAVIGATION

### Scan For Beginning Of Title

- Turn on the TV and select the AV mode.
- Slide the TV/CABLE/DBS/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  $\triangle \nabla \triangleleft \triangleright$  to select "ORIGINAL", then press ENTER.

**3** Press  $\triangle \bigtriangledown \triangleleft \triangleright$  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 programs automatically

- When you want to cancel the order, press CLEAR (■)
- 4 Press  $\lhd \triangleright$  to select
- "BEGINNING", then press ENTER.
- To repeat playback of a selected title, press  $\lhd \triangleright$  to select "REPEAT", then press ENTER.
- To resume playback from the point where playback was previously stopped, press  $\lhd \triangleright$  to select "RESUME", then press ENTER
- 5 Press II to pause playback.
- To resume normal playback, press ►.
- 6 Press to stop playback.

## **Modify Original Information**

- .IPFG
- Turn on the TV and select the AV mode.
- Slide the TV/CABLE/DBS/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

### **Modify Index**

Press EDIT. The Editing screen appears.

**2** (DVD deck only) Press  $\triangle \bigtriangledown \lhd \triangleright$  to select "MODIFY" under "ORIGINAL/PLAY LIST", then press ENTER.

**3** Press  $\triangle \nabla \triangleleft \triangleright$  to select "MODIFY" under "ORIGINAL", then

press ENTER.

4 Press  $riangle 
abla \ arphi \ arphi$  to select one title you want to modify, then press ENTER.

**5** Press  $\lhd \triangleright$  to select "INDEX".

6 Search for the picture from the title by pressing the appropriate buttons ( $\triangleleft \triangleleft$ ,  $\triangleright$ ,  $\triangleright \triangleright$ , or II). 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" ( $\square$  pg. 52) before continuing.

143 MIN

**2** Press  $\triangle \bigtriangledown \lhd \triangleright$  to select "NAME", then press ENTER.

**3** Press  $\triangle \bigtriangledown \lhd \triangleright$  to select the desired letter or command, then press ENTER. Repeat this

- process to complete the name. • To correct a letter, press riangle riangle riangle
- to select "DELETE", then press ENTER.
- You can enter the letters up to 64 **4** Press  $\triangle \nabla \triangleleft \triangleright$  to select

"SAVE", then press ENTER.

5 Press EDIT to return to the normal screen.





## NAVIGATION EN 53

### Modify Category

Perform steps 1 - 4 of "Modify Index" ( $\square pg. 52$ ) before continuing.

**2** Press  $\triangle \nabla \triangleleft \triangleright$  to select "CATEGORY", then press **ENTER**.

**3** Press  $\triangle \bigtriangledown \triangleleft \triangleright$  to select the desired category, then press

ENTER.

**4** Press **EDIT** to return to the normal screen.

🚴 EDITING > MODIFY CATEGORY			
	<ul> <li>0026 [FISH WORLD ]</li> <li>12/26/02 THU 10:00AM - 10:15AM</li> <li>FROG WORLD</li> </ul>	N 64 MIN TV 3 S (HOBBY) XP	
SELECT WITH [ <> } THEN PRESS [ENTER] PRESS [EDIT]		DRAMA & S	
TO EXIT			
EXIT	1000 .88	1.1.1	

### Protect Title (DVD deck only)

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

Perform steps 1 - 3 of "Modify Index" ( $\mathbb{IP}$  pg. 52) before continuing.

**2** Press  $\triangle \nabla \triangleleft \triangleright$  to select "PROTECT", then press **ENTER**.

**3** Press  $\triangle \bigtriangledown \triangleleft \triangleright$  to select a title you want to protect, then press **ENTER**.

**4** Press  $\triangleleft \triangleright$  to select "PROTECT", then press **ENTER**. "

• 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. (IF pg. 53)

### **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.

Press EDIT. The Editing screen appears.

**2** Press  $\triangle \nabla \triangleleft \triangleright$  to select "DELETE" under "ORIGINAL", then press **ENTER**.

**3** Press  $\triangle \nabla \triangleleft \triangleright$  to select one title you want to delete, then press **ENTER**.

**4** Press  $\lhd \triangleright$  to select "DELETE", then press **ENTER**.

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

### Delete Unwanted Part Of The Title (DVD deck only)

You can delete unwanted part of the title.

Perform steps 1 – 3 of "Modify Index" (☞ pg. 52) before continuing.

**2** Press  $\triangle \nabla \triangleleft \triangleright$  to select "DEL SCENE", then press **ENTER**.

**3** Press  $\triangle \nabla \triangleleft \triangleright$  to select one title whose unwanted part you want to delete, then press **ENTER**.

**4** The playback pictures appear in the window on the screen. The elapsed playing time starts counting with the arrow on "IN".

**5** Find the point where you want the deletion to begin, then press **ENTER** with the arrow on "IN". The edit-in time is fixed and the elapsed playing time starts counting again.



**6** Find the point where you want the deletion to end, then press **ENTER** with the arrow on "OUT".

The edit-out time is fixed.

• Press <<, >, >>, I<<, >> I to find the edit-in and edit-out points.

**7** Press  $\lhd \triangleright$  to select "PREVIEW", then press **ENTER** to preview the edited title.

- **8** Press  $\triangleleft \triangleright$  to select "OK", then press **ENTER**.
- If you do not want to delete the scene, press EDIT or RETURN.

### To modify the points

Press EDIT or RETURN.

- Repeat steps 4 8 as necessary.
- **9** Press  $\lhd \triangleright$  to select "DELETE", then press **ENTER**. The selected scene is deleted.
- To cancel the deletion, press  $\lhd\, \vartriangleright$  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**

- Press EDIT. The Editing screen appears.
- **2** Press  $\triangle \nabla \triangleleft \triangleright$  to select "DIVIDE", then press ENTER.
- **3** Press  $\triangle \nabla \triangleleft \triangleright$  to select a title to divide, then press ENTER.

**4** Locate a point to divide by pressing the appropriate buttons  $( \triangleleft , \triangleright, \triangleright )$ , or **II**).

- **5** Confirm the arrow is on "DIVIDE", then press **ENTER** at the dividing point.
- The first picture (start) of the newly created title appears in the bottom right window.
- **6** Press  $\triangleleft \triangleright$  to 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 <> ▷ to select "RETRY", then press ENTER. Repeat the above procedure to locate another point to divide.
- **7** Press  $\triangleleft \triangleright$  to select "OK", then press **ENTER**.
- **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**

You can create and delete chapter marks in titles.

Perform steps 1 − 4 of "Modify Index" (□ pg. 52) before continuing.

**2** Press  $\triangle \nabla \triangleleft \triangleright$  to select "CHAPTER", then press **ENTER**.

#### **3** Confirm the arrow is on "MARK", then press **ENTER** at

MARK , then press ENTER at positions you want to mark.
The newly created chapter is

- displayed.
- To undo the marking, press <>>> to select "RETRY", then press
   ENTER. Repeat the above procedure to locate another point to mark.

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4 Press ►, and press ◄< or ►► to select one chapter you want to delete, then press II.

