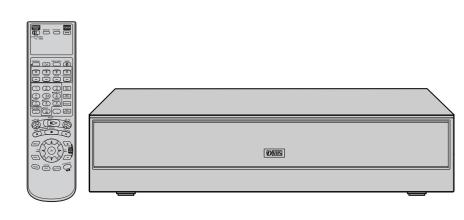


# **D-VHS DIGITAL RECORDER**

# MV8300/U1B







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.

LPT0698-001A



2/13/3, 2:44 PM



# **2** EN

#### Dear Customer,

Thank you for purchasing the JVC D-VHS video cassette recorder. Before use, please read the safety information and precautions contained in the following pages to ensure safe use of your new VCR.

# **CAUTIONS**



# CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK.

DO NOT REMOVE COVER (OR BACK).

NO USER-SERVICEABLE PARTS INSIDE.

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.

#### **WARNING:**

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

#### CAUTION:

This video cassette recorder should be used with AC  $120V_{\sim}$ , 60Hz only.

To prevent electric shocks and fire hazards, DO NOT use any other power source.

#### **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.

#### NOTE:

Change or modifications not approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna. Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio/TV technician for help.

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.

VCR Plus+,  $C^3$  and PlusCode are registered trademarks of Gemstar Development Corporation.

The VCR Plus+ system is manufactured under license from Gemstar Development Corporation.

 $\mathsf{DSS^{TM}}$  is an official trademark of DIRECTV, Inc., a unit of GM Hughes Electronics. DISH Network<sup>TM</sup> is a trademark of Echostar Communications Corporation.

D-Theater is a technical specification based on D-VHS standards that was developed for HD content. Commercial D-Theater titles can only be played back on D-VHS digital recorders bearing the D-Theater logo.



MTP NTSC





- Cassettes marked "D-VHS", "S-VHS" and "VHS" can be used with this video cassette recorder. However, D-VHS recordings are possible only with cassettes marked "D-VHS".
   By using S-VHS ET it is possible to record and play back with S-VHS picture quality on VHS cassettes with this VCR.
- D-VHS is a new digital memory system that uses D-VHS tapes. D-VHS was developed as a memory system for multimedia applications that require storage for large volumes of information, such as for digital video.
- Manufactured under license from Dolby Laboratories.
   "Dolby", "Pro Logic", and the double-D symbol are trademarks of Dolby Laboratories. Confidential unpublished works. Copyright 1992-1997 Dolby Laboratories. All rights reserved.







### <del>-</del>

# 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.

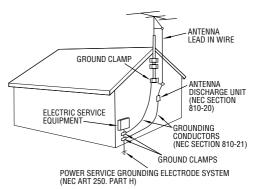
#### 2. Lightning

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







#### 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 shortout 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.

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

- The Index on pages 79 86 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.
- The 🖙 mark signals a reference to another page for instructions or related information.
- Operation buttons necessary for the various procedures are clearly indicated through the use of illustrations at the beginning of each major section.

#### BEFORE YOU INSTALL YOUR NEW VCR . . .

- . . . please read the sections/literature listed below.
- "CAUTIONS" on page 2.
- "IMPORTANT PRODUCT SAFETY INSTRUCTIONS" on the previous page.







#### Failure to heed the following precautions may result in damage to the VCR, Remote or video cassette.

#### 1. DO NOT place the VCR...

- ... in an environment prone to extreme temperatures or humidity.
- ... in direct sunlight.
- ... in a dusty environment.
- ... in an environment where strong magnetic fields are generated.
- ... on a surface that is unstable or subject to vibration.

#### 2. DO NOT block the VCR's ventilation openings or holes.

(If the ventilation openings or holes are blocked by a newspaper or cloth, etc., the heat may not be able to get out.)

- 3. **DO NOT** place heavy objects on the VCR or Remote.
- 4. DO NOT place anything which might spill on top of the VCR or Remote.
- (If water or liquid is allowed to enter this equipment, fire or electric shock may be caused.)
- 5. DO NOT expose the apparatus to dripping or splashing.
- 6. DO NOT use this equipment in a bathroom or places with water. Also DO NOT place any containers filled with water or liquids (such as cosmetics or medicines, flower vases, potted plants, cups, etc.) on top of this unit.
- 7. DO NOT place any naked flame sources, such as lighted candles, on the apparatus.
- 8. AVOID violent shocks to the VCR during transport.

#### **ABOUT HEAD CLEANING**

After an extended period of use, the video heads can become dirty, resulting in a loss of picture or sound during playback. If this happens, clean the video heads by using the optional cleaning tapes.

- The heads get dirty in the following cases:
  in an environment prone to extreme
  - temperature or humidity
- in a dusty environment
- flaw, dirt or mold on video tapes
- continuous usage for a long time

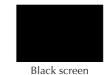
#### Symptoms of dirty video heads:

- The picture is not clear, or does not appear. There is no sound.
- Mosaic (block) noise appears in the picture.
- Black or mosaic horizontal stripes appear in the picture.
- The picture stops (as if the tape is paused).
- A blank black or blue screen appears.
- The picture is fuzzy. (VHS playback)

# VHS playback Early symptom Late symptom







Block noise

Still image

#### Use a cleaning tape designed specifically for D-VHS video heads (JVC D-VHS video head cleaner DFC-2) to clean the video heads.

- In order to avoid misoperation, set "NAVIGATION" to "OFF" ( pg. 43).
- Follow the instructions that are provided with the cleaning tape.

#### If you still do not get a clear picture after using a cleaning tape:

- The heads may be worn. Contact your nearest JVC dealer.
- During VHS playback, if there is a tracking problem, the picture may appear fuzzy. Adjust the tracking manually ( pp. 23).

#### **ATTENTION:**

#### To mobile phone users:

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

#### On placing the VCR:

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





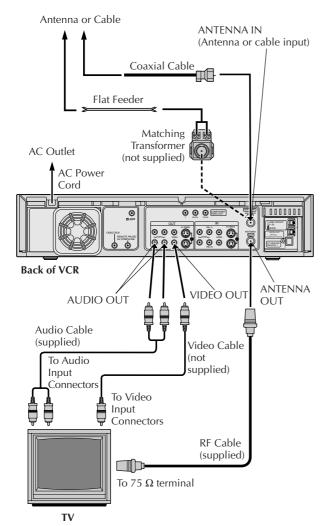
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### -

# **Connections**



#### **Basic Connection**



#### **Check contents**

Make sure the package contains all of the accessories listed in "SPECIFICATIONS" (F) pg. 87).



#### Situate VCR

Place the VCR on a stable, horizontal surface.



#### **Connect VCR to TV**

The following connections are required.

- ① Disconnect the TV antenna from the TV.
- ② Connect the TV antenna cable to the ANTENNA IN terminal on the rear of the VCR.
- 3 Connect the supplied RF cable between the ANTENNA OUT terminal on the rear of the VCR and the TV's antenna input terminal.
- ◆ Connect an audio/video cable between the AUDIO/VIDEO OUT connectors on the rear of the VCR and the audio/video input connectors on the TV.

#### **S-VIDEO Connection**

• If you have a TV with S-VIDEO input terminals, see "S-VIDEO Connection" on page 8.

#### **Component Video Connection**

• If you have a TV with component video input terminals, see "Component Video Connection" on page 8.



#### Connect VCR to power source

Connect the AC power plug to the AC outlet.

• The clock and tuner channels will automatically be set when the antenna is connected and when the AC power cord is first connected to an AC power outlet ( p. 9).

(If "Auto" or channel numbers are displayed on the front display panel before the VCR is turned on, the clock and tuner channels are being set automatically. Wait until the clock time is displayed on the front display panel before turning on the VCR.)



#### Final preparation for use

Turn on the VCR.

• You can now perform basic playback (F. pg. 21) or basic recording (F. pg. 26).

#### **NOTES:**

- Your TV must have audio/video input connector for the connection to the VCR.
- Even if you are using audio/video cables to connect your VCR to your TV, you must also connect it using the RF cable. This will ensure that you can record one show while watching another ( pg. 29).
- For full identification of the VCR's rear panel, refer to the Index ( pg. 83).
- If you cannot see the pictures on the TV screen when you play back a tape, set "TV OUTPUT 1" to the appropriate mode ( pg. 56).



HM-DH40000U-EN01-09

1/28/3, 9:51 AM

#### **S-VIDEO Connection**

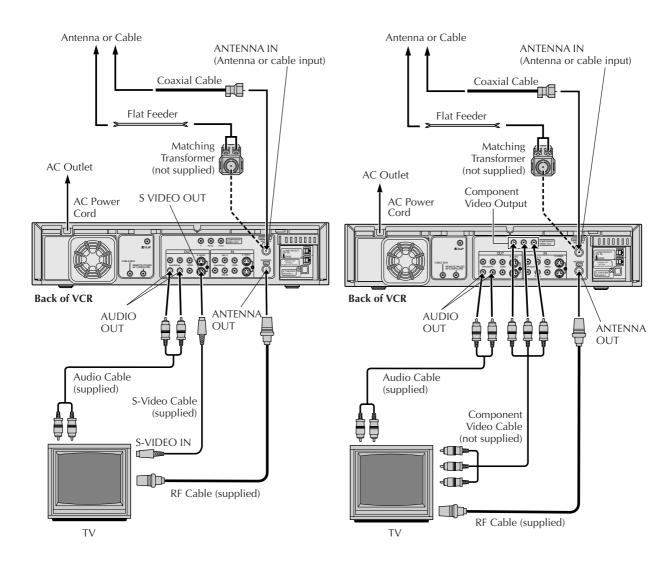
#### CONNECT VCR TO TV

- a— Connect both the RF cable and the AV cables to the TV as explained in step of "Basic Connection" (☐ pg. 7).
- b— Connect the S-Video cable between the S VIDEO OUT terminal on the rear of the VCR and the S-VIDEO input connector on the TV.

#### **Component Video Connection**

#### CONNECT VCR TO TV

- a— Connect both the RF cable and the AV cables to the TV as explained in step of "Basic Connection" (☐ pg. 7).
- b— Connect the component video cable between the Component video output terminals on the rear of the VCR and the component video input terminals on the TV.



#### **NOTES:**

- To make the most of the Super VHS picture performance we recommend that you use the supplied S-VIDEO cable to connect your VCR to a TV with an S-VIDEO input connector.
- To operate the VCR with your TV using the S-VIDEO connection, set your TV to the AV mode using the TV's Remote.
  - You can also use the TV/VCR button on the VCR's Remote to set your TV to the AV mode ( pg. 68).
- If you cannot see the pictures on the TV screen when you play back a tape, set "TV OUTPUT 1" to the appropriate mode ( pg. 56).

#### **NOTES:**

- To change the settings or set the timer program on the menu screen, switch the TV's input mode for the connection with Audio cable.
- To view the picture of 480i image format on the TV, or to select and view TV broadcast, connect the component video cable to the TV's Y/CB/CR connectors. If your TV has only the Y/PB/PR connectors, connect also the S-VIDEO or VIDEO connectors between the VCR and TV.

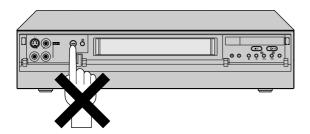




### **Auto Clock Set/Auto Tuner Set**

#### **ATTENTION**

- If you use a cable box, Plug & Play will not function; set the clock and tuner channels separately. (☞ pg.10 – 14)
- It takes several minutes for the VCR to complete the Plug & Play setting.
- Do not press any buttons on the front panel or on the Remote while Plug & Play is in progress.



This VCR 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.



#### Perform Plug & Play setup

Connect the antenna cable to the VCR (Fig. 7). Then connect the AC power cord to an AC outlet. Do not turn on the VCR.

The clock and tuner channels will be set automatically.

#### **NOTES:**

- When the AC power cord is connected to an AC outlet, "LOAD" appears on the front display panel. It takes some time until VCR completes its set up.
- 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 VCR. 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 the clock ( pg. 10) and tuner ( pg. 13) settings. If, however, you want to add or delete channels, refer to Manual Channel Set on page 14.



During Initial Auto Clock Set "Auto" blinks.



**During Auto Channel Set** 

The channel numbers are displayed as they are scanned and set.





**Plug & Play Completed** 

The current time is displayed. ("PM" lights up during the afternoon.)

\* If an incorrect clock time or "- -:- -" appears on the display panel, see "What to do if Plug & Play setting failed" below.

#### **INFORMATION**

- If "AUTO CLOCK" is set to "ON" on the Clock Set screen on page 11, 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 VCR 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".
- If the memory backup fails, because a power outage occurs or because the AC power cord is unplugged, Auto Clock Set will be performed when power is restored to the VCR.
- Poor antenna or cable signal may prevent the VCR from receiving the Auto clock setting data from a 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 ( pg. 12).

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

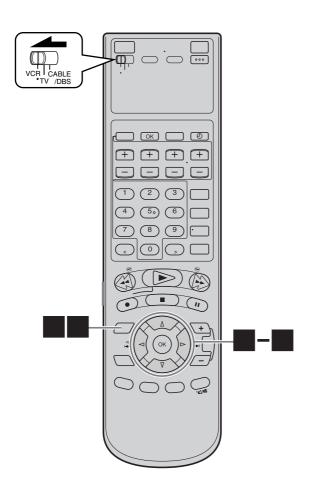
- If an incorrect time is displayed on the front display panel, you may be receiving the clock setting data of a PBS channel from an adjacent time zone, or an incorrect PBS channel from a cable TV system. In this case, perform the Semiauto ( pg. 11) or Manual Clock Set ( pg. 12) procedure.
- If "— -:— —" appears on the front display panel, your antenna cable may not be connected to the VCR 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 VCR; 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 (\$\mathbb{C}\$ pg. 12) and Auto Channel Set or Manual Channel Set (\$\mathbb{C}\$ pg. 13 or 14).



1/22/3. 4:35 PM

# **Clock Setting**

- Turn on the VCR and the TV, and select the AV mode on the TV.
- Set the VCR/TV/CABLE/DBS selector on the Remote to "VCR".



Perform clock setting only if the clock has not been set correctly by the Plug & Play setting or if you use a cable

Access the Clock Set screen to perform the Semiauto or Manual Clock Set. Each procedure starts from step after preparation steps below are finished.

If you use a cable box, set the clock manually. (12) pg. 12)

### **Preparations**



#### **Access Main Menu screen**

Press **MENU**.



#### **Access Clock Set screen**

 $\sqcap$  Press  $\triangleleft \triangleright$  to move the arrow to "INITIAL SET UP", then press ∇ or OK.



2 Press  $\triangleleft \triangleright$  to move the arrow to "CLOCK SET",

then press  $\nabla$  or **OK**.

• If "CABLE BOX USERS SET CLOCK MANUALLY" appears on the screen, press OK to access the Clock Set screen. (Even if you do not press **OK**, the Clock Set screen disappears after 5 seconds, then the Clock Set screen appears automatically).





### **Setting clock semiautomatically**

#### - Semiauto Clock Set

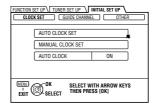
You can change the host channel/D.S.T. /time zone setting manually.

First follow steps ■ to ■ on page 10, then go to the following steps.



#### **Access Auto Clock Set screen**

Press  $\Delta \nabla$  to move the arrow to "AUTO CLOCK SET", then press **OK**.



#### Then;

To select the host channel — go to step ■. To select the D.S.T. mode — go to step ■. To select the time zone — go to step ■.

#### NOTE:

The time set previously will be erased when "AUTO CLOCK SET" is selected.



#### Select host channel

You can either select "AUTO" or enter a PBS channel number. Press  $\Delta \nabla$  to move the arrow to "HOST CH", then press  $\triangleleft \triangleright$  until "AUTO" or the desired PBS channel number is selected.