- **5** Press  $\triangleleft \triangleright$  to select "ERASE", then press **ENTER**.
- The selected chapter is deleted.
- To undo the deletion, press <> ▷ to select "RETRY", then press ENTER. Repeat the above procedure to locate another point to delete.

**6** 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 Play List Information

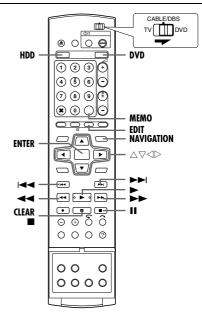


Masterpage:Left+

- Turn on the TV and select the AV mode.
- Slide the TV/CABLE/DBS/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.



#### 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**

Press EDIT. The Editing screen appears.

**2** (DVD deck only) Press  $\triangle \bigtriangledown \triangleleft \triangleright$  to select "MODIFY" under "ORIGINAL/PLAY LIST", then press **ENTER**.

**3** Press  $\triangle \nabla \triangleleft \triangleright$  to select "CREATE", then press **ENTER**.

**4** Press  $\triangle \nabla \triangleleft \triangleright$  to select a title that includes scenes to be included in a play list, then press **ENTER**.

**5** The playback pictures appear in the window on the screen. The elapsed playing time starts counting with the arrow on "IN/OUT".

**6** Find the point where you want the created play list to begin, then press **ENTER** with the arrow on "IN/OUT". The edit-in time is fixed and the elapsed playing time starts counting again.



**7** Find the point where you want the created play list to end, then press **ENTER** with the arrow on "IN/OUT". The edit-out time is fixed.

Press ◄◄, ►, ►►, I◄◄, ►►I or II to find the edit-in and edit-out points.

• The edit-out point must come after the edit-in point.

**8** Press  $\triangle \nabla \triangleleft \triangleright$  to select "PREVIEW", then press **ENTER** to preview the play list.

 $\boldsymbol{9}$  Press  $\bigtriangleup \bigtriangledown \trianglelefteq \lor \lor$  to select "OK", then press  $\boldsymbol{\mathsf{ENTER}}.$  The play list is created.

### To modify the points

1 Press  $\triangleleft \triangleright$  to select "MODIFY", then press **ENTER**.

Repeat steps 5 – 9 as necessary.

**10**Press  $\lhd \triangleright$  to select "EXIT", then press **ENTER** 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". (IF pg. 52)
  You can modify the play list that has just been created here by
- 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**

Press EDIT. The Editing screen appears.

**2** Press  $\triangle \nabla \triangleleft \triangleright$  to select "MODIFY" under "PLAY LIST", then press **ENTER**.

**3** Press  $\triangle \nabla \triangleleft \triangleright$  to select a play list to modify, then press **ENTER**.

- **4** Press  $riangle \bigtriangledown \lor \lor$  to select "SCENE", then press **ENTER**.
- **5** Press  $\triangle \nabla \triangleleft \triangleright$  to select "MODIFY", then press ENTER.
- **6** Press  $\triangle \nabla \triangleleft \triangleright$  to select a scene to modify, then press **ENTER**.
- 7 Perform steps 5 10 in "Create Play List" (r pg. 55).

## NAVIGATION EN 55

### Add scenes

- Perform steps 1 3 in "Edit Scenes" (1 pg. 55) before
- continuing.
- **2** Press  $\triangle \nabla \triangleleft \triangleright$  to select "SELECT TITLE", then press **ENTER**.
- 3 Perform steps 4 10 in "Create Play List" (I pg. 55).

### **Move Scenes**

Perform steps 1 – 3 of "Edit Scenes" (☞ pg. 55) before continuing.

- **2** Press  $\triangle \nabla \triangleleft \triangleright$  to select "MOVE", then press ENTER.
- **3** Press  $\triangle \nabla$  to select a scene to move, then press ENTER.

**4** Press  $\triangle \nabla$  to select another scene to which the scene is to be moved, then press **ENTER**.

 $\bullet$  To cancel the move, press  $\bigtriangleup \bigtriangledown \trianglelefteq \triangleright$  to select "RETRY", then press ENTER.

5 Perform steps 8 – 10 in "Create Play List" (IF pg. 55).

### **Delete Scenes**

l Perform steps 1 – 4 of "Create Play List" ( $\square P$  pg. 55) before continuing.

- **2** Press  $\triangle \nabla \triangleleft \triangleright$  to select "DELETE", then press **ENTER**.
- **3** Press  $\triangle \nabla$  to select a scene to delete, then press **ENTER**.
- 4 Perform steps 8 10 in "Create Play List" (IF pg. 55).

### **Play Back Play List**

Press NAVIGATION. The Library Database Navigation screen appears.

**2** Press  $\triangle \nabla \triangleleft \triangleright$  to select "PLAY LIST", then press **ENTER**.

**3** Press  $\triangle \nabla \triangleleft \triangleright$  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 30 play



index. You can select up to 30 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 CLEAR (■).
- **4** Press  $\lhd \triangleright$  to select "BEGINNING", then press **ENTER**. The

playback starts.

- 5 Press II to pause playback.
- To resume normal playback, press ►.
- Press to stop playback.



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## 56 EN MAVIGATION

### **Delete Play List**

Press EDIT. The Editing screen appears.

**2** Press riangle 
eq riangle to select "DELETE" under "PLAY LIST", then press ENTER.

**3** Press riangle 
abla riangle to select one play list you want to delete, then press ENTER.

**4** Press  $\triangleleft \triangleright$  to select "DELETE", then press **ENTER**.

• When you cancel the deletion, select "CANCEL", then press ENTER. 5 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

☐ Perform steps 1 – 3 of "Edit Scenes" (□ pg. 55) before continuing.

Perform steps 5 – 8 of "Modify Index" (pg. 52).

### **Modify Play List Name**

☐ Perform steps 1 – 3 of "Edit Scenes" (□ pg. 55) before continuing

Perform steps 2 – 5 of "Modify Title Name" (pg. 52).

### Modify Category

□ Perform steps 1 – 3 of "Edit Scenes" (☞ pg. 55) before continuing.

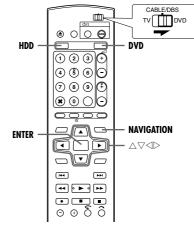
Perform steps 2 – 4 of "Modify Category" (pg. 53).

## Modify 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/DBS/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  $\triangle \bigtriangledown \triangleleft \triangleright$  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  $\triangle \nabla \triangleleft \triangleright$  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.

Press  $\lhd \triangleright$  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". (🖙 pg. 68)

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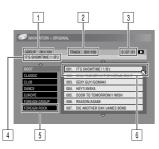
01

## 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 easily.



Selected group number/total number of groups on the disc

2 Selected file number/total number of files in the group that contains the selected file

- 3 Elapsed time (MP3 only)
- 4 Name of the selected file

5 Group name

6 Selected file

#### NOTE:

If there are more than 100 files the rest files are not displayed. In such a case, press **ON SCREEN** to display them on the TV screen.

### Locating The Desired Group And Tracks

- Load a disc.
- 2 Press NAVIGATION.
- **3** Press  $\triangle \nabla \triangleleft \triangleright$  to select "ORIGINAL", then press **ENTER**.
- **4** Press  $\triangle \nabla$  to select the desired
- group, then press ENTER.
- A list of files in the selected group appears.

**5** Press  $\triangle \nabla$  to select the desired item, then press **ENTER**. The unit

starts playback from the selected

• The unit stops when all items in

the selected group are played

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- 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.
  (𝒴 pg. 35)
- 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.

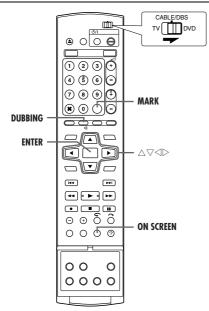
Filename [DR-MH30UJ\_09Editing.fm]

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## Dubbing

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



#### NOTE:

It is not possible to dub simultaneously when timer-programing is set. Select either dubbing or timer-programing.

### 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 the dubbing is finished, the data will be moved from HDD to DVD.
- 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 programs to DVD-R/RW disc (Video mode):
- which contains more than one audio language.
- which is on the play list.
- which is edited (also Live Memory 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  $\triangle \nabla \triangleleft \triangleright$  to select "HIGH SPEED", then press **ENTER**.

4 Press △▽⊲ ▷ 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 <> ▷ to select "EXECUTE" or "AUTO POWER OFF", then press ENTER. The dubbing screen appears for 5 seconds. To display the dubbing screen again, press ON SCREEN.
EXECUTE: Select this to continue the dubbing operations.

AUTO POWER OFF: Select this to continue the dubbing operations and turn off the unit after dubbing. While the dubbing screen is displayed, you can also select this mode by pressing **DUBBING**.

CANCEL: Select this to cancel dubbing operation.

### NOTES:

- Play lists are dubbed as programs.
- 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.

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 It is not possible during dubbing to play back on HDD or DVD or to set timer-programing.

### 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  $\triangle \nabla \triangleleft \triangleright$  to select "JUST", then press ENTER.

**4** Perform steps **4** – **5** of "High Speed Dubbing (From HDD To DVD)".

#### NOTES:

- Play lists are dubbed as programs.
- 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.
- It is not possible during dubbing to play back on HDD or DVD or to set timer-programing.

-8

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### 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  $\triangle \nabla \triangleleft \triangleright$  to select "MANUAL", then press **ENTER**.

**4** Perform step **4** of "High Speed Dubbing (From HDD To DVD)". The Manual Dubbing screen appears.

**5** Press  $\triangle \nabla$  to select "REC MODE", then press **ENTER**. Press  $\triangle \nabla$  to select the desired option, then press **ENTER**. The confirmation screen appears.

#### 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.
- It is not possible during dubbing to play back on HDD or DVD or to set timer-programing.

### **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  $\triangle \nabla \triangleleft \triangleright$  to select "TITLE", then press **ENTER**.

**4** Press  $\triangle \nabla \triangleleft \triangleright$  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 △▽ to select "EXECUTE" or "AUTO POWER OFF", then press ENTER to start dubbing.

EXECUTE: Select this to continue the dubbing operations. AUTO POWER OFF: Select this to continue the dubbing operations and turn off the unit after dubbing.

CANCEL: Select this to cancel dubbing operation.

**6** Press  $\triangleleft \triangleright$  to select "EXECUTE", then press **ENTER** for confirmation. The dubbing screen appears for 5 seconds.

#### NOTES:

It is not possible to dub play lists on DVD discs.

It is not possible to dub pre-recorded DVD VIDEO discs.

### About Disc Remaining Display

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

Capacity of a disc	Remaining capacity
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Dark green: Length of already recorded item 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 meter.

#### When performing the Manual Dubbing

- MAX FR240
- 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.

#### NOTE:

The bar meter moves up and down regularly, but this is not a malfunction.

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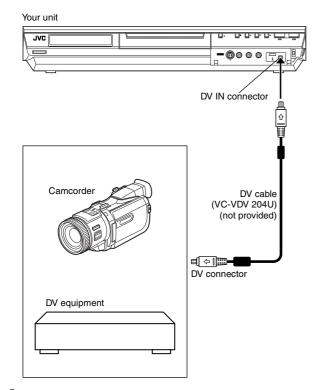
## 60 EN EDITING

## DV Dubbing

You can dub programs 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.



Connect a camcorder or DV equipment to the DV IN connector on the unit's front panel.

### 2 Press HDD.

3 Press CH +/- to set the channel to "DV".

### 4 Press ON SCREEN.

• The on-screen display for DV dubbing appears.

5 Press ⊲ ▷ to select <u>(Construction of the select</u>), then press ENTER to display the remote icon (facing to the right) for the DV equipment.

#### **6** Press $\triangleleft \triangleright$ to select

repeatedly until the desired sound track appears on the TV screen.

- AUDIO 1: Select this to record the original stereo sound played back on the connected DV equipment.
- AUDIO 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 "AUDIO 1" and "AUDIO 2".
- Note that this selection is not available when the source program is recorded in 16BIT (48 kHz) mode.
- **7** Press **REC MODE** repeatedly to set the recording mode.

- **8** Locate the point from where you want to start dubbing, then stop or pause playback by pressing the following buttons on the remote control:  $\triangleright$ ,  $\triangleright \triangleright$ ,  $\blacktriangleleft \triangleleft$ ,  $\blacksquare$ ,  $\blacksquare$
- 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 II to pause playback, then press II repeatedly. Each press of II advances a frame.
- To change the playback direction, press or -
- **9** Press  $\triangleleft \triangleright$  to select  $\blacksquare$ , then press **ENTER**. The dubbing starts.

**10** Press ⊲ ▷ to select . then press **ENTER**. Then press ■. The DV equipment stops.

- Press  $\triangleleft \triangleright$  to select we  $\boxtimes \bowtie$ , 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 programs is not possible.
- Original DV informations 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.

2 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 program.
- 3 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 program.
- 4 Perform step 9 to 12.

#### To skip unwanted part of the source picture

Press **ENTER** to stop both equipment, then press  $\lhd \triangleright$  to select **(COD)**.

Locate the point where you want to restart dubbing by pressing  $\triangleright$ ,  $\triangleright \triangleright$ , or  $\triangleleft$ , then press  $\blacksquare$ .

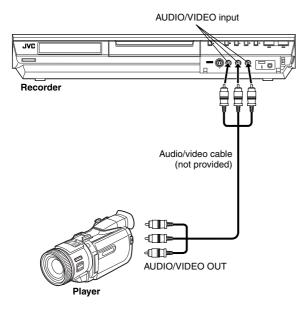
Press  $\triangleleft \triangleright$  to select  $\blacksquare \blacksquare \blacksquare \blacksquare$ , then press **ENTER** to restart dubbing.

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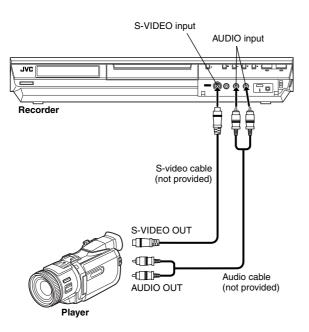
## Edit From A Camcorder

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

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



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



### • Slide the TV/CABLE/DBS/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 AUDIO/VIDEO 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.