UNCTION SET UP \ TUNER SET UP \ INITIAL SET UP					
AUTO CLOCK SET TIME:	AM DATE 1/1 (WED) 2003				
HOST CH [TV]	△ AUTO ▷				
D.S.T	AUTO				
TIME ZONE	AUT0				
RETURN					
OK SELECT WITH ARROW KEYS THEN PRESS [OK]					

#### NOTE:

Some PBS channels do not transmit clock setting data.

#### \* Auto Daylight Saving Time

This function enables automatic adjustment of the VCR'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.

### Select D.S.T. mode

You have three choices:

AUTO- Select if you want to adjust your VCR's clock automatically by the incoming signal from the host channel. (Auto Daylight Saving Time\*)

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

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

Press  $\triangle \nabla$  to move the arrow to "D.S.T.", then press  $\triangleleft \triangleright$  repeatedly until the desired setting is selected.

#### Select time zone

You can select the time zone automatically or manually.

Press  $\triangle \nabla$  to move the arrow to "TIME ZONE", press  $\triangleleft \triangleright$  repeatedly until "AUTO" or the desired time zone is selected.

Each time you press the button, the time zone changes as follows:

□ AUTO □ ATLANTIC □ EASTERN

☐ CENTRAL ☐ MOUNTAIN ☐ PACIFIC

∠ ALASKA ∠ HAWAII ∠ (back to the beginning)

#### NOTE:

If an incorrect clock time is displayed by the Plug & Play setting, 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, be sure to select the correct time zone manually.

# Ī

#### Return to normal screen

Press **MENU**.

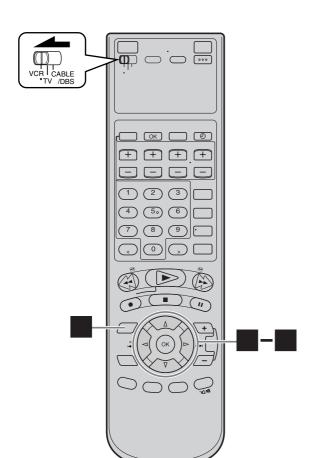
#### **IMPORTANT**

Turn off the VCR after performing Semiauto Clock Set. "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.









### **Setting clock manually**

#### - Manual Clock Set

First follow steps **to on** page 10, then go to the following steps.



#### **Access Manual Clock Set screen**

Press  $\triangle \nabla$  to move the arrow to "MANUAL CLOCK SET", then press **OK**.



#### Set time

Press  $\triangleleft \triangleright$  until the desired time appears, then press  $\triangleright$ .

 Holding <> changes the time in 30-minute intervals.





#### Set date

Press  $\triangleleft \triangleright$  until the desired date appears, then press  $\nabla$ .

 Holding <> changes the date in 15-day intervals.



#### Set year

Press  $\triangleleft \triangleright$  until the desired year appears.



#### Select D.S.T. mode

Press  $\triangle \nabla$  to move the highlight bar to "D.S.T.", then press  $\lhd \triangleright$  to select "ON" or "OFF".

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

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



#### Start clock

Press  $\ensuremath{\mathsf{MENU}}$  and normal screen appears.

#### To make corrections any time during the process

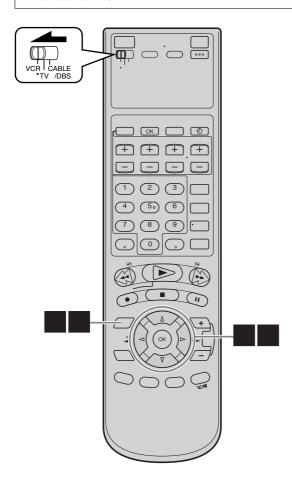
Press  $\triangle \nabla$  to select the item you want to change, then press  $\triangleleft \triangleright$ .





# **Tuner Setting**

- Turn on the VCR and the TV, and select the AV mode on the TV.
- Set the VCR/TV/CABLE/DBS selector on the Remote to "VCR".



### Setting channels automatically

#### - Auto Channel Set

Use Auto Channel Set only if channels have not been set correctly by the Plug & Play setting. If you want to add or delete channels, use Manual Channel Set (F pg. 14).

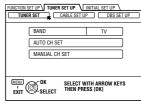
#### Access Main Menu screen

Press **MENU**.



#### **Access Tuner Set Up screen**

- the arrow to "TUNER SET UP", then press ∇ or OK.
- 2 Press <> to move the arrow to "TUNER SET", then press  $\nabla$  or **OK**.

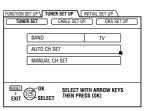




#### **Perform Auto Channel Set**

You can automatically set the receivable channels in your area in the order of their frequencies.

Press  $\triangle \nabla$  to move the arrow to "AUTO CH SET", then press OK.



#### **NOTES:**

- When Auto Channel Set is complete, "SCAN COMPLETED" appears on screen.
- If the scan was unsuccessful, "SCAN

COMPLETED - NO SIGNAL FOUND -" appears on screen. Check the connections, then select "RETRY" to start again, or select "EXIT".





#### Return to normal screen

Press MENU.

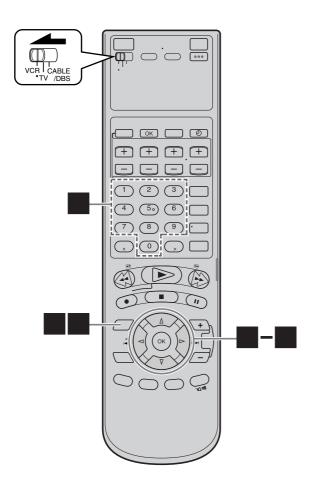
#### **INFORMATION**

The VCR 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 Up screen.

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## **Setting channels manually**

#### - Manual Channel Set

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



#### Access Main Menu screen

Press MENU.



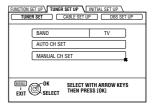
#### Access Tuner Set Up screen

- Press 
   Pr UP", then press  $\nabla$  or **OK**.
- 2 Press <> b to move the arrow to "TUNER SET", then press  $\nabla$  or **OK**.



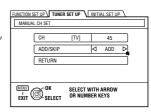
#### **Access Manual Channel Set screen**

Press  $\triangle \nabla$  to move the arrow to "MANUAL CH SET", then press **OK**.





**1** Press  $\triangle \nabla$  to move the arrow to "CH", then press the Number keys to input a channel number you want to add.



- **2** Press  $\triangle \nabla$  to move the arrow to "ADD/SKIP", then press  $\triangleleft \triangleright$  to set to "ADD".
- **3** Repeat **1** and **2** to add other channels.

#### To skip channels

**1** Press  $\triangle \nabla$  to move the arrow to "CH", then press the Number keys or  $\triangleleft \triangleright$  to input a channel number you want to skip.



- 2 Press △▽ to move the arrow to "ADD/SKIP", then press  $\triangleleft \triangleright$  to set to "SKIP".
- 3 Repeat 1 and 2 to skip other channels.



#### Return to normal screen

Press MENU.



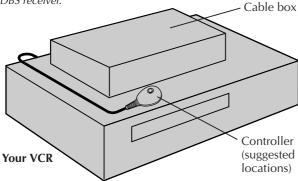


#### **Suggested location**

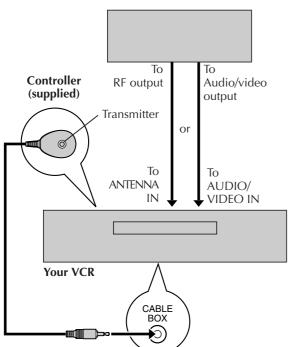
Place the cable box on top of the VCR. Attach the VCR's Controller to the top of the VCR with the Controller's transmitter pointed towards the cable box's remote sensor.

#### **ATTENTION:**

The Controller can also control a DBS receiver. If both a cable box and a DBS receiver are used, position the Controller so its signal reaches the remote sensors on both the cable box and DBS receiver.



#### Cable box



The following procedure is required if you receive your TV channels through a cable box (descrambler). The Controller allows the VCR to automatically switch the cable box channel during timer recording. The Controller is effective for recording broadcasts that have been programed using VCR Plus+ (\$\mathbb{L} \mathbb{P} \text{ pg. 34}\$) or Express timer programing (\$\mathbb{L} \mathbb{P} \text{ pg. 38}\$).

### **Installing Controller**

#### **Situate Controller**

Place the Controller so that its transmitter is facing the cable box's remote sensor.

• Make sure the path between the Controller and the cable box's remote sensor is not blocked.



#### **Attach Controller**

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



#### Connect cable box to VCR

 If your cable box does not have audio/video output connectors

Connect the RF output terminal on the cable box to the ANTENNA IN terminal on the rear of your VCR.

If your cable box has audio/video output connectors

Connect an audio/video cable between the AUDIO/VIDEO IN connectors on the rear of the VCR and the audio/video output connectors on the cable box.

#### NOTE:

When connecting your cable box, refer to its instruction manual.



#### **Connect Controller to VCR**

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

#### How to control the cable box

This VCR has two separate methods to control your cable box.

- The VCR's wireless Remote can control your cable box. This eliminates the need for a separate cable box's
- The VCR's Controller can also control your cable box.
   This allows the VCR to change your cable box's channel number during timer recording.

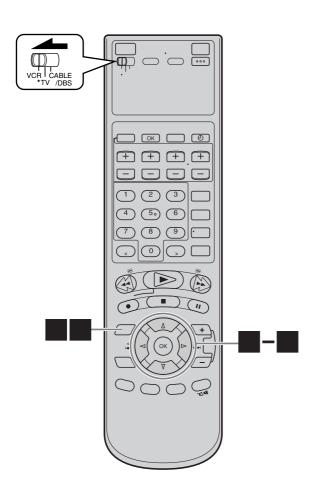
Each method must be set up separately. To set up the VCR's Remote, refer to page 69. To set up the Controller, go to page 16.

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- Turn on the VCR and the TV, and select the AV mode on the TV.
- Set the **VCR/TV/CABLE/DBS** selector on the Remote to "VCR".



# Setting cable box input channel & brand

After installation, set the cable box input channel and its brand correctly; otherwise, the Controller cannot work correctly.



#### Turn on cable box

Select a channel other than channel 9 on your cable box.



#### **Access Main Menu screen on VCR**

Press **MENU**.



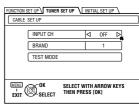
- 1 Press ⊲ ▷ to move the arrow to "TUNER SET UP", then press ▽ or OK.
- Press <> to move the arrow to "CABLE SET UP", then press ∨ or **OK**.





Press  $\triangle \nabla$  to move the arrow to "INPUT CH".

Your selection depends on how your cable box is connected to your VCR.



 If your cable box is connected to your VCR's ANTENNA IN terminal on the rear panel Press <>> until the channel number

representing the cable box's output (ON CH2 – ON CH9) appears on the screen.

- If your cable box is connected to your VCR's AUDIO/VIDEO IN connectors on the front panel Press <> until "ON F-1" appears on the screen.
- If your cable box is connected to your VCR's AUDIO/VIDEO IN (L-1) or AUDIO/VIDEO IN (L-2) connectors on the rear panel Press < > until "ON L-1" or "ON L-2" appears on the screen.
- If you do not use a cable box
   Press < > until "OFF" appears on the screen.





#### Enter cable box brand

Press △∇ to move the arrow to "BRAND".

Press  $\triangleleft \triangleright$  to enter the brand code from the list shown to the right.

FUNCTION SET UP \ INITIAL SET UP \				
CABLE SET UP				
INPUT CH		OFF		
BRAND		<b>d</b> 1	D	
TEST MOI	DE		~~	
OK SELECT WITH ARROW KEYS THEN PRESS [OK]				

#### **Engage test mode**

Press  $\triangle \nabla$  to move the arrow to "TEST MODE", then press **OK**.

#### NOTE:

If you do not engage the test mode in step , "INPUT CH" and "BRAND" are not set.

• If the cable box's channel changes to 9, setting is complete

Press <> b to move the arrow to "YES", then press



**OK** and "CABLE

BOX CONTROL IS ON" appears on the screen for about 5 seconds.

- If the cable box's channel does not change to 9
- 1) Press  $\triangleleft \triangleright$  to move the arrow to "NO".
- 2 Press OK.
- Repeat step 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.



#### Return to normal screen

Press MENU.

#### If the VCR's clock has not been set (with AUTO **CLOCK set to ON)**

"CABLE BOX USERS SET CLOCK MANUALLY" appears for about 5 seconds when you press **OK** in step **II**, then the Clock Set screen appears.

Perform Manual Clock Set on page 12. If you press MENU after the clock has been set, the Cable Box Input Channel screen in step appears.

#### **CABLE BOX BRAND LIST**

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
SL MARX	5, 16, 17, 24, 25
SPRUCER	13, 14
STARGATE	5, 15, 16, 17, 21, 24, 25
TELEVIEW	5, 16, 24
TOCOM	1, 4, 16
UNIKA	1, 17
UNIVERSAL VIDEOWAY	16, 17, 25
ZENITH	3, 9, 22
ZEINITH	3, 9, 22

#### NOTES:

- The Controller may not work with all types of cable box.
- If your cable box does not respond to any code, 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

Contact your cable company about the possibility of exchanging your current cable box with the one compatible with your VCR.

- The VCR can only change the cable box channel through the Controller during timer recording.
- If your cable box cannot be operated with a Remote (because it has no remote sensor), you cannot use the Controller to change its channels. Make sure to leave the cable box turned on and tuned to the proper channel before the scheduled start time of timer recording.
- If the VCR's memory backup expires because of a power failure, set the cable box input channel and brand again.
- For customers in U.S.A.: If you are unable to set the Controller, contact JVC toll free at 1-800-252-5722.





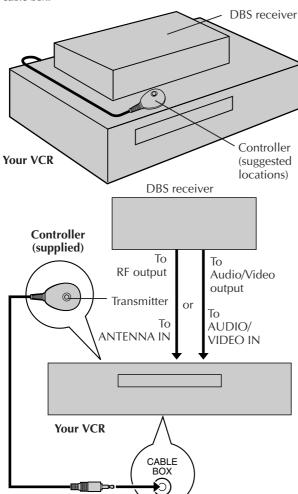
# **DBS Receiver Control Setting**

#### **Suggested location**

Place the DBS (Direct Broadcast Satellite) receiver on top of the VCR. Attach the VCR's Controller to the top of the VCR with the Controller's transmitter pointed towards the DBS receiver's remote sensor.

#### **ATTENTION:**

The Controller can also control a cable box. If both a DBS receiver and a cable box are used, position the Controller so its signal reaches the remote sensors on both the DBS receiver and cable box.



The following procedure is required if you receive satellite channels through a DBS (Direct Broadcast Satellite) receiver. The Controller allows the VCR to automatically switch the DBS receiver's channels during timer recording.

#### **NOTES:**

- The VCR can automatically change the DBS receiver channels using the Controller when the VCR has been programed using Express timer programing ( pg. 38).
   Because satellite programing does not use PlusCode, the Controller cannot change the DBS receiver channels during VCR Plus+ timer recording.
  - (You can also use "Satellite Auto Recording" ( pg. 62) if your DBS receiver is equipped with a timer.)
- If a cable box is also used, it is recommended that you connect the DBS receiver to your VCR's audio/video input connectors and the cable box to your VCR's antenna input terminal.

### **Installing Controller**



#### **Situate Controller**

Place the Controller so that its transmitter is facing the DBS receiver's remote sensor.

 Make sure the path between the Controller and the DBS receiver's remote sensor is not blocked.