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 repeatedly to select the recording deck.

3 Press CH +/- to select "F-1"

- Set "FRONT AUX F-1" to "VIDEO" for the VIDEO input connector, or "S-VIDEO" for the S-VIDEO input connector, depending on the connector being used. (IP pg. 68)
- **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  $\bullet$  on the unit to start recording. Or press and hold  $\bullet$  and press  $\triangleright$  on the remote control. The dubbing starts.

**7** Press  $\blacksquare$  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.

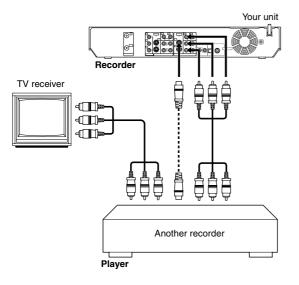
## 62 EN EDITING

## Edit To Or From Another Recorder

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

### NOTE:

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



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

### Make connections.

1 If another recorder has no S-VIDEO connector, connect the unit's AUDIO/VIDEO INPUT connectors to the audio/video output connectors on another recorder.

2 If another recorder has S-VIDEO connector, connect the AUDIO INPUT and S-VIDEO INPUT connectors to the audio and S-video output connectors on another recorder.

- If connecting a unit with an S-VIDEO connector, it is recommended to use an optional S-Video cable to minimize picture degradation while editing.
- **2** When using this unit as the recording deck, press **HDD** or **DVD** to select the recording deck.

**3** Press **CH** +/– to select "L-1" or "L-2" depending on the connectors being used.

 Set "REAR AUX L-1" or "REAR AUX L-2" to "VIDEO" for the VIDEO input connector, or "S-VIDEO" for the S-VIDEO input connector, depending on the connector being used. (IF pg. 68)

**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.

**7** Stop recording on the recording deck, then stop playback on the source player.

- All necessary cables can be obtained from your dealer.
- When you use this unit as the source player for editing, be sure to set "SUPERIMPOSE" to "OFF" before starting. (IIP pg. 69)

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## EDITING EN 63

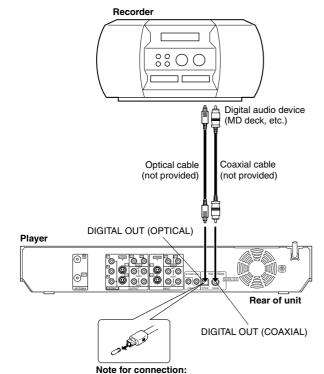
## **Digital Audio Dubbing**

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/DBS/DVD switch to DVD.

### Example: Dubbing to an MD



Remove the protection cap from the optical cable.

- 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.
- **4** 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  $\blacktriangleright$  to start playback on the unit.
- 8 Start recording on the digital audio device.
- **9** Stop recording on the digital audio device. Then press  $\blacksquare$  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.

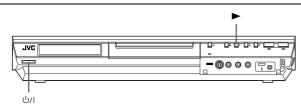
## 64 EN REMOTE CONTROL

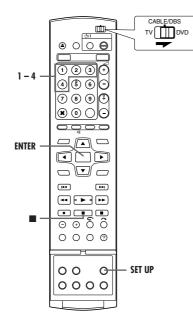
## **Remote Control Functions**

### 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 four codes (1, 2, 3 or 4). The remote control is preset to send 3 code signals because your unit is initially set to respond to 3 code signals. You can easily modify your unit to respond to 1, 2 or 4 code signals.

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





• Keep pressing SET UP down during step 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.

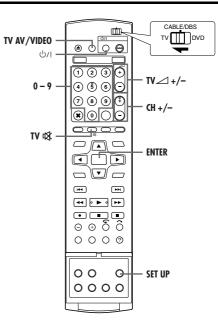
2 Press U/I on the unit to turn off the unit.

**3** Press  $\blacktriangleright$  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" (IF pg. 69), 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/DBS/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.
- Enter your TV's brand code using the **number keys**, then press ENTER.

2 Press U/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: 0/1, TV/ VIDEO, CH +/-, TV VOLUME +/-, TV MUTING, number keys.  $\bullet$  For some brands of TVs, you must press ENTER after having

pressed the number kevs.

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

### Cable Box Or DBS Receiver Multi-Brand Remote Control

Your remote control can operate the basic functions of your cable box or DBS (Direct Broadcast Satellite) receiver set. In addition to JVC cable boxes or DBS receivers, other manufacturer's cable boxes or DBS receivers can also be controlled.

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

• Keep pressing SET UP down during step 1.

**1** Enter your cable box or DBS receiver's brand code using the **number keys**, then press **ENTER**.

**2** Press  $\bigcirc$ // on the unit's remote control to turn on the cable box or DBS receiver and try operations ( $\square P$  step **3**).

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

**3** Press the corresponding buttons to operate the cable box or DBS receiver:  $(\Delta/I)$ , CH +/-, number keys.

- For some brands of cable box, you must press ENTER after having pressed the number keys.
- The **number keys** may not function with some cable boxes.

### IMPORTANT:

It may not work with your cable box, or in some instances, may have limited function capability.

#### NOTES:

- You must set the brand for your remote control and for your Controller (IP pg. 24) separately. The list of brands that can be controlled by your remote control is different from the list of brands that can be controlled by your controller.
- It's not possible to operate a cable box or DBS receiver that is not equipped with a receiving window.
- It's not possible to set the remote control for both your cable box and a DBS receiver at the same time. You can only set the remote control to operate one of these units at a time.

## REMOTE CONTROL EN 65

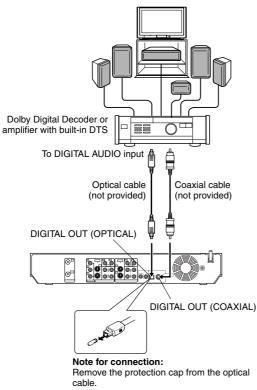
CABLE BOX BRAND	CODE
ARCHER	01, 05, 17
CABLETENNA	01, 17
CABLEVIEW	15, 16, 17, 21, 25
CITIZEN	15, 16, 17, 21, 25
CURTIS	02
DIAMOND	01, 17
GC BRAND	15, 16, 17, 21, 25
GEMINI	15
GENERAL INSTRUMENTS	01, 04, 06, 11, 12, 15, 28
HAMLIN	10, 18, 23
JASCO	15
JERROLD	01, 04, 06, 11, 12, 15, 28
NOVAVISION	02
OAK	07
PANASONIC	13, 14
PULSER	15, 16, 17, 21, 25
RCA	13, 14
REGAL	10, 18, 23
REMBRANDT	01, 16, 17
SAMSUNG	05, 16, 24
SCIENTIFIC ATLANTA	02
SIGMA	07
SL MARX	05, 16, 17, 24, 25
SPRUCER	13, 14
STARGATE	05, 15, 16, 17, 21, 24, 25
TELEVIEW	05, 16, 24
TOCOM	01, 04, 16
UNIKA	01, 17
UNIVERSAL	16, 17, 25
VIDEOWAY	03, 09, 22
ZENITH	03, 09, 22

DBS RECEIVER BRAND	CODE
JVC (DISH Network) ECHOSTAR (DISH Network) SONY (DSS) RCA (DSS)	51 51 41 40

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## **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". (IIIF pg. 67) ● For DTS sound, set "DIGITAL AUDIO OUT" to "STREAM/PCM".
- (🖙 pg. 67)

### **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.

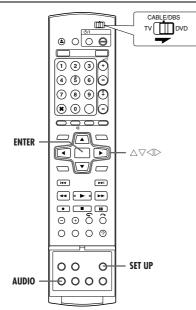
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## Mode Set

- Turn on the unit.
- Turn on the TV and select the AV mode.
- Slide the TV/CABLE/DBS/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 67 through 68), then follow the procedure below.

DVD VIDEO SET UP	LANGUAGE SET (IF pg. 21) AUDIO OUTPUT (IF pg. 67) PARENTAL LOCK (IF pg. 36) DISC PLAY SET UP (IF pg. 68)
HDD/DVD SET UP	HDD SET UP (127 pg. 68) DVD SET UP (127 pg. 68) DISC SET UP (127 pg. 71, 72)
FUNCTION SET UP	REC/PLAY SET UP (☞ pg. 68) DISPLAY SET (☞ pg. 69) VIDEO IN/OUT (☞ pg. 26, 68)
INITIAL SET UP	TUNER SET (☞ pg. 23) STB SET (☞ pg. 24) CLOCK SET (☞ pg. 22)

• The procedure below shows how to set the desired option of the "2ND AUDIO REC" mode as an example.

Press SET UP to access the Main Menu screen.

**2** Press  $\triangleleft \triangleright$  to select "FUNCTION SET UP", then press  $\bigtriangledown$ .

**3** Press  $\triangleleft \triangleright$  to select "REC/PLAY SET UP", then press  $\bigtriangledown$ .

**4** Press  $\triangle \nabla$  to select "2ND AUDIO REC", then press **ENTER**.

**5** Press riangle 
abla to select the desired option, then press ENTER.

6 Press SET UP to complete the setting.

DVD VIDEO SET UP HDD/I	DVD SET UP FUNC	TION SET UP	INITIAL SET UP
REC/PLAY SET UP DIS	SPLAY SET VIE	EO IN/OUT	
		_	
XP MODE REC AUDI	0	DOLBY	DIGITAL
2ND AUDIO REC		0	FF
JUMP TIME		15MIN	
SELECT WITH [ <>> ] THEN PRESS [ENTER]			
EXIT			

### SUBSIDIARY SETTINGS EN 67

\* 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 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 functions also 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 OUTPUT 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 OUTPUT 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 program encoded in Dolby Digital format.

This function takes effect when a DVD VIDEO disc recorded in Dolby Digital format is played back at low or middle volume.

NORMAL: Normally select this setting to activate this function. WIDE RANGE: Select this to deactivate this function when you enjoy wide dynamic range program.

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

#### NOTES:

- This function takes no effect on programs other than that recorded in Dolby Digital format.
- This function dose not work when Simulated Surround Effect is activated. (pg. 34)
- 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 analog audio to accommodate the unit to the connected A/V equipment.

STANDARD: Normally select this setting.

LOW: The output level of analog audio is lowered.

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### 68 EN SUBSIDIARY SETTINGS

### **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. (IF pg. 29)

OFF: You cannot use the resume function.

**ON**: 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.

#### NOTE:

"DISC RESUME" setting works on DVD VIDEO, VCD, SVCD and already finalized 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" (🖙 pg. 43).

### 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 "Modify 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.

MAIN: 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 a high-quality audio sound.

**DOLBY DIGITAL:** To record in Dolby Digital format. LINEAR PCM: To record in Linear PCM format.

#### 2ND AUDIO RECORD — OFF /ON When this function is set to "ON";

If a SAP program is received, the SAP audio is recorded on L/R tracks. The main audio is not recorded.

If a non-SAP program is received, the main audio is recorded on I /R tracks

When this function is set to "OFF", the SAP audio cannot be recorded.

### NOTE:

When the channel is changed on the unit;

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

### ■ 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) or recording (or Live Memory Recording). For details, refer to "Jump Search" (r pg. 45)

### VIDEO IN/OUT

MONITOR TYPE — 4:3LB / 4:3PS / 16:9 AUTO / 16:9 FIX You can select the monitor type depending on the TV used when you play back DVD VIDEO discs recorded for wide-screen TVs. For details, refer to "Monitor Set" (IF pg. 26).

### ■ FRONT AUX F-1 — VIDEO / S-VIDEO

Select the appropriate mode depending on the connector (F-1) being used on the front panel.

VIDEO: To use the VIDEO input connector on the front panel. S-VIDEO: To use the S-VIDEO input connector on the front panel.

#### REAR AUX L-1 — VIDEO / S-VIDEO

Select the appropriate mode depending on the connector (L-1) being used on the rear panel.

VIDEO: To use the VIDEO INPUT connector on the rear panel. S-VIDEO: To use the S-VIDEO INPUT connector on the rear panel.

#### REAR AUX L-2 — VIDEO / S-VIDEO

Select the appropriate mode depending on the connector (L-2) being used on the rear panel.

**VIDEO**: To use the VIDEO INPUT connector on the rear panel. S-VIDEO: To use the S-VIDEO INPUT connector on the rear panel. DR-MH30UJ\_00.book Page 69 Monday, July 12, 2004 3:17 PM

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### **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. (IP pg. 21)

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. (IF pg. 62)
- 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 / DIMMED1 / DIMMED2 / OFF

You can change the brightness of the front display panel.

BRIGHT: Normally select this.

DIMMED1/DIMMED2: To change the brightness level. (Blue lamp on the front display panel becomes dimmer.)

OFF: 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.
- 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 Program Recording mode is engaged.
   (IP pg. 50)
- 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 3 different languages.

For details, refer to "On-screen Language Set" (IF pg. 21).

## Scan Mode Set

If you connect the unit and TV with Component Video Connection ( $\square p$  g. 19), 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 higherquality images.

SUBSIDIARY SETTINGS EN 69

### 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.

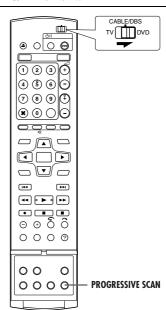
### Progressive scan

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 Progressive.

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



- Press **PROGRESSIVE SCAN** for 3 or more seconds.
- Video output indicator (P) lights on the front display panel if Progressive scan mode has been established. (CP pg. 14)
- Each press of PROGRESSIVE SCAN for 3 or more seconds switches the scan mode.

- 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 S-VIDEO OUTPUT connectors and VIDEO/AUDIO
  - output from S-VIDEO OUTPUT connectors and VIDEO/AUDIO OUTPUT connectors.