#### **Attach Controller**

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



#### **Connect DBS receiver to VCR**

 If your DBS receiver does not have audio/ video output connectors

Connect the RF output terminal on the DBS receiver to the ANTENNA IN terminal on the rear of your VCR.

If your DBS receiver has audio/video output connectors

Connect an audio/video cable between the AUDIO/VIDEO IN connectors on the rear of the VCR and the audio/video output connectors on the DBS receiver.

#### NOTE:

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



#### **Connect Controller to VCR**

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

#### How to control the DBS receiver

This VCR has two separate methods to control your DBS receiver.

- The VCR's wireless Remote can control your DBS receiver. This eliminates the need for a separate DBS receiver's Remote.
- The VCR's Controller can also control your DBS receiver. This allows the VCR to change your DBS receiver's channel number during timer-recording.

Each method must be set up separately. To set up the VCR's Remote, refer to page 70. To set up the Controller, go to page 19.





- <del>-</del>
- Turn on the VCR and the TV, and select the AV mode on the TV.
- Set the **VCR/TV/CABLE/DBS** selector on the Remote to "VCR".



# Setting DBS receiver input channel & brand

After installation, set the DBS receiver's input channel and its brand correctly; otherwise, the Controller cannot work correctly.



#### Turn on DBS receiver

Select a channel other than channel 100 or 205 on your DBS receiver.



#### **Access Main Menu screen on VCR**

Press **MENU**.



#### **Access DBS Receiver Set screen**

- Press ▷ to move the arrow to "TUNER SET UP", then press ♡ or OK.
- 2 Press <> to move the arrow to "DBS SET UP", then press ∇ or **OK**.





#### Select DBS receiver input channel

Press △▽ to move the arrow to "INPUT CH". Your selection depends on how your DBS receiver is connected to your VCR.



 If your DBS receiver is connected to your VCR's ANTENNA IN terminal on the rear panel

Press *⊲* ▷ until the channel number representing the DBS receiver's output (ON CH3 or ON CH4) appears on the screen.

- If your DBS receiver is connected to your VCR's AUDIO/VIDEO IN connectors on the front panel Press <> until "ON F-1" appears on the screen.
- If your DBS receiver is connected to your VCR's AUDIO/VIDEO IN (L-1) or AUDIO/VIDEO IN (L-2) connectors on the rear panel
   Press <> until "ON L-1" or "ON L-2" appears on the screen.
- If you do not use a DBS receiver

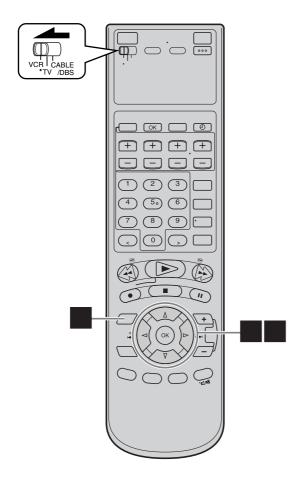
  Press <> □ until "OFF" appears on the screen.

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CONTINUED ON NEXT PAGE →







#### **NOTES:**

- The Controller may not work with all types of DBS receiver.
- 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. In addition, if your DBS receiver is equipped with a timer, you can also use "Satellite Auto Recording" (\$\sup\$ pg. 62).
- The VCR can only change the satellite channel through the Controller during timer recording.
- If your DBS receiver cannot be operated with a Remote (because it has no remote sensor), you cannot use the Controller to change its channels. Make sure to leave the DBS receiver turned on and tuned to the proper channel before the scheduled start time of timer recording.
- For customers in U.S.A.: If you are unable to set the Controller, contact JVC toll free at 1-800-252-5722.



#### **Enter DBS Receiver's brand**

Press  $\triangle \nabla$  to move the arrow to "BRAND".

Press  $\triangleleft \triangleright$  to enter the brand code from the following list.

FUNCTION SET UP \ INITIAL SET UP \						
DBS SET	TUP		_			
	INPUT CH			OFF	$\equiv$	
	BRAND		⊲	40	₽	
1	TEST MODE				$\Box$	
OK SELECT WITH ARROW KEYS THEN PRESS [OK]						

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



#### **Engage test mode**

Press  $\triangle \nabla$  to move the arrow to "TEST MODE", then press **OK**.

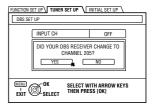
The program currently received through the DBS receiver appears for about 10 seconds.

#### NOTE:

If you do not engage the test mode in step , "INPUT CH" and "BRAND" are not set.

 If the DBS receiver's channel changes to 205, setting is complete

Press < > to move the arrow to "YES", then press **OK** and "DBS RECEIVER CONTROL IS ON" appears on the screen for about 5 seconds.



- If the DBS receiver's channel does not change as shown above
  - ① Press  $\triangleleft \triangleright$  to move the arrow to "NO".
  - ② Press **OK**.
  - 3 Re-enter the correct code.

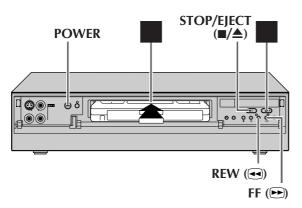
#### Return to normal screen

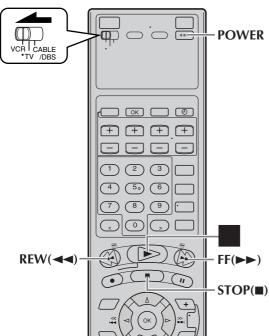
Press **MENU**.

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# Basic Playback

- Turn on the VCR and the TV, and select the AV mode on the TV.
- Set the VCR/TV/CABLE/DBS selector on the Remote to "VCR".





#### **NOTES:**

- When you use the Video Navigation function, operate the VCR only after the tape number is detected; otherwise, you cannot use the Video Navigation function.
- It takes a moment until the image appears on the TV screen when you play back a program recorded in LS5 mode. The picture may pause or the block noise may appear.
- It will take a moment until the image appears when you play back cut segments (segments for which recording was continued after stopping or pausing) or segments for which recording was switched from VHS mode (SP or EP) to D-VHS mode.

This VCR can check the tape condition during playback (and recording), and realizes the best possible pictures.

- This VCR can play back tapes that have been recorded in D-VHS (MTP), S-VHS, S-VHS ET and VHS formats.
- When playing back a tape, this VCR automatically identifies the recording format (D-VHS, S-VHS, S-VHS ET or VHS).
- When you play back a tape recorded on this VCR, you can use the Video Navigation function (F pg. 42).

#### Load a cassette

Make sure the window side is up, the rear label side is facing you and the arrow on the front of the cassette is pointing towards the VCR. Do not apply too much pressure when inserting.

- The VCR turns on automatically.
- The tape will run for a few seconds while the VCR searches for the tape number. If the tape number is found, it will be shown on the TV screen if "SUPERIMPOSE" is set to "ON" (© pg. 57).
- The counter is reset automatically, however, it is not completely reset to "0:00:00".
- If the cassette's record safety tab has been removed, playback begins automatically.



#### Start playback

Press **PLAY** (►).

- Recording speed is automatically detected.
- If "V. CALIBRATION" is set to "ON" (default setting) and "PICTURE CONTROL" is set to "AUTO": (☞ pg. 54), "VIDEO CALIBRATION" appears on the screen, and this VCR checks the tape condition during automatic tracking (only cassettes recorded in the S-VHS, S-VHS ET or VHS mode).

#### To stop playback

Press **STOP** ( $\blacksquare$ ) on the Remote or **STOP/EJECT** ( $\blacksquare/\triangle$ ) on the front panel.

To rewind the tape (when it is not running)

Press **REW** ( ◀◀ ).

To fast-forward (when it is not running)

Press **FF** ( ▶▶ ).

#### To eject the tape

Press **STOP/EJECT** ( $\blacksquare/\triangle$ ) on the front panel when the tape is not running.

• You can also eject the cassette when the VCR is turned off.

#### To turn off the VCR

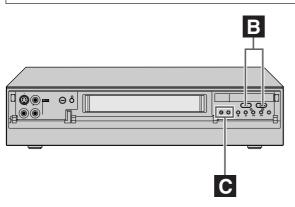
Press **POWER**.

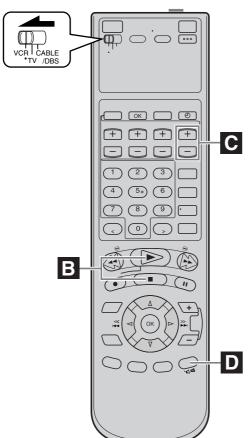




# Basic Playback Features

- Turn on the VCR and the TV, and select the AV mode on the TV.
- Set the VCR/TV/CABLE/DBS selector on the Remote to "VCR".

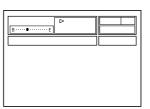




# A Checking tape position

The tape position indicator appears on the screen in the following cases:

- When you change the VCR operation mode from the stop mode to fast forward or rewind mode.
- When you perform an Index Search (☐ pg. 24).



The position of "■" in relation to "B" (Beginning) or "E" (End) shows you where you are on the tape.

#### **NOTES:**

- "SUPERIMPOSE" must be set to "ON", or the indicator will not appear (\$\sup\$ pg. 57).
- It may take a few seconds for the tape position indicator to be displayed.

**To reset the time counter,** press **C. RESET** on the Remote. The counter reading becomes "0:00:00". It is also reset when a tape is inserted.

# Playing back tape repeatedly

- Repeat Playback

You can play back a tape repeatedly (50 times).

While playing back a tape, press and hold PLAY (►) for more than 5 seconds.

The play indicator ( ▷ ) on the front display panel starts flashing slowly, and a tape will be played back 50 times. **To stop playback,** press **STOP** ( ■ ) on the Remote or **STOP/EJECT** ( ■/♠ ) on the front panel.

#### NOTE:

For a cassette recorded in D-VHS mode, Repeat Playback is not possible if the cassette was recorded in LS3 or LS5 mode.







### Adjusting tracking condition

#### - Tracking Adjustments

#### **Automatic tracking adjustment**

This VCR automatically adjusts the tracking condition. Whenever you insert a tape and start playback, automatic tracking starts working and continuously analyzes the signal to enable optimum picture quality during playback.

#### Manual tracking adjustment

If automatic tracking cannot eliminate noises well during playback, use the manual tracking following the procedures below.

• You can also use the manual tracking during slow motion playback (F pg. 33). During slow motion playback, simply press CHANNEL + or - on the VCR (or TV/VCR CH + or - on the Remote) to adjust tracking.

### **Activate manual tracking**

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Press CHANNEL + and – on the front panel at the same time during playback.

#### Eliminate the noises on the TV screen Press CHANNEL + or -.

- Press it briefly for a fine adjustment, or press and hold for a coarse adjustment. Watch the screen and continue adjustment until optimum picture and sound quality are achieved.
- To reactivate automatic tracking, press CHANNEL + and - on the front panel at the same time. The automatic tracking becomes active again.

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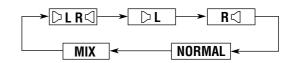
### **Selecting monitor sound**

#### - Audio Monitor

You can select the desired monitor sound.

While playing back a tape on which stereo sound or SAP sound is recorded, press A. MONITOR on the Remote. Each time you press the button, sound changes as follows:

#### S-VHS/VHS



 $\triangleright$ LR $\triangleleft$ : Normally select this.

Hi-Fi sound is played back.

Sound on the left Hi-Fi channel is played □ L:

back.

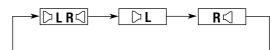
R < :: Sound on the right Hi-Fi channel is played

back.

NORMAL: Sound on the normal track is played back.

MIX: Both sounds on the Hi-Fi track and normal track are mixed and played back.

#### D-VHS



 $\triangleright$  L R  $\triangleleft$ : Normally select this.

D L: Sound on the left channel is played back. R <<: Sound on the right channel is played back.

#### NOTES:

- The above indication appears when "SUPERIMPOSE" is set to "ON" ( pg. 57), though the monitor sound changes in
- If the tape being played back has no Hi-Fi sound track, the normal sound track will be heard regardless of this setting.





# Automatic operations after rewinding — Next Function Memory

The Next Function Memory "tells" the VCR what to do after rewinding is complete.

- Ensure that the VCR is in stop mode.
- **a– For Automatic Playback Start**Press **REW** ( ◀◀ ), then press **PLAY** ( ▶ ) within 2 seconds.
- **b– For Automatic Power Off**Press **REW** ( ◀◀ ), then press **POWER** within 2 seconds.
- c- For Automatic Timer Standby Press REW ( ◄◄ ), then press TIMER (②) within 2 seconds.

#### NOTE:

It is not possible to select the Automatic Timer Standby function if the cassette's record safety tab is removed.

# Locating beginning of recordings — Index Search

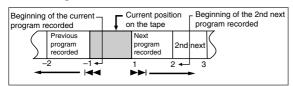
When recording on this VCR, index codes are placed on the tape at the beginning of each recording. You can find and automatically play back from the beginning of any recording using the Index Search function.

### 1 Start search

While the tape is not running, press I◀◀ or ▶►I on the Remote.

### 2 Access distant code

To access a recording of 2 to 9 index codes away, press I◄◀ or ▶►I repeatedly until the correct number is displayed on the screen (only if "SUPERIMPOSE" is set to "ON" (፲፰ pg. 57)). Playback begins automatically when the desired recording is located.



• If you want to find the very beginning of the desired program, press **REW** ( ) or **FF** ( ) after playback starts.

#### NOTE:

An index code is not placed on the tape when recording is resumed from recording pause.

# **G** Skipping unwanted portions

#### — Skip Search

You can skip over (view at high speed) unwanted portions of the tape.

# Press SKIP SEARCH on the Remote once to 4 times during playback.

Each press initiates a 30-second period of high speed playback (up to 2 minutes). When the specified portion of the tape is skipped, normal playback resumes automatically.

To return to normal playback during Skip Search, press PLAY (►).

#### NOTE:

It is not possible to perform the Skip Search when you play back a D-VHS tape recorded in LS5 mode.

# Other Useful functions for playback (S-VHS/VHS only)

You can also use the following functions for playback.

#### ● Video Calibration (□ pg. 54)

When this function is set to "ON", this VCR checks the condition of the tape in use during playback and recording, and compensates to provide the highest-possible pictures.

#### • Picture Control (127 pg. 54)

This function helps you to adjust the playback picture quality according to your preference.

#### • Digital R3 (127 pg. 54)

This function applies edge correction to the luminance signal to enhance details and provides clear pictures.

#### • Video Stabilizer ( pg. 54)

You can automatically correct vertical vibrations in the picture when playing back unstable recordings made on another VCR.







### How to read the Video Navigation screen for D-Theater tape\*

If you insert a D-Theater tape and then press **NAVI**, the following screen appears. Press  $\triangle \nabla$  to move the arrow to the item that you want to watch, then press **OK**. Playback starts automatically after the selected item is located. The D-Theater indicator lights up when playing back a D-Theater tape.

\* D-Theater is a technical specification based on D-VHS standards that was developed for HD content. Commercial D-Theater titles can only be played back on D-VHS digital recorders bearing the D-Theater logo.



Some D-Theater tapes or D-VHS tapes may contain the multiple programs, angles, sounds or subtitles. If a tape contains them, the icons appear on the top right corner of the TV screen when you press **OSD**.

#### **Program Selection**



During normal playback, press **TV/VCR CH +/–** on the Remote to select the desired program.

• It is impossible to select the program if the tape does not contain the multiple programs.

#### **Angle Selection**



During normal playback, press the **number key "4"** on the Remote to select the desired angle.

• It is impossible to select the angle if the tape does not contain the multiple angles.

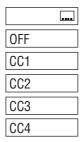
#### **Sound Selection**



During normal playback, press **A. MONITOR** on the Remote to select the desired sound.