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### 70 EN SUBSIDIARY SETTINGS

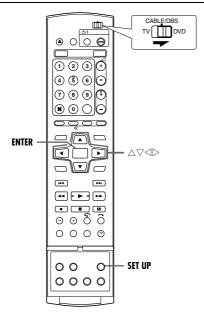
## Changing VCR Plus+<sup>®</sup> Setting

The VCR Plus+ programing system assigns a VCR Plus+ guide channel to the TV channels and the cable channels. These guide channel numbers are also called the VCR Plus+ channel codes. Most TV listings have a section, usually a chart, indicating the guide channel numbers assigned to each station.

To ensure that VCR Plus+ timer recording operates correctly, it is necessary to set the "VCR Plus+ Guide Channel" for each station. If you have moved to a different area or if a broadcasting station's channel number has been changed, perform the following steps to set the correct guide channel number.

### NOTES:

- In many instances, the VCR Plus+ guide channel numbers for cable and broadcast TV stations DO NOT match the channel number on which it is received by your unit or cable box. Check your TV listing, or contact your cable supplier for details.
- Many TV stations can be viewed on cable. Check your TV listing, or contact your cable supplier for details.
- Turn on the unit.
- Turn on the TV and select the AV mode.
- Slide the TV/CABLE/DBS/DVD switch to DVD.



### **Guide Channel Number Set**

- Press **SET UP** to access the Main Menu screen.
- **2** Press  $\lhd \triangleright$  to select "INITIAL SET UP", then press  $\bigtriangledown$ .
- **3** Press  $\lhd \triangleright$  to select "TUNER"
- SET", then press  $\bigtriangledown$ .

then press ENTER.

Then press ENTER.

**4** Press  $\triangle \nabla \triangleleft \triangleright$  to select "GUIDE CH SET", then press **ENTER**.

**5** Press  $\triangle \nabla$  to select "GUIDE CH",

**6** Press  $\triangle \nabla$  to select the Guide

Channel number for the desired

• To change the Guide Channel number in 10 increments, press and

station as shown in the TV listings.

#### THER STUP STI ST UP STI ST UP CLOCK ST UP CLCCK ST UP SLCCK ST UP

ET UP FUNCTION SET UP INITIAL SET U

hold △▽.
If you receive your channels with a cable box and if you have properly set your Controller, "CABLE CH" appears in place of "HDD/DVD CH". If not, perform "Cable Box and/or DBS Receiver Control Setting" (ICF pg. 24).

**7** Press  $\triangle \nabla$  to select "HDD/DVD CH", then press **ENTER**. Press  $\triangle \nabla$  to select the number of the unit's channel position on which the Guide Channel Number's broadcast is received by the unit or the DBS receiver. Then press **ENTER**.

- To timer-record a satellite program with the VCR Plus+ system, you need to install the provided Satellite Controller and perform the procedure described in "Cable Box and/or DBS Receiver Control Setting" (IP pg. 24).
- Repeat steps 5 7 as necessary.

8 Press SET UP to complete the setting.

#### **Guide Channel Number**

"Guide Channel (GUIDE CH) Number" refers to the assigned TV station numbers, according to broadcast area, for the VCR Plus+ timer recording. The Guide Channel Numbers can be found in most TV listings.

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## Format A Disc (DVD Deck Only)

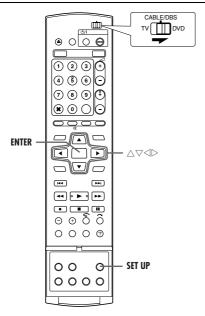


Some DVD-RAM/RW discs are unformatted.

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 AC 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/DBS/DVD switch to DVD.
- Load a DVD-RAM/RW disc to format.



## SUBSIDIARY SETTINGS EN 71 Format A DVD-RAM Disc

- Press SET UP to access the Main Menu screen.
- **2** Press  $\lhd \triangleright$  to select "HDD/DVD SET UP", then press  $\bigtriangledown$ .
- **3** Press  $\lhd \triangleright$  to select "DISC SET
- UP", then press  $\nabla$ .

**4** Press  $\triangle \nabla \triangleleft \triangleright$  to select "FORMAT", then press **ENTER**. Press  $\triangleleft \triangleright$  to select "OK", then

press ENTER. **5** Press  $\triangleleft \triangleright$  to select "OK", then

press ENTER.



### Format A DVD-RW Disc

Perform steps 1 to 3 of "Format A DVD-RAM Disc" on the above before continuing.

**2** Press  $\triangle \nabla \triangleleft \triangleright$  to select "FORMAT", then press **ENTER**. Press  $\triangleleft \triangleright$  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

"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. **3** Press  $\lhd \, \triangleright$  to select "OK", then press **ENTER**.

- It is impossible to format Version 1.0 DVD-RW discs in Video mode.
- It is impossible to format Version 1.0 DVD-TWV 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. (LF pg. 53)

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### 72 EN SUBSIDIARY SETTINGS

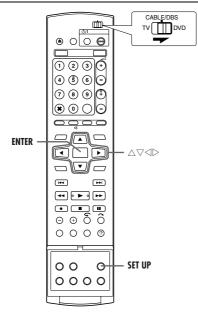
## Finalize A Disc (DVD Deck Only)



Finalizing 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 finalized 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. ( ${\it cr}$  pg. 52)

- Turn on the unit.
- Turn on the TV and select the AV mode.
- Slide the TV/CABLE/DBS/DVD switch to DVD.
- Load a DVD-R/RW disc to finalize.



### Before finalizing

- It is possible to record on a blank space.
- It is possible to enter title names. (IF pg. 52)
- It is possible to delete titles. (137 pg. 53)
- 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 finalized.

#### After finalizing (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 finalized 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 finalizing will be deleted, and titles will be divided automatically into "chapters" approximately every 5 minutes. (IP pg. 29)
- 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.

### Finalize A DVD-R/RW Disc

- Perform steps 1 to 3 of "Format A DVD-RAM Disc" (IF pg. 71) before continuing.
- **2** Press  $\triangle \nabla \triangleleft \triangleright$  to select "FINALIZE", then press ENTER.
- Press  $\triangleleft \triangleright$  to select "OK", then press **ENTER**.
- **3** Press  $\lhd \triangleright$  to select "OK", then press **ENTER**.
- 4 Press SET UP to return to the normal screen.
- Menu screen is cleared.
- Once a DVD-R/RW (Video mode) disc has been finalized, the displays for original and play list do not appear. Only display for library appears.
- Once a DVD-RW (VR mode) disc has been finalized, it can be played on DVD players compatible with VR mode.

### **Cancel The Finalization Of A DVD-RW Disc**

Load a DVD-RW disc to cancel the disc finalization, and perform steps 1 to 3 of "Format A DVD-RAM Disc" (IF pg. 71) before continuing.

- **2** Press  $\triangle \nabla \triangleleft \triangleright$  to select "CANC. FINALIZ.", then press ENTER.
- **3** Press  $\triangleleft \triangleright$  to select "OK", then press **ENTER**.
- 4 Press SET UP to return to the normal screen.
- When the disc finalization is cancelled, the mode in which the disc was formatted is restored, making the disc recordable. (IFP pg. 9, 71)

Filename [DR-MH30UJ\_10Subsidiary.fm]

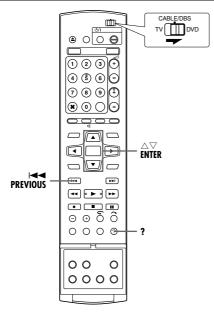
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## **Help Function**

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/DBS/DVD switch to DVD.



- 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 those for the DVD deck.
- **2** Press  $riangle \nabla$  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 riangle 
  abla.
- To return to a previous page, press RETURN.
- **3** Press **?** to return to the normal screen.

### NOTE:

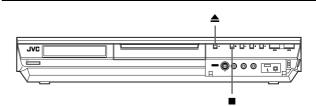
You cannot perform playback, recording, timer recording, or other normal operations while accessing the help screen.

# Tray Lock (DVD Deck Only)

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

SUBSIDIARY SETTINGS EN 73

### • Turn off the unit.



### To lock tray

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

### To unlock tray

While the unit is turned off, press and hold  $\blacksquare$ , then press  $\triangleq$  on the unit. "UNLOCK" appears on the front display panel.

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## 74 EN TROUBLESHOOTING

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.

### Initializing (DVD Deck Only)

### Malfunction occurs on the unit.

→ Press ⊍/I to turn off the unit, press and hold ⊍/I, then press ■ for two seconds or more.

### General

### No power is supplied to the unit.

- The AC power plug is disconnected from the AC outlet.
- →Connect the AC power plug to the AC outlet securely. (IF pg. 19)

### 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. (IF pg. 64)
- 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. (IF pg. 62)

### The on-screen display superimposed on the program played back/received on this unit is recorded when you dub the program to an external recording equipment.

→Set "SUPERIMPOSE" to "OFF". (IIF pg. 69)

### 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 ⊕/I to turn the power off, then press the button again to turn the power on.

### Playback (DVD Deck)

### The DVD deck cannot be operated.

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- 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 program is played back, progressive scan mode is selected.
- → Press and hold **PROGRESSIVE SCAN** until **P** disappears from the front display panel. (*L* pg. 69)

## Playback dose 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. (LF pg. 10)
- A disc not being compatible with the unit is loaded.
- →Load a playable disc on the unit. (IF pg. 7)
- A dirty disc is loaded.
- →Clean the disc. ( $\square$  pg. 11)
- 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. (IF pg. 36)

### 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.

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### **Recording (DVD Deck)**

### The desired program cannot be recorded.

- The channel position does not correspond to that in the receiving area.
- → Set the correct channel position for the receiving broadcast. (L= pg. 23)

### Recording cannot be made.

- No disc or a disc not being compatible with the unit is loaded.
- →Load a recordable disc on the unit. (IF pg. 7)
- The disc loaded is not formatted.
- →Format the disc. (IF pg. 71)
- A finalized DVD-R disc is loaded.
- → Recording cannot be made on finalized 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. (L=pg. 53)
- The DVD-RAM disc loaded has had its protect tab slid to the protect position.
- →Release the protect tab. (IF pg. 10)

### **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.
- $\rightarrow$  Confirm that the camcorder is properly connected.
- The input mode is not correct.
- → Set the input mode to "F-1". (IF pg. 61)

# TROUBLESHOOTING EN 75

### Timer Recording

### Timer programing cannot be made.

- Date and time is not correct.
- →Set date and time correctly. (IF pg. 22)
- Timer recording is in progress.
- → Timer programing can't be performed while a timer recording is in progress. Wait until it finishes.

### Timer programing recording does not start.

- Date and time is not correct.
- → Set date and time correctly. (IF pg. 22)

#### VCR Plus+ Timer Programing cannot be made.

- Date and time set on the unit is not correct.
- → Set date and time correctly. (IF pg. 22)
- The channel position does not correspond to that in the receiving area.
- → Set the correct channel position for the receiving broadcast. (I pg. 23)

### The VCR Plus+ system does not timer-record properly.

- The unit's channel positions have been set incorrectly.
- →Refer to "Changing VCR Plus+<sup>\*</sup> Setting" (☞ pg. 70) and reperform the procedure.

### Automatic Satellite Program Recording does not start.

The DBS receiver is not connected properly to this unit.
 →Connect the DBS receiver to the AUDIO/VIDEO INPUT (L-1) connectors properly. (I pg. 50)

#### On the front display panel, "----" appears.

• Power failure occurred.

→ Set date and time correctly. (IF pg. 22)

## "PROGRAM FULL" appears on the TV screen during timer programing.

- 32 programs have already been timer programed.
- →Clear unnecessary programs on the unit, then try timer programing again. (□¬ pg. 49)

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. 11, 71)

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## 76 EN TROUBLESHOOTING

### **Other Problems**

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

### For AV/S-video connection

→ Press PROGRESSIVE SCAN for 3 or more seconds so that the Video output indicator (P) 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 (P) 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. (IF pg. 23)

### The channel cannot be changed.

- Recording or Live Memory recording\* is in progress.
- → Press II to pause the recording, change channels, then press 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 "Manual Clock Set" (I pg. 22).

## Even though Auto or Semiauto Clock Set has been performed, the clock is incorrect.

- The clock setting data received from the host channel is incorrect.
- →Select a different host channel during "Semiauto Clock Set" (I pg. 22), or perform "Manual Clock Set" (I pg. 22).

### **On-screen Message**

## DISC NOT REGISTERED IN THE LIBRARY REGISTER DISC?

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• A disc that is not registered in the library has been inserted. Register the disc as necessary. (IP pg. 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 999.

#### SET CLOCK BEFORE TIMER PROGRAMING

• To set the timer program, the clock must be set in advance. (  $\ensuremath{\mathbb{I}}\xspace^{2}$  pg. 22)

### PROGRAM FULL

### DELETE UNWANTED TIMER PROGRAMS

 You can program this unit to timer-record as many as 32 programs. To program more, you need to cancel a timer program already set. (IFP pg. 49)

### DISC NOT LOADED

• Operation has been attempted when a disc is not loaded, or loaded upside down. (IFP pg. 10)

### DISC NOT RECORDABLE INSERT RECORDABLE DISC

 When a playback-only disc or a finalized disc is loaded, ● has been pressed. (□ pg. 7) DR-MH30UJ\_00.book Page 77 Monday, July 12, 2004 3:17 PM

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### PLUSCODE NO. ERROR CONFIRM PLUSCODE NO. THEN RETRY

• An invalid PlusCode number has been input. (17 pg. 46)

#### GUIDE CHANNEL IS NOT SET SET GUIDE CHANNEL THEN RETRY

 To set the timer program using the VCR Plus+ system, the Guide Channel Number must be set in advance. (IF pg. 70)

## CAN NOT SET VCR PLUS TIMER PROGRAMING DURING TIMER RECORDING OR INSTANT TIMER RECORDING

 Appears when you tried to input a PlusCode 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. (IFP pg. 8)

### UNREADABLE DISC

### CHECK DISC

When an incompatible disc is loaded, ► has been pressed.
 (□ pg. 8)