• It is impossible to select the sound if the tape does not contain the multiple sounds.

#### **Subtitle Selection**



During normal playback, press **SUBTITLE** (number **key** "6") on the Remote to select the desired subtitle.

• It is impossible to select the subtitle if the tape does not contain the multiple subtitles.

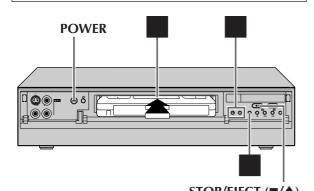


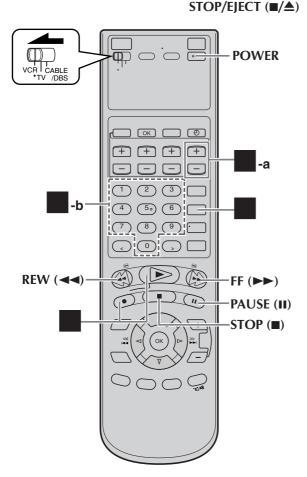


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# Basic Recording

- Turn on the VCR and the TV, and select the AV mode on the TV.
- Set the VCR/TV/CABLE/DBS selector on the Remote to "VCR".





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This VCR can check the tape condition during recording (and playback), and realizes the best possible pictures.

In addition, this VCR is equipped with the Video Navigation function, which allows you to quickly locate the programs you have recorded on a tape. When recording on this VCR, the tapes are automatically numbered so that every tape recorded on this VCR has a different tape number. With this function, the program information such as recording date, start time, channel number, and recording speed are also automatically stored in the VCR's memory.

 For the Video Navigation function, see page 42.
 To memorize the recording date and start time for the Video Navigation function, the date and clock must be set correctly.

### **D-VHS** Recording

#### Load a D-VHS cassette

Make sure the record safety tab is intact. If not, cover the hole with adhesive tape before inserting the cassette.

• The D-VHS indicator lights on the front display panel and the D-VHS recording mode is selected automatically.



#### Select recording channel

On the front panel:

Press **CHANNEL** + or –.

On the Remote:

a- Press TV/VCR CH + or -.

or

**b**– Press the **Number** keys.



#### Set recording speed

Press **REC SPEED** to set the recording speed.

- The recording speed changes each time REC SPEED is pressed.
  - HS: When picture quality and sound quality is important.
  - STD: When picture quality and recording time are important.
  - LS3: To record for three times longer than in STD mode, with picture quality that is equal to or better than S-VHS.
  - LS5: When recording time is important. To record for five times longer than in STD mode.



#### Start recording

On the front panel:

Press **REC** ( ● ).

On the Remote:

While holding **REC** ( $\bullet$ ), press **PLAY** ( $\triangleright$ ).







### S-VHS/VHS Recording



#### Load a cassette

Make sure the record safety tab is intact. If not, cover the hole with adhesive tape before inserting the cassette.



#### Select recording channel

On the front panel:

Press CHANNEL + or -.

On the Remote:

a- Press TV/VCR CH + or -.

or

**b**– Press the **Number** keys.



#### Set recording speed

Press **REC SPEED** to set the recording speed.



#### Start recording

On the front panel:

Press **REC** ( ● ).

On the Remote:

While holding **REC** ( $\bullet$ ), press **PLAY** ( $\triangleright$ ).

- If "V. CALIBRATION" is set to "ON" (default setting: pg. 54), this VCR checks the tape condition for about seven seconds, then starts recording. This means that the first seven seconds of the program will not be recorded. If this is inconvenient for you, follow the steps below:
  - Press REC ( ) and PAUSE ( II ) to start Video Calibration.
  - **②** Then press **PLAY** ( ► ) to start recording after Video Calibration is complete.

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

#### To pause recording

Press **PAUSE** ( **II** ). To resume recording, press **PLAY** ( ▶ ).

#### To stop recording

Press **STOP** (  $\blacksquare$  ) on the Remote or **STOP/EJECT** (  $\blacksquare/\triangle$  ) on the front panel.

#### To rewind the tape (when it is not running)

Press **REW** ( ◀◀ ).

#### To fast-forward the tape (when it is not running)

Press **FF** ( ▶▶ ).

#### To eject the tape

Press **STOP/EJECT** (  $\blacksquare/\triangle$  ) on the front panel when the tape is not running.

 You can also eject the cassette when the VCR is turned off.

#### To turn off the VCR

Press **POWER**.

#### **Compatibility Of Cassettes And Recording Mode**

C	Recording Mode			
Cassette	D-VHS	S-VHS	VHS	
D-VHS	Yes	Yes	Yes	
S-VHS	No	Yes	Yes	
VHS	No	Yes*	Yes	

<sup>\*</sup> To record on the VHS cassette with S-VHS quality, use the S-VHS ET function ( pg. 59).

#### **NOTES:**

- The D-VHS (MTP), S-VHS, S-VHS ET and VHS mode recordings are possible with this VCR.
- To record in the D-VHS mode, use a D-VHS cassette.
- To record in the S-VHS/VHS mode, you can use a D-VHS, S-VHS or VHS cassette.

#### To record in S-VHS mode on D-VHS tapes:

Press **D-VHS** to turn off the D-VHS indicator. Then, set "S-VHS MODE" to "ON" (**Fig. 58**).

#### To record in VHS mode on D-VHS tapes:

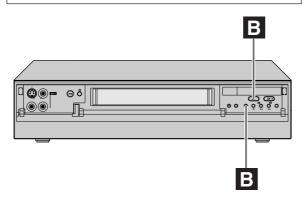
Press **D-VHS** to turn off the D-VHS indicator. Then, set "S-VHS MODE" to "OFF" ( pg. 58).

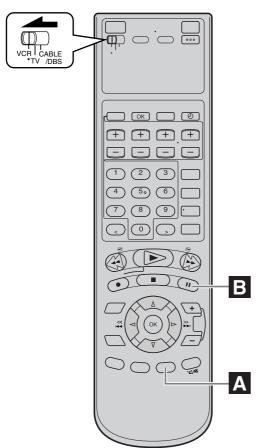




# Recording **Features**

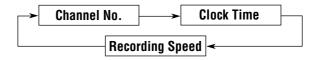
- Turn on the VCR and the TV, and select the AV mode on the TV.
- Set the VCR/TV/CABLE/DBS selector on the Remote to "VCR".





# **Changing display information**

Press DISPLAY during recording or recording pause. Each time you press the button, the front display panel shows the channel number, clock time, and the recording speed in sequence.



• To display the VCR status including the time counter, the channel number and the clock time on the TV screen, see "Showing on-screen display" ( pg. 29).

# **Specifying recording length**

- Instant Timer Recording (ITR)

You can easily specify the recording length from 30 minutes to 8 hours and the VCR shuts off after recording is finished.

**During recording, press REC (●) on the front panel** repeatedly until the recording length you want appears on the front display panel.

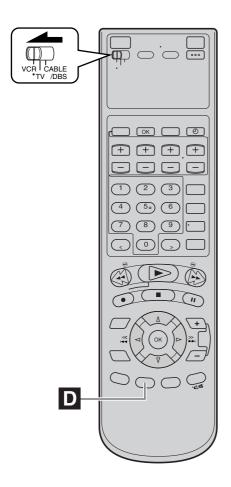
The record (()) indicator starts flashing. Each time you press the button, recording length increases in 30-minute intervals (up to 8 hours).

To cancel an ITR, press STOP (■) on the Remote or **STOP/EJECT** ( $\blacksquare$ / $\triangleq$ ) on the front panel.









# Watching one program while recording another

#### 1 Engage TV mode

During recording...

• Change the TV's input mode from AV to TV.

#### 2 Select channel for viewing

Select the channel you want to watch, on the TV.

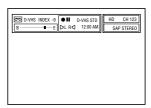
# Showing on-screen display

When "SUPERIMPOSE" is set to "ON" (F) pg. 57), you can see the current VCR status on the TV screen.

• For more detailed information about the on-screen display, see page 85.

### 1 Display VCR status on TV screen

During recording or recording pause, press **OSD** on the Remote. All indications corresponding to the current VCR status are displayed for 5 seconds.



The time counter remains on the screen indicating the elapsed time.

• The indications are not recorded.

### 2 Exit on-screen display

Press **OSD** again.

#### **NOTES:**

- The subtitles does not appear while the on-screen display is displayed.
- If the VCR is in recording pause mode, "•II" is always displayed.
- The VCR status can be also displayed during playback.
- Even if "SUPERIMPOSE" is set to "OFF" ( pg. 57), the onscreen display appears when the VCR plays back the blank portion of a tape and the VCR receives the channel which has no broadcast. However, on-screen display does not appear when the input location is selected and no signal is input.



# **30** EN

#### BASIC PLAYBACK AND RECORDING (cont.)

#### Other useful functions for recording

You can also use the following functions for recording.

# • Video Calibration (S-VHS/VHS only) ( pg. 54) When this function is set to "ON", this VCR checks the condition of the tape in use during playback and recording, and compensates to provide the highest-

#### • Second Audio Recording ( pg. 55)

This VCR's built-in MTS decoder enables reception of Multichannel TV Sound broadcast.

To record a SAP program received, set "2ND AUDIO REC" to "ON" using the menu screen.

#### **NOTES:**

possible pictures.

When the channel is changed on the VCR;

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

#### • S-VHS Recording Mode ( pg. 58)

This VCR allows you to record on a D-VHS and S-VHS tape with VHS picture quality.

#### • S-VHS ET ( pg. 59)

This function allows you to record on VHS tapes with S-VHS picture quality. Tapes recorded using this function can be played back on a VCR equipped with the S-VHS ET function.

#### Accidental erasure prevention

To prevent accidental recording on a recorded cassette, remove its record safety tab.

To record on it later, cover the hole with adhesive tape.



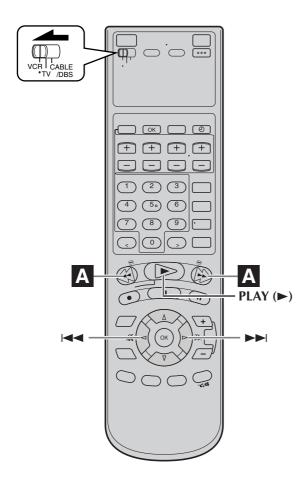






# Special Effect Playback

- Turn on the VCR and the TV, and select the AV mode on the TV.
- Set the VCR/TV/CABLE/DBS selector on the Remote to "VCR".



With this VCR, you can enjoy special effect playback such as high-speed search, variable-speed search, and still playback and so on.

# A Locating particular scene rapidly — Picture Search

#### **■** High-Speed Picture Search:

Possible during normal playback or still picture playback.

You can rapidly locate a particular scene on the tape.

To do forward picture search, press FF (►).

To do reverse picture search, press REW (◄).

• If you press and hold the button for more than 2 seconds, simply releasing it cancels the picture search, and normal playback resumes.

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

#### **NOTES:**

- The high-speed picture search speed of the D-VHS recording is 6 times normal playback speed in HS mode, 12 times in STD mode, 36 times in LS3 mode, 60 times in LS5 mode. The high-speed picture search speed of the S-VHS/VHS recording is 11 times normal playback speed in SP mode, 31 times in EP mode.
- The picture may be distorted at the part where the playback speed is changed.
- The still picture may appear during the high-speed picture search of a tape recorded in D-VHS format on other devices.

#### ■ Variable-Speed Picture Search (S-VHS/VHS only):

You can change the speed of picture search.

#### How to use the buttons on the Remote:

To do forward picture search, press ►►I repeatedly. Each time you press the button, the search speed increases.

 To decrease the speed during forward picture search (toward normal playback, then reverse picture search), press I◄◄ repeatedly.

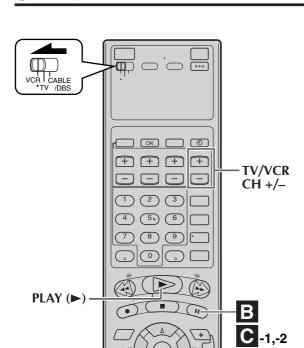
**To do reverse picture search,** press I◀◀ repeatedly. Each time you press the button, the search speed increases during reverse picture search.

 To decrease the speed during reverse picture search (toward normal playback, then forward picture search), press ►►I repeatedly.

To resume normal playback, press PLAY (►).







# **B** Viewing still picture

— Still Picture Playback

**Press PAUSE (II) during normal playback.**Playback is freezed and a still picture appears.

To resume normal playback, press PLAY (►).

#### **NOTES:**

- To obtain a noiseless still picture, it may be necessary to adjust tracking in slow motion playback before starting still picture playback.
- Manual tracking is possible during still picture playback.
   During still picture playback, simply press CHANNEL + or on the VCR (or TV/VCR CH + or on the Remote) to adjust tracking.

# Viewing still picture frame by frame — Frame-by-Frame Playback (S-VHS/VHS only)

- Pause during playback
  Press PAUSE ( II ).
  Playback is freezed and a still picture appears.
- Advance or reverse still picture

  To advance a still picture, press ►►I (or PAUSE
  (II)) repeatedly.

  To reverse a still picture, press I◄◄ repeatedly.

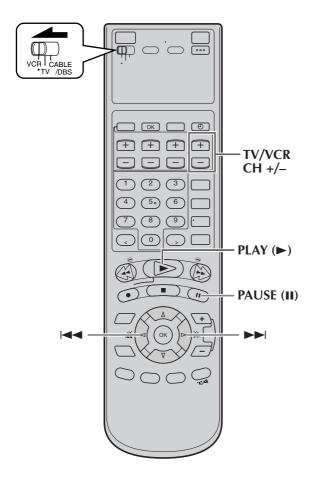
To resume normal playback, press PLAY (►).











# Viewing slow motion picture

— Slow Motion Playback (S-VHS/VHS only)

#### **During normal playback:**

Press ► to decrease the playback speed.

Each time you press the button, the speed decreases (toward reverse slow motion playback, then reverse picture search).

 Holding PAUSE ( II ) for more than 2 seconds also starts forward slow motion playback. If you press PAUSE ( II ) again, still picture resumes.

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

#### **During still picture playback:**

Press and hold ►►I to start forward (or I◄◄ to start reverse) slow motion playback. When you release the button, slow motion playback stops and a still picture appears.

 ◆ Holding PAUSE ( ■ ) for more than 2 seconds also starts forward slow motion playback. If you press PAUSE ( ■ ) again, still picture resumes.

To resume normal playback, press PLAY (►).

#### NOTE:

Manual tracking is possible during slow motion playback. During slow motion playback, simply press **CHANNEL** + or – on the VCR (or **TV/VCR CH** + or – on the Remote) to adjust tracking.



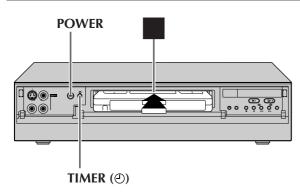


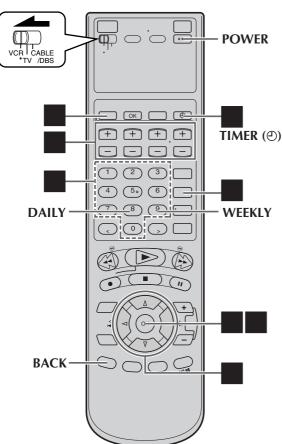


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# VCR Plus+® Timer Programing

- Turn on the VCR and the TV, and select the AV mode on the TV.
- Set the VCR/TV/CABLE/DBS selector on the Remote to "VCR".





Timer recording allows you to program the VCR to automatically record a broadcast at some future time. Up to 24 timer recording programs can be made using VCR Plus+ timer programing or Express timer programing method (F) pg. 38) as far as a year in advance.

The VCR Plus+ timer programing system eliminates the need to input channel, date, start and stop time data when programing timer recording settings. Simply key in the PlusCode number for the TV broadcast you wish to record and the VCR's timer will be automatically programed. (The PlusCode programing numbers are the numbers next to the program in most TV listing.)

#### Load a cassette

Make sure the record safety tab is intact. If not, cover the hole with adhesive tape, then load it into the VCR.

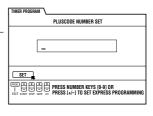
• The VCR turns on, and the counter is reset, automatically.



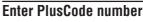
#### Access VCR Plus+ screen

Press **PROGRAM** on the Remote.

• The clock must be set to access the VCR Plus+ screen. If you have not set the clock, the Main Menu screen



appears after an error message is displayed. Refer to page 10 for the clock setting procedure.



Press the appropriate **Number** keys to input the PlusCode number printed in the TV listings for the TV broadcast you wish to record, then press



Then;

OK.

If the Guide Channel Set screen appears

— go to step .

If the VCR Plus+ Program screen appears

— go to step .

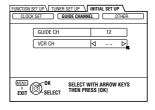
- To make corrections, press **CANCEL** and input the correct PlusCode number.
- If an incorrect PlusCode number or the one for a broadcast already finished has been inputted, "PLUSCODE NO. ERROR CONFIRM PLUSCODE NO. THEN RETRY" is displayed for about 5 seconds, then the VCR Plus+ screen reappears.





#### Input receiving channel number

The guide channel number, which is assigned to the TV or cable station for the PlusCode number that you entered in step , will appear automatically on the



Guide Channel Set Up screen.

Press  $\triangleleft \triangleright$  to input the number of the channel on which the broadcast for the PlusCode number is received on the VCR or cable box, then press **OK**.

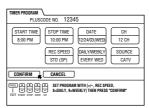
- The Guide Channel Set screen appears only when you input the PlusCode number of a station for which the guide channel number has not been set previously.
- If you receive your channels with a cable box and if you have properly set your Controller, "CABLE CH" appears in place of "VCR CH". If not, refer to pages 15 – 17.

In that case, it is possible to change the channel by 10 channels by pressing and holding  $\triangleleft \triangleright$ .

#### Check program data

The PlusCode number you entered and the corresponding timer recording program is displayed on the Program screen. Check to make sure it

is accurate.



- To change the start/stop time, date or channel setting, press the corresponding buttons to change the settings; START +/-, STOP +/-, DATE +/-, TV/VCR CH +/-.
- To timer-record daily or weekly serials, press
   DAILY (number "8") or WEEKLY (number "9").
   "MON FRI", "MON SAT", "SUN SAT" or "EVERY \_ \_ " appears on the Program screen.
   Pressing the button again makes each corresponding display disappear.
- For the "SOURCE" setting, refer to page 39.
- If you made a mistake, press BACK to access the VCR Plus+ screen again and input the correct PlusCode number.

#### Set recording speed

Press **REC SPEED** to set the recording speed.



#### Return to normal screen

Press  $\triangleleft \triangleright$  to move the arrow to "CONFIRM", then press **OK**.

"PROGRAM COMPLETED PRESS [TIMER] TO ENTER TIMER STANDBY MODE" appears on the screen, then press **OK** to return to normal screen.



### Engage timer recording standby mode

Press **TIMER** (②).

The VCR turns off automatically and " $\bigcirc$ " is displayed on the front display panel.

# To use the VCR while it is in timer recording standby mode

Press **TIMER** (②) to cancel the timer recording standby mode, then press **POWER** to turn on the VCR. DO NOT forget to put the VCR into timer recording standby mode again by pressing **TIMER** (②) after you use the VCR; otherwise, you cannot record the broadcasts you want.

• When "AUTO TIMER" (☐ pg. 57) is set to "ON", the timer recording standby mode is automatically engaged when the VCR is turned off. It is temporarily canceled when the VCR is turned on. You do not have to press TIMER (②) to engage or disengage the timer recording standby mode.

#### **IMPORTANT**

If you have moved to a different area or if a broadcasting station's channel number has been changed, the wrong VCR CH or CABLE CH number will be displayed on the Program screen in step . When this happens, set the correct guide channel number for that station. ( pg. 36, "Changing VCR Plus+ Setting")

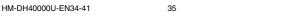
#### **NOTES:**

 Even if a power failure occurs, the VCR keeps your timer programs. However, the clock time is lost if it lasts for more than 10 minutes.

As a result, when the power is supplied again to this VCR after the power failure, the following will take place.

- 1. This VCR starts Auto Clock Set automatically to restore the clock time.
- 2. If the clock time is restored correctly and "AUTO TIMER" is set to "ON", each timer program you have made will start at its start time unless its end time has elapsed.
- If the tape reaches its end during timer recording, "⊕", "○", and "▷" blink.
- To timer-record cable channels received through a cable box, be sure to keep the cable box turned on.

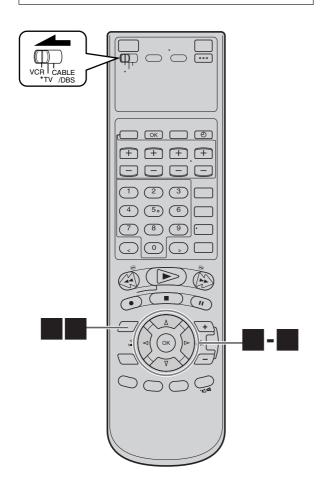






# Changing VCR Plus+Setting

- Turn on the VCR and the TV, and select the AV mode on the TV.
- Set the VCR/TV/CABLE/DBS selector on the Remote to "VCR".



#### **IMPORTANT**

If you have moved to a different area or if a broadcasting station's channel number has been changed, the wrong VCR CH or CABLE CH number will be displayed on the Program screen ( step on page 35). When this happens, perform the following steps to set the correct guide channel number for that station.

To ensure that VCR Plus+ timer recording operates correctly, it is necessary to set the VCR Plus+ "Guide Channel Set" for each station. Read the following information carefully.

#### VCR Plus+ guide channel matching

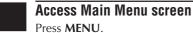
The VCR Plus+ programing system assigns a VCR Plus+ guide channel to the TV channels and the cable channels. These guide channel numbers are also called the VCR Plus+ channel codes. TV listings often have a section in chart form, indicating the guide channel number assigned to each station. For accurate VCR Plus+ programing, the VCR Plus+ guide channel number for each station should match the channel number on which it is received in your area.

#### **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 VCR 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.





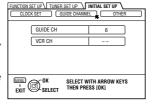


# Access Guide Channel Set screen

Press ▷ move the arrow to "INITIAL SET UP", then press ♡

or **OK**.

2 Press <> to move the arrow to "GUIDE"



CHANNEL", then press  $\nabla$  or **OK**.

#### Input guide channel number

Press < > to input the VCR Plus+ guide channel number as shown in the TV listing.

 If you receive your channels with a cable box and if you have properly set your Controller, (Ex.) When inputting the guide channel number 6 for WNJU(Ind.)



"CABLE CH" appears in place of "VCR CH". If not, refer to pages 15 – 17 and re-perform the procedure.

In that case, it is possible to change the channel by 10 channels by pressing and holding  $\triangleleft \triangleright$  in steps  $\blacksquare$  and  $\blacksquare$ .

#### Input receiving channel number

Press  $\triangle \nabla$  to move the arrow to "VCR CH", then press  $\triangleleft \triangleright$ to input the number of the channel on which the guide channel's broadcasts are received.

• Repeat steps 
and
for each

for each instance.

(Ex.) If WNJU(Ind.) is received on channel 47

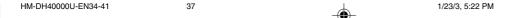


#### Return to normal screen

Press **MENU**.

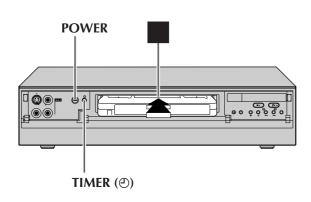


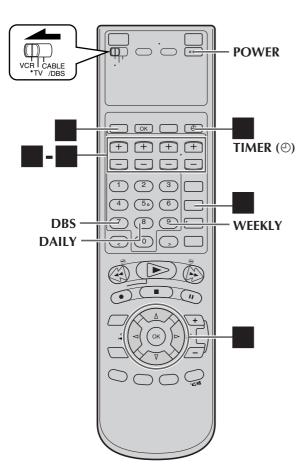




# **Express Timer Programing**

- Turn on the VCR and the TV, and select the AV mode on the TV.
- Set the **VCR/TV/CABLE/DBS** selector on the Remote to "VCR".





You can directly program the VCR's timer to record up to 24 broadcasts, as far as a year in advance. Remember, the clock must be set before you can program the timer ( pg. 10).

#### Load a cassette

Make sure the record safety tab is intact. If not, cover the hole with adhesive tape, then load it into the VCR.

• The VCR turns on, and the counter is reset, automatically.



#### Access VCR PLUS+ screen

Press **PROGRAM**.



#### **Access Program screen**

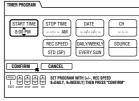
Press **START** +/- once.



#### Set program start time

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

Press and hold
 START +/- to
 increase the time in
 30-minute intervals.





#### Set program stop time

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

• Press and hold **STOP** +/- to increase the time in 30-minute intervals.



#### Set program date

Press **DATE** +/-. (The current date is displayed on the screen. The date you enter appears in its place.)



#### Set channel number

Press TV/VCR CH +/-.

- If you are using a DBS receiver, see "ATTENTION FOR DBS RECEIVER USERS" on next page.
- Holding down TV/VCR CH +/- rapidly changes the channel numbers.



HM-DH40000U-EN34-41 38 1/23/3, 5:22 PM





#### Set recording speed

Press **REC SPEED** to set the recording speed.



#### Return to normal screen

Press <> b to move the arrow to "CONFIRM", then press OK.

"PROGRAM COMPLETED PRESS [TIMER] TO ENTER TIMER STANDBY MODE" appears on the screen, then press **OK** to return to normal screen.



#### Engage timer recording standby mode Press **TIMER** (①).

The VCR turns off automatically and "⊕" is displayed on the front display panel.

#### To timer-record daily or weekly serials

Press DAILY (number "8") or WEEKLY (number "9") anytime during steps through "MON – FRI", "MON – SAT", "SUN – SAT" or "EVERY \_ \_ " appears on the Program screen.

• Pressing the button again makes the corresponding indication disappear.

# To use the VCR while it is in timer recording standby

Press **TIMER** (②) to cancel the timer recording standby mode, then press **POWER** to turn on the VCR. DO NOT forget to put the VCR into timer recording standby mode again by pressing **TIMER** (②) after you use the VCR; otherwise, you cannot record the broadcast

● When "AUTO TIMER" (☐ pg. 57) is set to "ON", the timer recording standby mode is automatically engaged when the VCR is turned off. It is temporarily canceled when the VCR is turned on. You do not have to press TIMER ( - ) to engage or disengage the timer recording standby mode.

#### **NOTES:**

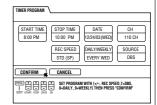
• Even if a power failure occurs, the VCR keeps your timer programs. However, the clock time is lost if it lasts for more

As a result, when the power is supplied again to this VCR after the power failure, the following will take place.

- 1. This VCR starts Auto Clock Set automatically to restore the clock time.
- 2. If the clock time is restored correctly and "AUTO TIMER" is set to "ON", each timer program you have made will start at its start time unless its end time has elapsed.
- Programs that start after midnight must have the next day's
- After timer recording is completed, the VCR turns off automatically.
- You can program the timer recording while a regular recording is in progress; the menu screens will not be
- If the tape reaches its end during timer recording, "⊕", "○", and "⊳" blink.
- To timer-record cable or satellite channels, be sure to keep the cable box or DBS receiver turned on.

#### ATTENTION FOR DBS RECEIVER USERS

If you are using a DBS receiver (unless "INPUT CH" is set to "OFF" on DBS Receiver Set screen ☐ pg. 19), the band indication (TV, CATV or DBS) appears under the channel number



indication (SOURCE).

:To timer-record a regular TV broadcast

received on the VCR.

CATV: To timer-record a cable TV broadcast received on the VCR, or through a cable box (unless "INPUT CH" is set to "OFF" on Cable Set Up screen pg. 16).

**DBS** :To timer-record a satellite broadcast received through a DBS receiver.

#### NOTE:

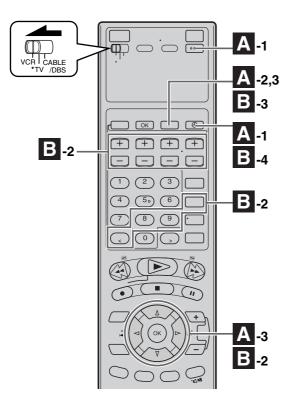
If "BAND" is set to "TV" on the Tuner Set Up Screen (Fig. 14) and "INPUT CH" is set to "OFF" on Cable Set Up screen ( pg. 16), "CATV" will not be displayed on the Program screen; If "BAND" is set to "CATV" or "INPUT CH" is set to "ON" on Cable Set Up screen, "TV" will not be displayed.

If the channel number entered requires that the band be set, "7=DBS" is displayed on the screen. If this happens, press the **Number** key "7 (**DBS**)" to select "DBS".





- Turn on the VCR and the TV, and select the AV mode on the TV.
- Set the **VCR/TV/CABLE/DBS** selector on the Remote to "VCR".



# A Checking program settings

# **1** Disengage timer

Press TIMER (②), then press POWER.

● When "AUTO TIMER" (☞ pg. 57) is set to "ON", you do not have to press **TIMER** (②).

# 2 Access Program List screen

#### Press PROG. CHECK.

• The clock must be set to access the program list.

If you have not set the clock, the Main Menu screen appears after an error message is



displayed. Refer to page 10 for the clock setting procedure.

# 3 Access Program screen

Press  $\triangle \nabla$  to select a program, then press **OK** to check more detailed information.

• To return to the normal screen, press **PROG. CHECK.** 

# B Canceling or changing program settings

# 1 Access Program screen

Repeat steps **1** to **3** in the left column.

### **2** Cancel or change program setting

To cancel a program, press **OK** with the arrow on "CANCEL", then press **OK** with the arrow on "CONFIRM".



OR

press **CANCEL**, then press **OK**.

• "PROGRAM CANCELED" appears on the screen, then press **OK** to return to the program list.

To change a program, press the appropriate button: START+/-, STOP+/-, DATE+/-, TV/VCR CH+/-, DAILY (number "8"), WEEKLY (number "9") and/or REC SPEED, then press OK.

- "PROGRAM COMPLETED PRESS [TIMER] TO ENTER TIMER STANDBY MODE" appears on the screen, then press OK to return to the program list.
- 3 Return to normal screen

Press **PROG. CHECK**.

# **4** Reengage timer recording standby mode Press TIMER (②).

• When "AUTO TIMER" ( pg. 57) is set to "ON", the timer recording standby mode automatically resumes when you turn off the VCR.





#### **ATTENTION**

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

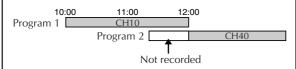
**Pattern 1:** The program with the lower program number will be recorded.



**Pattern 2:** The program starting earlier will be recorded.



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



#### Other Useful functions for timer recording

You can also use the following functions for timer recording.

#### ● Auto Timer (127 pg. 57)

When "AUTO TIMER" is set to "ON", the timer recording standby mode is automatically engaged when the VCR is turned off. It is temporarily canceled when the VCR is turned on. You do not have to press **TIMER** (②) to engage or disengage the timer recording standby mode.