## 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. (IF pg. 11, 71)

### CAN NOT FINALIZE THIS DISC

 Finalizing is not complete since the disc may be dirty or damaged. Take out the disc, clean it and retry. (IF pg. 11, 72)

## CAN NOT CANCEL FINALIZATION OF THIS DISC

 Cancelling disc finalization is not complete since the disc may be dirty or damaged. Take out the disc, clean it and retry. (P pg. 11, 72)

## TROUBLESHOOTING EN 77

### PRESS [STOP] AGAIN TO STOP RECORDING

During Live Memory playback, ■ has been pressed. (IF pg. 44)

### 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. (IF pg. 60)

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## **78** EN SPECIFICATIONS

### GENERAL

**Power requirement** AC 110 - 240 V ∼, 50/60 Hz **Power consumption** Power on: 37 W Power off: 19.3 W Temperature Operating: 5°C to 40°C (41°F to 104°F) Storage: -20°C to 60°C (-4°F to 140°F) **Operating position** Horizontal only Dimensions (WxHxD) 435 mm x 70 mm x 345.5 mm (17-3/16" x 2-13/16" x 13-5/8") Weight 6.1 kg (13.5 lbs) Input/Output S-video input: Y: 0.8 - 1.2 Vp-p, 75 ohms C: 0.2 – 0.4 Vp-p, 75 ohms S-video output: Y: 1.0 Vp-p, 75 ohms C: 0.3 Vp-p, 75 ohms Video input: 0.5 - 2.0 Vp-p, 75 ohms (pin jack) Audio input: -8 dB, 50 kilohms (pin jack) Corresponding to mono (left) Audio output: -8 dB, 1 kilohms (pin jack) i.Link: 4-pin for DV input Component video output: Y: 1.0 Vp-p, 75 ohms CB/CR, PB/PR: 0.7 Vp-p, 75 ohms Corresponding to copy protection Digital audio output: Optical: -18 dBm, 660 nm Coaxial: 0.7 Vp-p, 75 ohms Corresponding to Dolby Digital and DTS Digital Surround Bit stream Selectable in digital audio output setting menu **RCA** connectors: IN x 3, OUT x 2

### VIDEO/AUDIO (DVD Deck)

**Recording time** 

Maximum 8 hours (with 4.7 GB disc) (XP): Approx. 1 hour (SP): Approx. 2 hours (LP): Approx. 2 hours (EP): 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 MPEG2 (CBR/VBR)

### VIDEO/AUDIO (HDD Deck)

Video recording compression system MPEG2 (VBR) Audio recording system Dolby Digital (2 ch) Linear PCM (XP mode only) Recording time

		DR-MH30S	DR-MH20S
HDD capacity		160 GB	80 GB
Recording Time			
XP	1 hour	Approx. 34 hours	Approx. 17 hours
SP	2 hours	Approx. 68 hours	Approx. 34 hours
LP	4 hours	Approx. 136 hours	Approx. 68 hours
EP	6 hours	Approx. 204 hours	Approx. 102 hours
FR480	8 hours	Approx. 272 hours	Approx. 136 hours

#### TUNER/TIMER

Channel coverage VHF: Channels 2 – 13 UHF: Channels 14 – 69 CATV: 113 Channels Memory backup time Approx. 60 seconds

### ACCESSORIES

Provided accessories RF cable, Audio/Video cable, Conversion plug, Satellite Controller, Infrared remote control unit, "AA" 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 AC 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.

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## Language Code List

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APPENDIX EN 79

<u>j</u>	90 0000 1151				
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	КК	Kazakh	SH	Serbo-Croatian
BA	Bashkir	KL	Greenlandic	SI	Singhalese
BE	Byelorussian	KM	Cambodian	SK	Slovak
BG	Bulgarian	KN	Kannada	SL	Slovenian
BH	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	ТА	Tamil
EL	Greek	MI	Maori	TE	Telugu
EO	Esperanto	MK	Macedonian	TG	Tajik
ET	Estonian	ML	Malayalam	TH	Thai
EU	Basque	MN	Mongolian	ТІ	Tigrinya
FA	Persian	MO	Moldavian	ТК	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	OC	Occitan	TW	Twi
GU	Gujarati	OM	(Afan) Oromo	UK	Ukrainian
HA	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	ХН	Xhosa
IE	Interlingue	RM	Rhaeto-Romance	YO	Yoruba
				ZU	Zulu

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## 80 EN APPENDIX

## Country/Area Code List for Parental Lock

AD	Andorra	СК	Cook Islands	GN	Guinea
AE	United Arab Emirates	CL	Chile	GP	Guadeloupe
AF	Afghanistan	СМ	Cameroon	GQ	Equatorial Guinea
AG	Antigua and Barbuda	CN	China	GR	Greece
AI	Anguilla	со	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	СХ	Christmas Island	GY	Guyana
AQ	Antarctica	CY	Cyprus	НК	Hong Kong
AR	Argentina	CZ	Czech Republic	HM	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
BA	Bosnia and Herzegovina	DZ	Algeria	IE	Ireland
BB	Barbados	EC	Ecuador	IL	Israel
BD	Bangladesh	EE	Estonia	IN	India
BE	Belgium	EG	Egypt	IO	British Indian Ocean Territory
BF	Burkina Faso	EH	Western Sahara	IQ	Iraq
BG	Bulgaria	ER	Eritrea	IR	Iran (Islamic Republic of)
BH	Bahrain	ES	Spain	IS	Iceland
BI	Burundi	ET	Ethiopia	IT	Italy
BJ	Benin	FI	Finland	JM	Jamaica
BM	Bermuda	FJ	Fiji	JO	Jordan
BN	Brunei Darussalam	FK	Falkland Islands (Malvinas)	JP	Japan
BO	Bolivia	FM	Micronesia (Federated States of)	KE	Kenya
BR	Brazil	FO	Faroe Islands	KG	Kyrgyzstan
BS	Bahamas	FR	France	КН	Cambodia
BT	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	1	· · · · · · · · · · · · · · · · · · ·		•

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LC	Saint Lucia	NU	Niue	SZ	Swaziland
LI	Liechtenstein	NZ	New Zealand	тс	Turks and Caicos Islands
LK	Sri Lanka	ОМ	Oman	TD	Chad
LR	Liberia	PA	Panama	TF	French Southern Territories
LS	Lesotho	PE	Peru	TG	Тодо
LT	Lithuania	PF	French Polynesia	TH	Thailand
LU	Luxembourg	PG	Papua New Guinea	TJ	Tajikistan
LV	Latvia	PH	Philippines	ТК	Tokelau
LY	Libyan Arab Jamahiriya	PK	Pakistan	ТМ	Turkmenistan
MA	Morocco	PL	Poland	TN	Tunisia
MC	Monaco	PM	Saint Pierre and Miquelon	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	ΤV	Tuvalu
MM	Myanmar	PY	Paraguay	TW	Taiwan
MN	Mongolia	QA	Qatar	TZ	Tanzania, United Republic of
MO	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	ΥT	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

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