• Auto SP → EP Timer (S-VHS/VHS only) (III pg. 57)
If there is not enough tape to record the entire broadcast for recording in SP mode, the VCR automatically switches to EP mode to allow complete recording. This feature is especially handy when recording a broadcast of more than 2 hours in length.

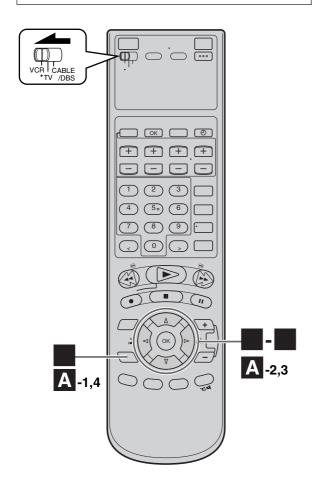






# Navigation Playback

- Turn on the VCR and the TV, and select the AV mode on the TV.
- Set the VCR/TV/CABLE/DBS selector on the Remote to "VCR".



This function is useful when you want to quickly find programs you have recorded on a tape using this VCR. This function allows you to select a program to watch, and then automatically search for the beginning of the program.

#### Load a cassette

Insert a tape recorded on this VCR.

- The VCR turns on automatically.
- The tape will run for a few seconds while the VCR searches for the tape number recorded. If tape number is found, it will be shown on the TV screen if "SUPERIMPOSE" is set to "ON" (Fig. 9g. 57).
- The counter is reset automatically, however, it is not completely reset to "0:00:00".
- If the cassette's record safety tab has been removed, playback begins automatically.



#### **Access Video Navigation screen**

Press NAVI.

 After pressing NAVI, it may take a few seconds to access the Title screen while the VCR searches for the Video



Navigation information.



#### Select program

Press  $\triangle \nabla$  to select the program you want to watch, then press **OK**.



#### Start playback

Press  $\triangleleft \triangleright$  to move the arrow to "PLAY", then press **OK**.

Playback starts automatically after the selected program is located.

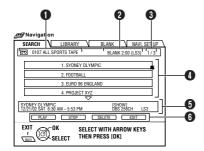
- If you press NAVI while Video Navigation is deactivated, the Navigation Set Up screen appears. Set "NAVIGATION" to "ON" (\$\sigma\$ pg. 43).
- Video Navigation playback is possible only with the tape recorded on this VCR.
- To record the date and time as the program title in this VCR's memory, make sure the VCR's clock is set correctly before recording.
- To record the program information in this VCR's memory, you must record each program for over the minimum recording time; 5 min for the D-VHS (HS) mode, 10 min for the D-VHS (STD) mode, 30 min for the D-VHS (LS3) mode, 50 min for the D-VHS (LS5) mode, 5 min for the S-VHS/VHS (SP) mode and 15 min for S-VHS/VHS (EP) mode.
- Video Navigation may not work properly for some tapes.
- During playback or when searching for the beginning of a program, a VCR might find two different tape numbers recorded on a tape. After you remove this tape, the tape will be assigned just one tape number (the smaller one). After this, the higher tape number will be missing from the memory's tape number list.
- Tape program information is stored in this VCR's memory. If this VCR's memory is damaged and the program information is lost, it is impossible to restore that information.
- After recording a tape on this VCR, write the tape number on a label and affix the label to the tape in order to allow you to find the tape by its number.
- The on-screen display is output to the TV with S-VIDEO, VIDEO, COMPONENT VIDEO signal in 480i image format.







# How to read the Video Navigation screen



- 1 Tape number and tape title
- 2 Maximum blank time on the tape
- [Page No./Total Page No.] (only 4 programs can be shown at a time)
- Program title included on a tape
- **3** The detailed program information currently selected (date, channel, category, start time, end time, recording speed)
- **6** Operational commands

#### Example

SYDNEY OLYMPIC 8:00 (LS3)	BLANK 2:00 (LS3)			ANK 00 53)
	Rlank r	nart*		

\* "BLANK" appears for non-recorded part, the part whose information has been deleted manually ( pg. 52), or the part where new program has been recorded.

# A Deactivating Video Navigation

If you do not want to store program information, you can deactivate the Video Navigation function.

- 1 Access Video Navigation screen Press NAVI.
- 2 Access Navigation Set Up screen

Press  $\triangle \nabla \triangleleft \triangleright$  to move the arrow to "NAVI. SET UP", then press  $\nabla$  or **OK**.



# 3 Deactivate Video Navigation

Press  $\triangleleft \triangleright$ .



# 4 Return to normal screen

Press NAVI.

#### NOTE:

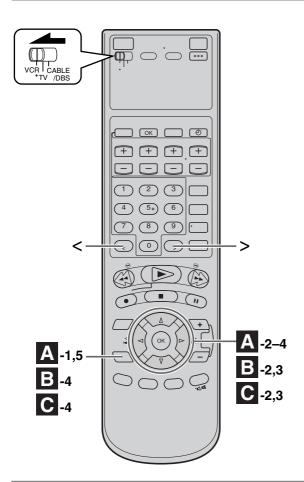
If you press **NAVI** when a cassette is not loaded, "NO TAPE!" appears on the TV screen. If the VCR does not recognize the tape number of the loaded cassette, "UNRECOGNIZED TAPE NUMBER!" appears on the TV screen.





# **Finding Tapes**

- Turn on the VCR and the TV, and select the AV mode on the TV.
- Set the VCR/TV/CABLE/DBS selector on the Remote to "VCR".



# To play back a selected program on the list screen

- Select the program that you want to watch, then press **OK**.
- Insert the corresponding tape.
- Press **OK** again with the arrow on "SEARCH".
- Confirm that the desired program is highlighted, then press **OK**.
  - Playback starts automatically after the selected program is located.

You can find a tape you want using Video Navigation. You have four methods to find tapes; by tape number, by program title, by category, by recording date, and by tape remaining time.

# A Finding by tape number

Use the Remote to do the following operations.

### Access Video Navigation screen Press NAVI.

### 2 Access Library screen

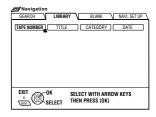
Press  $\triangle \nabla \triangleleft \triangleright$  to move the arrow to "LIBRARY", then press  $\nabla$  or **OK**.



### 3 Access tape number list screen

Press < ▷ to move the arrow to "TAPE NUMBER", then press **OK**.

The tape number list screen appears, being sorted by the tape numbers.



# 4 Confirm tape number lists



1st page (out of 3 pages in this example) of the tape number lists is shown.

Switch for changing the order

- "\*" is displayed beside the tape number of the loaded cassette.
- The cassette mark is displayed on the left of the tape title. The items without the cassette marks are the program titles included in the tape.
- To go to another page of the lists, press < or >.
- To play back the desired program, refer to "To play back a selected program on the list screen" in the left column.

### 5 Return to normal screen

Press **NAVI**.



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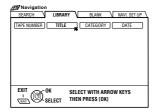
# **B** Finding by program title

Use the Remote to do the following operations.

Follow steps 1 to 2 on page 44, then go to the following steps

### 2 Access title screen

Press  $\triangleleft \triangleright$  to move the arrow to "TITLE", then press **OK**.



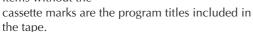
△ SEARCH RETURN DELETE EDIT

SELECT WITH ARROW KEYS

SELECT THEN PRESS [OK]

### 3 Confirm lists

- "\*" is displayed beside the tape number of the loaded cassette.
- The cassette mark is displayed on the left of the tape title. The items without the



- To go to another page of the lists, press < or >.
- To play back the desired program, refer to "To play back a selected program on the list screen" on page 44.

### 4 Return to normal screen

Press NAVI.

# **C** Finding by category

Use the Remote to do the following operations. To find a program by category, be sure to select program category in advance ( program 50).

# 1 Follow steps 1 to 2 on page 44, then go to the following steps

### 2 Access category screen

Press  $\triangleleft \triangleright$  to move the arrow to "CATEGORY", then press **OK**.



### **3** Confirm lists

- "\*" is displayed beside the tape number of the loaded cassette.
- The cassette mark is displayed on the left of the tape title. The items without the

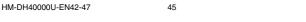


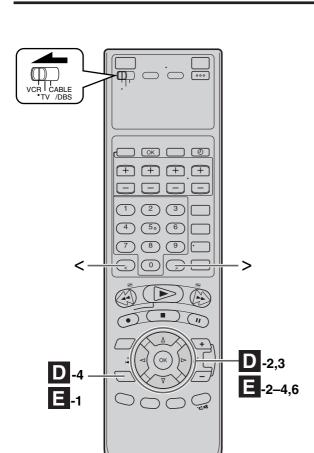
cassette marks are the program titles included in the tape.

- To go to another page of the lists, press < or >.
- To play back the desired program, refer to "To play back a selected program on the list screen" on page 44.

### 4 Return to normal screen

Press **NAVI**.





# Finding by recording date

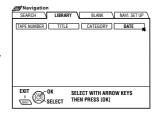
Use the Remote to do the following operations.

# **1** Follow steps 1 to 2 on page 44, then go to the following steps

### 2 Access date screen

Press  $\triangleleft \triangleright$  to move the arrow to "DATE", then press **OK**.

The list screen appears, being sorted by the recording date.



### **3** Confirm lists

- "\*" is displayed beside the tape number of the loaded cassette.
- The cassette mark is displayed on the left of the tape title. The items without the



cassette marks are the program titles included in the tape.

- To go to another page of the lists, press < or >.
- To play back the desired program, refer to "To play back a selected program on the list screen" on page 44.

# 4 Return to normal screen

Press **NAVI**.







# Finding blank space

You can find a tape whose remaining time is enough for a program you want to record.

Use the Remote to do the following operations.

Access Video Navigation screen Press NAVI.

# 2 Access Blank Space List screen

Press  $\triangle \nabla \triangleleft \triangleright$  to move the arrow to "BLANK", then press  $\nabla$  or **OK**.



# 3 Set condition

HM-DH40000U-EN42-47

Press  $\triangle \nabla$  to move the arrow to "RECORDING MODE", then press  $\triangleleft \triangleright$  to select the recording speed.

Press  $\triangle \nabla$  to move the arrow to "BLANK TIME", then press  $\triangleleft \triangleright$  to select the blank time. Then press **OK**.

Navigation  SEARCH LIBRAR	Y V	BLA	NK	NA:	VI. SET UP
BLANK SPACE LIST	RECO	RDING	CONDI	TION	
RECORDING MOD	DE	4	LS3		₽,
BLANK TIME			2:00	1	□
EXIT ~OK	OEI EI	T WIT	J ADDI	ייי איי	ve
SELECT		PRESS			

### 4 Select tape number

Press  $\triangle \nabla$ , then press **OK**.

To go to another page of the lists, press < or</li>

	Mavigation	
	SEARCH LIBRARY BLANK NAVI. SE	TUP \
	BLANK SPACE LIST 10:00 LS5 1	/3
-	0003 10:00 BLANK	
	0002 12:00 BLANK	]
	0001 17:00 BLANK	
	0004 23:00 BLANK	
		_
	TITLE 11/01/29 MON 11:34 AM	
	STOP SEARCH RETURN	
	EXIT OK SELECT WITH ARROW KEYS SELECT THEN PRESS [OK]	

#### **5** Load a cassette

Insert the cassette whose number you have found in step **4**.

#### **6** Select blank

Press  $\triangleleft \triangleright$  to move the arrow to "STOP", then press **OK**.

• The VCR will start search for the beginning of the blank part, then stop.

- 1		$\neg$
	SEARCH \ LIBRARY \ BLANK \ NAVI. SET UP	_
	BLANK SPACE LIST 10:00 LS5 1/3	]
	0003 10:00 BLANK	
	0002 12:00 BLANK	
-	0001 17:00 BLANK	
	0004 23:00 BLANK	
	TITLE 11/01/29 MON 11:34 AM	
	STOP SEARCH RETURN	
	EXIT OK SELECT WITH ARROW KEYS	
	SELECT THEN PRESS [OK]	

# 7 Prepare for recording

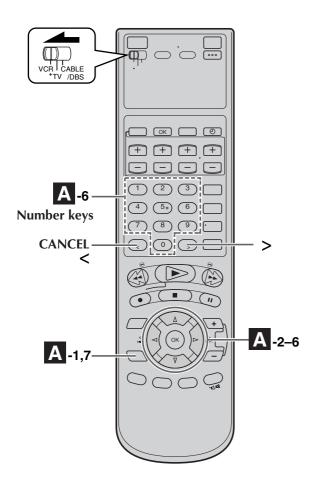
See page 26 for recording.





# **Editing Titles**

- Turn on the VCR and the TV, and select the AV mode on the TV.
- Set the VCR/TV/CABLE/DBS selector on the Remote to "VCR".



When you record a TV program on this VCR, the VCR automatically records the recording start time, date, and channel in each program title. If the tape is recorded for the first time, the tape number and the date and time are recorded in the tape title. You can then edit the tape title and the program titles as you like. You can also edit the category in the program title.

In short, you can use the Video Navigation function to create your own video tape library.

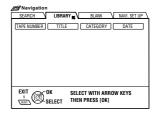
# A Editing tape title

When you want to edit the tape title, follow the procedure below by using the Remote.

1 Access Video Navigation screen Press NAVI.

# 2 Access Library screen

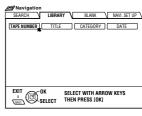
Press  $\triangle \nabla \triangleleft \triangleright$  to move the arrow to "LIBRARY", then press  $\nabla$  or **OK**.



# Access tape number list screen

Press 
Press

The tape number list screen appears, being sorted by the tape numbers.



# 4 Select tape number

Press  $\triangle \nabla$  to select the tape number for which you want to edit the title, then press **OK**.



- "\*" is displayed beside the tape number of the loaded cassette.
- The cassette mark is displayed on the left of the tape title. The items without the cassette marks are the program titles included in the tape.
- To go to another page of the lists, press < or >.



### 5 Access edit screen

Press  $\triangleleft \triangleright$  to move the arrow to "EDIT", then press **OK**.



SELECT WITH ARROW KEYS

THEN PRESS [OK]

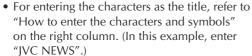
### 6 Enter title

Press △∇ ⊲ ▷ to move the arrow on the desired character or symbol, then press OK.

OK.

Press the **Number** 

keys to enter the title.



2 Press  $\triangle \nabla \triangleleft \triangleright$  to move the arrow to "ENTER", then press **OK**.

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### 7 Return to normal screen

Press **NAVI**.

# How to enter the characters and symbols with the number keys on the Remote

Press the **Number** keys, then press > to enter each character.

Refer to the example below.

#### (Ex.) Enter "JVC NEWS".

- ① Press **5** (**JKL**) once to enter "J", then press >.
- ② Press 8 (TUV) three times to enter "V", then press >.
- 3 Press **2** (**ABC**) three times to enter "C", then press >.
- 4 Press **0** (—) twice to enter "— (space)", then press >.
- 5 Press 6 (MNO) twice to enter "N", then press >.
- 6 Press **3 (DEF)** twice to enter "E", then press >.
- 7 Press 9 (WXYZ) once to enter "W", then press >.
- ® Press 7 (PQRS) four times to enter "S", then press >.

NUMBER KEY	CHARACTERS	
1	.,?-+*/[]1	
2	ABCabc2	
3	DEFdef3	
4	GHIghi4	
5	JKLjkl5	
6	M N O m n o 6	
7	PQRSpqrs7	
8	TUVtuv8	
9	WXYZwxyz9	
0	0 _(space)	

- If you want to delete a character, select the character, then press **CLEAR** or press **OK** with the arrow on "ERASE".
- If you want to delete all characters, press **OK** with the arrow on "ALL ERASE".







# **B** Entering or Editing program title

When you want to edit the program title, follow the procedure below by using the Remote.

1 Load a cassette

Insert a tape on which there is a program you want to edit.

2 Access Video Navigation screen

Press NAVI.

3 Select program

Press  $\triangle \nabla$  to select the program you want to edit, then press **OK**.

Mavigation					
SEARCH LIBRARY	BLANK NA	VI. SET UP			
0107 ALL SPORTS TAPE	BLANK 2:00 (LS:	3) 1/3			
1. SYDNEY OLYM	PIC	_			
2. FOOTBALL					
3. EURO 96 ENGL	3. EURO 96 ENGLAND				
4. PROJECT XYZ					
I					
SYDNEY OLYMPIC 12/21/02 SAT 6:30 AM - 5:53 PM	(SHOW) DBS 256CH	LS3			
PLAY STOP	DELETE EDIT				
EXIT OK SELECT WITH ARROW KEYS THEN PRESS [OK]					

4 Access edit screen

Press  $\triangleleft \triangleright$  to move the arrow to "EDIT", then press **OK**.

Mavigation				
SEARCH LIBRARY BLANK NAVI. SET UP	_			
OTO 0107 ALL SPORTS TAPE BLANK 2:00 (LS3) 1/3				
1. SYDNEY OLYMPIC				
2. FOOTBALL				
3. EURO 96 ENGLAND				
4. PROJECT XYZ				
SYDNEY OLYMPIC [SHOW] 12/21/02 SAT 6:30 AM - 5:53 PM DISS 256CH LS3 PLAY STOP DELETE EDIT				
EXIT OK SELECT WITH ARROW KEYS SELECT THEN PRESS [OK]				

SELECT WITH ARE THEN PRESS [OK]

5 Enter title

Press △∇ ⊲ ⊳ to move the arrow on the desired character or symbol, then press OK.

OR

Press the **Number** 

keys to enter the title.

- For entering the characters as the title, refer to "How to enter the characters and symbols" on page 49. (In this example, enter "JVC NEWS".)
- Press  $\triangle \nabla \triangleleft \triangleright$  to move the arrow to "ENTER", then press **OK**.
- 6 Return to normal screen

Press NAVI.

# **C** Editing program category

When you want to change the program category, follow the procedure below by using the Remote.

1 Load a cassette

Insert a tape on which there is a program you want to edit

2 Access Video Navigation screen

Press **NAVI**.

3 Select program

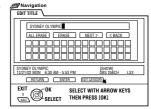
Press  $\triangle \nabla$  to select the program you want to edit, then press **OK**.

4 Access edit screen

Press  $\triangleleft \triangleright$  to move the arrow to "EDIT", then press **OK**.

5 Access category screen

Press  $\triangle \nabla \triangleleft \triangleright$  to move the arrow to "EDIT CATEGORY", then press **OK**.



**6** Select category

Press  $\triangle \nabla \triangleleft \triangleright$  to select the category you want, then press **OK**.

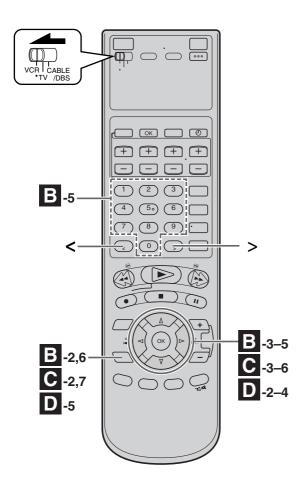
Mavigation EDIT CATEGORY	1			
MOVIES	SOAPS	SPORTS	NEWS	
CHILD	EDUCATION	SERIES	SPECIAL	
MUSIC	COMEDY	CLASSIC	SHOPPING	
RELIGION	OTHERS	MISCELLANY		
SYDNEY QLYMPIC 1221/02 MON 6:30 AM - 5:53 PM BS 256CH LS3  RETURN FOR TITLE				
EXIT OK SELECT WITH ARROW KEYS  SELECT THEN PRESS [OK]				

7 Return to normal screen

Press NAVI.







# **D** Deleting tape information

When you want to delete the entire tape information (information for all recorded programs on the tape), follow the procedure below by using the Remote.

• Tape information for the Video Navigation function is deleted, but the recorded programs will not be erased.

#### **ATTENTION**

Once the information is deleted, it is impossible to restore that information.

# 1 Follow steps 1 to 3 on page 48, then go to the following steps

### 2 Select tape number

Press  $\triangle \nabla$  to select the tape number for which you want to edit the title, then press **OK**.



- "\*" is displayed beside the tape number of the loaded cassette.
- The cassette mark is displayed on the left of the tape title. The items without the cassette marks are the program titles included in the tape.
- To go to another page of the lists, press < or >.

# 3 Access delete screen

Press  $\triangleleft \triangleright$  to move the arrow to "DELETE", then press **OK**.



### 4 Delete tape information



5 Return to normal screen

Press **NAVI**.





# **E** Deleting program information

When you want to delete the stored information for each recorded program, follow the procedure below by using the Remote.

• Program information for the Video Navigation function is deleted, but the recorded program will not be erased.

#### **ATTENTION**

Once the information is deleted, it is impossible to restore that information.

1 Load a cassette

Insert a tape on which there is a program you want to edit.

2 Access Video Navigation screen

Press NAVI.

3 Select program

Press  $\triangle \nabla$  to select the program you want to edit, then press **OK**.



- "\*" is displayed beside the tape number of the loaded cassette.
- The cassette mark is displayed on the left of the tape title. The items without the cassette marks are the program titles included in the tape.
- To go to another page of the lists, press < or >.

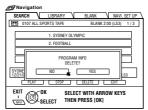
# 4 Access delete screen

Press  $\triangleleft \triangleright$  to move the arrow to "DELETE", then press **OK**.



# **5** Delete program information

Press < > to move the highlight bar to "YES", then press **OK**.



### **6** Return to normal screen

Press NAVI.

# Checking memory

You can check the amount of recorded information in the VCR's memory.

1 Access Video Navigation screen Press NAVI.

2 Access Navigation Set Up screen

Press  $\triangle \nabla \triangleleft \triangleright$  to move the arrow to "NAVI. SET UP".

3 Check memory

The percentage of the used memory is displayed.



### 4 Return to normal screen

Press NAVI.

**If memory is full,** you have to delete unwanted information to store more information in the VCR's memory.



# Useful Function Settings

- Turn on the VCR and the TV, and select the AV mode on the TV.
- Set the **VCR/TV/CABLE/DBS** selector on the Remote to "VCR".

You can use the other useful function settings on the Function Set Up screens by following the procedure described below.

The table below shows the structure of the menu system.

FUNCTION SET UP	VIDEO FUNCTION (\$\mathbb{C}\$ pg. 54) AUDIO FUNCTION (\$\mathbb{C}\$ pg. 55) IN/OUT FUNCTION (\$\mathbb{C}\$ pg. 56) ADDITIONAL (\$\mathbb{C}\$ pg. 57)
--------------------	--

• For the functions you can set on the Function Set Up screen, see pages 54 to 59.



#### **Access Main Menu screen**

Press **MENU**.



#### **Access Function Set Up screen**

Press  $\triangleleft \triangleright$  to move the arrow to "FUNCTION SET UP", then press  $\nabla$  or **OK**.

5	FUNCTION SET UP \ INITIAL SET UP \					
	VIDEO FUNCTION AUDIO FUNCTION INJOUT FUNCTION ADDITIONAL					
	V. CALIBRATION	ON				
	PICTURE CONTROL	AUT0				
	DIGITAL R3	ON				
	VIDEO STABILIZER	OFF				
	MENU OK SELECT WI THEN PRES	TH ARROW KEYS SS [OK]				



#### **Select Function Menu**

Press  $\triangleleft \triangleright$  to move the arrow to the menu of the function you want to set, then press  $\nabla$  or **OK**.

FUNCTION SET UP \ INITIAL SET UP \				
VIDEO FUNCTION AUDIO FUNCTION IN/OUT FUNCTION ADDITIONAL				
V. CALIBRATION	ON			
PICTURE CONTROL	AUT0			
DIGITAL R3	ON			
VIDEO STABILIZER	OFF			
OK SELECT WITH ARROW KEYS THEN PRESS [OK]				



#### **Select Function**

Press  $\triangle \nabla$  to move the arrow to the function you want to set.

FUNCTION SET UP \ TUNER SET UP \ INITIAL SET UP \				
(VIDEO FUNCTION) AUDIO FUNCTION INJOUT	FUNCTION ADDITIONAL			
V. CALIBRATION	⊲ on ⊳			
PICTURE CONTROL	AUTO			
DIGITAL R3	ON			
VIDEO STABILIZER	OFF			
OK SELECT WITH ARROW KEYS THEN PRESS [OK]				



#### Change setting

Press  $\triangleleft \triangleright$ .



#### Return to normal screen

Press **MENU**.

#### *NOTE:*

To go back to a previous screen during settings, press BACK.

HM-DH40000U-EN53-63 53 1/22/3, 5:45 PM

### **Video settings [VIDEO FUNCTION]**

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

■ V. CALIBRATION		
(S-VHS/VHS only)		
ON		
OFF		

When this function is set to "ON", this VCR checks the condition of the tape in use during playback and recording, and compensates to provide the highest-possible pictures. This takes place whenever you play back a tape or start recording after inserting a tape.

#### NOTES:

- During playback, this function is always working even though "VIDEO CALIBRATION" appears just at the beginning of automatic tracking.
- During recording, this function works only for the first SP recording and the first EP recording on an inserted tape.
  - For timer recording, this function checks the tape condition both for the SP recording and the EP recording before the first timer recording starts.
- When you play back rental tapes or tapes recorded on other VCRs, set this function either "ON" or "OFF" whichever gives you the best picture.

### **■ PICTURE CONTROL** (S-VHS/VHS only) **AUTO (NORM)**

**EDIT** SOFT SHARP

This function helps you to adjust the playback picture quality according to your preference.

AUTO: Normally select this. Picture quality is adjusted

(NORM) automatically.

When "V. CALIBRATION" is "OFF", "NORM" will appear instead of "AUTO". The quality is not adjusted automatically when "NORM" appears.

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

SOFT: Reduces image coarseness when viewing overplayed tapes containing much noise.

SHARP: Clearer, sharper-edged picture when viewing images with much flat, same-colored surfaces such as cartoons.

#### **NOTES:**

- When you select "EDIT", "SOFT" or "SHARP", the selected mode will not change until you select again.
- Select "EDIT" when you are editing tapes ( pg. 67). After you finish editing the tapes, select "AUTO" ("NORM" when "V. CALIBRATION" is "OFF".)

#### ■ DIGITAL R3 (S-VHS/VHS only) ON OFF

When this function is set to "ON", edge correction to the luminance signal is performed to enhance details. Normally set this function to "ON".

#### **NOTES:**

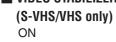
- Depending on the type of tape being used, picture quality may be better with "DIGITAL R3" set to "OFF"
- If you use this VCR as the playback VCR for editing, be sure to set "DIGITAL R3" to "OFF" before starting.

#### **■ VIDEO STABILIZER** (S-VHS/VHS only) ON **OFF**

When this function is set to "ON", you can correct vertical vibrations in the picture when playing back unstable recordings made on another

This function is available only when playing back tapes recorded in EP mode.

- When you finish viewing a tape, be sure to set this function to "OFF".
- Regardless of the setting, this function has no effect during recording and during special effects playback.
- To watch recordings with close-caption, set this function to "OFF".
- When this function is set to "ON", the vertical vibrations may occur. Press **CHANNEL** + or – on the VCR (or **TV/VCR CH** + or – on the Remote) to eliminate vibration.







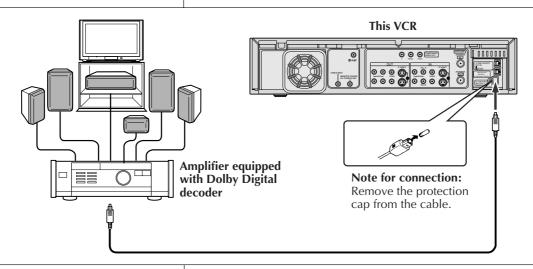




# **Audio settings [AUDIO FUNCTION]**

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

STD AUDIO REC MODE STANDARD PCM&STANDARD	analog signal from co	dio format when you record a program or nected devices in STD mode. When this M&STANDARD", you can obtain high-quality  Select this when the picture quality is important and when you record in MP2 format.  Select this when the sound quality is important. When you record the analog signals or DV signals from the camcorder in STD mode, PCM audio is also recorded in addition to MP2 audio. In HS mode, PCM audio is automatically recorded.
DV AUDIO REC AUDIO1 AUDIO2 1+2MIX	Up to four audio signal channels can be input from a DV camcorder through the DV IN connector (i.LINK). This VCR allows you to select and record two of these channels. This setting is used to specify which two channels to record.  When there are four DV audio channels (32kHz):  AUDIO1: Records the two channels (L/R) of DV AUDIO 1.  AUDIO2: Records the two channels (L/R) of DV AUDIO 2.  1+2MIX: Mixes and records both DV AUDIO 1 and 2.  When there are two DV audio channels (48kHz):  Because there are only two channels, those two channels are recorded regardless of the DV sound setting.	
■ OPTICAL OUT  Dolby D  2CH-PCM STREAM	This VCR can send the Dolby Digital bitstream or PCM Audio to external devices.  When you play back a tape including the Dolby Digital bitstream, and if you have a device equipped with Dolby Digital decoder, set this function to "Dolby D".  If not, set this function to "2CH-PCM".  "STREAM" will be used when playing back and receiving a audio signals in other new formats.	



#### ■ 2ND AUDIO REC

ON **OFF** 

#### When this function is set to "ON";

- If a SAP program is received, the SAP audio is recorded on both the normal and Hi-Fi tracks. The main audio is not recorded.
- If a non-SAP program is received, the main audio is recorded on both the Hi-Fi and normal tracks.

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

CONTINUED ON NEXT PAGE →





# Input/Output settings [IN/OUT FUNCTION]

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

■ TV 0UTPUT 1 720to1080 NO CONV.	Select the apppropriate mode when receiving signals via i.LINK connector or playing back a D-VHS tape containing a recording of an HD (High Definition) signal:		
ALLto480i	<ul> <li>720to1080: 720p is up-converted to 1080i and output to the TV. 1080i, 480p, and 480i image formats are output to the TV without being converted. Select this when the 720p image played back is distorted.</li> <li>NO CONV.: 1080i, 720p, 480p, and 480i image formats are output to the TV just as they are.</li> </ul>		
	ALLto480i: All images will be output to the TV in 480i image format.		
	NOTE:		
	When you receive signals via i.LINK connector or play back the picture of 1080i, 720p, 480p image format, the signal is not output from the S-VIDEO or VIDEO output connector if "TV OUTPUT 1" is set to "720to1080" or "NO CONV.".		
■ TV OUTPUT 2	Select the apppropriate mode depending on the type of TV you have.		
WIDE 16:9 NORMAL 4:3	WIDE 16:9: Select this for a wide TV set with 16:9 screen image size.  NORMAL 4:3: Select this for a TV set with 4:3 screen image size.		
	<ul> <li>NOTES:</li> <li>When "TV OUTPUT 2" is set to "WIDE 16:9", sometimes the screen image may be stretched vertically.</li> <li>When "TV OUTPUT 2" is set to "NORMAL 4:3", sometimes subtitles may not be visible or the ends of the screen image may be cut off. Normally select "WIDE16:9".</li> <li>In order to let the equipment determine the screen image size, it is recommended that you connect the VCR and TV using the component video output connectors or S VIDEO OUT connector.</li> </ul>		
■ FRONT AUX F-1 VIDEO	You have to select which terminal — either VIDEO (composite) or S-VIDEO (Y/separate signals) to use as the video input terminal on the front panel.		
S-VIDEO	Make sure to select the correct terminal; otherwise, you may fail in recording (editing) on this VCR.		
■ REAR AUX L-1 VIDEO S-VIDEO	You have to select which terminal — either VIDEO (composite) or S VIDEO (Y/C separate signals) to use as the video input terminal (L-1) on the rear panel.		
	Make sure you select the correct terminal; otherwise, you may fail in recording (editing) on this VCR.		
■ REAR AUX L-2 VIDEO	You have to select which terminal — either VIDEO (composite) or S VIDEO (Y/C separate signals) to use as the video input terminal (L-2) on the rear panel.		
S-VIDEO	Make sure you select the correct terminal; otherwise, you may fail in recording (editing) on this VCR.		









# Additional settings [ADDITIONAL]

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

	The deladit setting is <b>bold</b> in the table below.		
■ AUTO SP → EP TIMER (S-VHS/VHS only) ON OFF	When this function is set to "ON", the VCR automatically switches to EP mode to allow complete recording if there is not enough tape to record the entire program while timer-recording in SP mode.  For Example  Recording a program of 140 minutes in length onto a 120-minute tape		
	Approximately 110 minutes Approximately 30 minutes		
	SP mode EP mode		
	Make sure you set this function to "ON" before the timer-recording starts.		
	NOTES:		
	<ul> <li>If you have programed the VCR to timer-record 2 or more programs, the second program and those thereafter may not fit on the tape with this function set to "ON". In this case, do not use this function, but change the recording speed manually during timer programing.</li> <li>In order to ensure that the recording fits on the tape, this function may leave a slight non-recorded portion at the end of the tape.</li> <li>There may be some noise and sound disturbance where the recording speed switches from SP to EP mode on the tape.</li> <li>This function is not available during ITR (Instant Timer Recording), and will work properly on the following tapes: T(ST)-30, T(ST)-60, T(ST)-90, and T(ST)-120.</li> </ul>		
■ AUTO TIMER ON OFF	<ul> <li>When this function is set to "ON":         The timer recording standby mode is automatically engaged when the VCR is turned off. It is temporarily canceled when the VCR is turned on. You do not have to press TIMER (②) to engage or disengage the timer recording standby mode.     </li> <li>When this function is set to "OFF":         You have to press TIMER (②) to engage or disengage the timer recording standby mode.     </li> </ul>		
SUPERIMPOSE ON	When this function is set to "ON", various VCR status information (on-screen display) appears on the screen.		
OFF	NOTES:		
	<ul> <li>When you use this VCR as the playback VCR for editing a tape, be sure to set this function to "OFF"; otherwise, the VCR status information (on-screen display) will be recorded on the edited tape.</li> <li>If you select a channel on which no signal is received, the channel number is displayed regardless of this function setting.</li> </ul>		
GRAY BACK ON OFF	When this function is set to "ON", the VCR changes the screen into the gray back screen automatically after/while the input signals do not come into.		
POWER SAVE ON OFF	When this function is set to "ON", you can reduce the power consumption. While the VCR is turned off, the front display panel does not show the clock.  When this function is set to "ON", an i.LINK device cannot be recognized. As a result, it is not possible to record a program using the digital tuner's* timer function. In addition the device does not pass along data if it is in a branched connection.  * For details of a digital tuner, refer to the instruction manual of the digital tuner.  NOTE:  It takes some time until VCR completes its set up when you turn on the VCR.		

CONTINUED ON NEXT PAGE →







# S-VHS MODE ON OFF

You can determine which recording mode — either S-VHS mode or VHS mode — is used for recording on D-VHS and S-VHS tapes.

When this function is set to "ON", you can record on D-VHS and S-VHS tapes with S-VHS picture quality.

When this function is set to "OFF", you can record on D-VHS and S-VHS tapes with VHS picture quality.

#### **NOTES:**

- To record in S-VHS/VHS mode on D-VHS tape, press D-VHS to turn off the D-VHS indicator.
- S-VHS mode allows you to make high quality video recordings with horizontal resolution of 400 lines, comparing with the 230 lines of resolution of conventional VHS recordings. To achieve the highest quality picture we recommend to record in S-VHS mode. (But remember that a conventional VHS VCR without SQPB cannot play back S-VHS tapes recorded in S-VHS mode.)
- S-VHS MODE setting does not affect recording on VHS tapes. Recording on VHS tapes is always performed in VHS mode except when using S-VHS ET mode ( pg. 59).

# ON OFF

The REMOTE PAUSE/AV COMPULINK terminal on the rear panel can be used as either the REMOTE PAUSE terminal or the AV COMPULINK terminal.

When this function is set to "ON", you can use this terminal as the AV COMPULINK terminal.

By connecting other JVC's AV COMPULINK components (see the diagram below), including amplifiers (or receivers) and televisions, one touch control of the audio and video components linked via their AV COMPULINK connectors becomes possible.

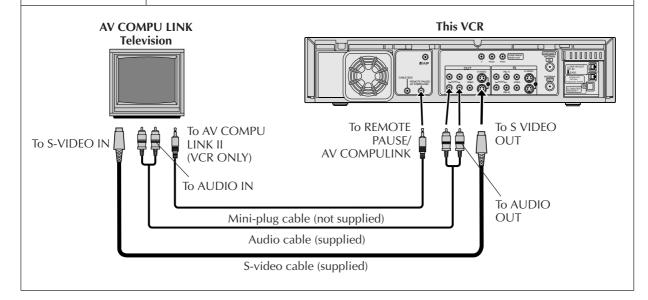
For example: simply load a cassette in the VCR and press PLAY ( ▶ ) so that the AV COMPULINK components automatically turn on, the TV's AV mode is selected and the VCR starts playback. (You do not have to press PLAY ( ▶ ) if the cassette's record safety tab is removed.)

When this function is set to "OFF", you can use this terminal as the REMOTE PAUSE terminal (F) pg. 67).

#### **NOTES:**

58

- When the remote control code is set to "C" or "D", the connector cannot be used as AV COMPULINK terminal even if "AV COMPU-LINK" is set to "ON". It is recommended to set the remote control code to "A" when you use this function. ( pg. 71).
- Connection varies depending on the type of JVC TV you have. Refer to the TV's instruction manual when making this connection.







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

# S-VHS ET ON OFF

This function allows you to record on VHS tapes with S-VHS picture quality. Tapes recorded using this function can be played back on a VCR equipped with the S-VHS ET function. The S-VHS indicator lights up on the front display panel when "S-VHS ET" is set to "ON".

#### **NOTES:**

- Before recording, make sure that "V. CALIBRATION" is set to "ON" ( pg. 54).
- You cannot activate the S-VHS ET function...
  - while recording is in progress.
  - while timer-recording or Instant Timer Recording (☐ pg. 28) is in progress.
- while Video Calibration (☐ pg. 54) is in progress.
- S-VHS ET does not work with S-VHS tapes.
- To keep the highest quality recording and playback pictures over a long period of time, S-VHS recording on S-VHS tapes is recommended.
- Use of high grade tapes are recommended for S-VHS ET recordings.
   On some tapes, picture quality will not improves even if the S-VHS ET function is used. Check the recording quality before you start important recordings.
- You can play back S-VHS ET recordings on most of S-VHS VCRs and of VHS VCR equipped with SQPB (S-VHS QUASI PLAYBACK) function. (Notice some VCRs are not compatible with this function.)
- While playing back a tape recorded with this function on some tapes, noise may appear. (If playback picture becomes blurred or interrupted, use a cleaning cassette.)
- During special effect playback ( pg. 31), noise may appear. If special effect playback is performed frequently on a tape recorded with this function, the tape may be damaged and picture may be deteriorated.

# ON OFF

When this function is set to "OFF", only ":" appears on the front display panel.

#### NOTE:

Even if you set "DISPLAY" to "OFF", each item appears on the front display panel in the following cases;

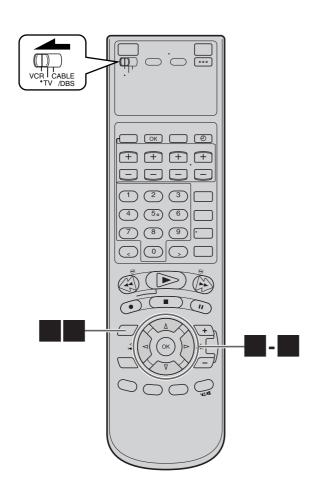
- in the satellite Auto Recording standby mode ( pg. 62)
- during Plug & Play setting (© pg. 9)
- ullet when you press **REC** ( ullet ) twice for the ITR ( $\Box$  pg. 28)
- when you set the remote control code ( pg. 71)
- when you press **DISPLAY**, the current status appears for a few seconds.





# i.LINK Set Up

- Turn on the VCR and the TV, and select the AV mode on the TV.
- Set the VCR/TV/CABLE/DBS selector on the Remote to "VCR".



#### **ATTENTION**

If the i.LINK setting does not work, press **D-VHS** and **STOP/EJECT** ( ■/♠ ) simultaneously for more than 5 seconds to reset the settings. The cassette is automatically ejected.

#### LINC

You can control one of the i.LINK-compatible devices connected to this VCR with the i.LINK cable. "LINC" means to select one of the connected devices. After establishing a LINC with an i.LINK-compatible device, you're ready to control the i.LINK device.

LINC (Logical Interface Connection) involves establishing a logical connection, as the abbreviation implies.

### i.LINK set up for connected device

When you connect i.LINK compatible devices to this VCR, an i.LINK device number is assigned to each device in the order of connection.

If you want to change the number, follow the procedure below.

#### Access Main Menu screen

Press MENU.



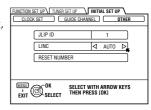
#### Access i.LINK Set Up screen

- Press  $\triangleleft \triangleright$  to move the arrow to "INITIAL SET UP", then press  $\triangledown$  or **OK**.
- 2 Press  $\triangleleft$  ▷ to move the arrow to "OTHER", then press  $\triangledown$  or **OK**.



#### **Confirm LINC setting**

Check that "LINC" is set to "AUTO". If not, press  $\triangle \nabla$  to move the arrow to "LINC", then press  $\triangleleft \triangleright$  to set to "AUTO".





#### **Reset Number**

Press  $\triangle \nabla$  to move the arrow to "RESET NUMBER", then press **OK**.





#### Return to normal screen

Press **MENU**.



#### Set Number again

Connect the external devices one by one.

- Make sure to connect the VCR's AC power plug to the AC outlet and turn on the external device before connection.
- Each device will be numbered in the order of connection.

- If you do not want to set i.LINK device number, set "LINC" to "OFF" in step ■.
- You cannot use the i.LINK connection depending on the types of camcorder equipped with the DV connector. In this case, set "LINC" to "OFF" in step ...



# <del>-</del>

#### What is "i.LINK"?

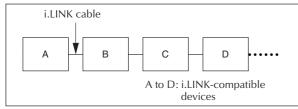
"i.LINK" is a digital serial interface that allows devices equipped with an i.LINK connector to exchange digital video signals, digital audio signals, and device control signals bi-directionally over a single cable.

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

This VCR uses a four-pin i.LINK connector to input and output MPEG2 video signals, audio signals, and control signals. The i.LINK connector is also used as an input for DV compressed signals from the DV output of a digital video camera.

#### i.LINK Connection

i.LINK-compatible devices can be connected in daisy chain fashion using i.LINK cables.

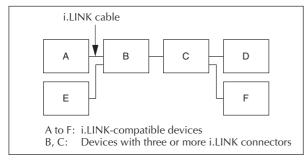


Any two devices in the daisy chain can exchange data bi-directionally, even if there are other devices connected between them.

i.LINK also supports a "repeater function" that passes input MPEG2 and DV signals through to the next device in the chain.

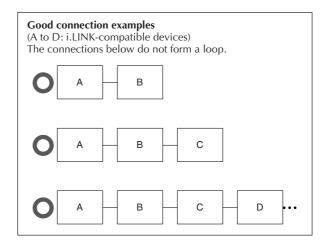
#### i.LINK Branched Connection

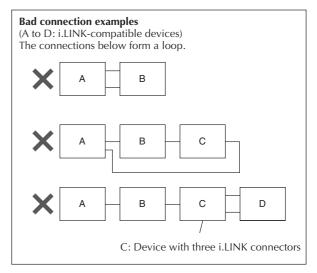
If you are connecting a device that is equipped with three or more i.LINK connectors, you can also branch the i.LINK connection.



### i.LINK Connection Examples

Examples of good i.LINK connections and bad i.LINK connections are shown below. The digital signals flow to all connected devices. When connecting i.LINK devices, make sure that the devices are connected in such a way that digital signals do not return (loop back) to the device that output them. Looped connection is not permitted.





- You can connect as many as 63 devices (including this VCR) through an i.LINK connection. If you use a branched i.LINK connection, however, the maximum path length on a branch is 17 devices.
- In the case of a personal computer and some other devices, data is not passed along by those devices if the device power is off. For details, refer to the instruction manual for the connected device.

  Furthermore, data is not passed along by this VCR when "POWER SAVE" is set to "ON" on this VCR (Fig. 57) and the VCR is turned off
- The maximum data transfer speed supported by the i.LINK connector on this VCR is 400Mbps (approximately 400 megabits per second). The maximum data transfer speed that is actually attained may be slower depending on how this VCR is used or if a device with a slower transfer speed is connected to this VCR.
- Use the S400 i.LINK cable.





#### **OTHER USEFUL FUNCTIONS (cont.)**

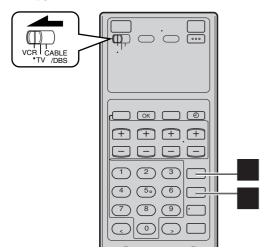
# Satellite Auto Recording

- Turn on the VCR and the TV, and select the AV mode on the TV.
- Set the VCR/TV/CABLE/DBS selector on the Remote to "VCR".

This function allows you to automatically record a satellite program which is timer-programed on your DBS receiver.

**Preparation:** Connect a DBS receiver to the AUDIO/VIDEO IN or S VIDEO IN (L-1) connectors\* on the rear; otherwise, you cannot use this function.

- You can also connect the cable box if it has a timer.
- \* To use these connectors, you have to select which one to use (\$\sigma\$ pg. 56).





#### Set timer program on DBS receiver

• For timer programing method, refer to the manual supplied with the DBS receiver.



#### Load a cassette

Make sure the record safety tab is intact.



#### Set recording speed

Press **REC SPEED** to set the recording speed.



# Engage Satellite Auto Recording standby mode

Turn off the DBS receiver.

Press and hold **REC LINK** on the Remote for more than 2 seconds.

The VCR turns off automatically and the "L-1" and "①" appears on the front display panel (Satellite Auto Recording standby mode). When the DBS receiver outputs a signal, the VCR starts recording and the "L-1" blinks and the record (○) indicator lights. The VCR stops recording and powers off when the DBS receiver stops outputting a signal.

 Each time you press the button, Satellite Auto Recording standby mode turns on and off.
 When it is off, "L-1" disappears.

**IMPORTANT:** Be sure not to turn on the DBS receiver before the program starts broadcasting; otherwise, the VCR will start recording when the DBS receiver is turned on

#### **NOTES:**

- While the Satellite Auto Recording standby mode or after Satellite Auto Recording is finished, the VCR will not enter the timer recording standby mode even though "AUTO TIMER" is set to "ON" (\$\sup\$ pg. 57).
- If you turn off this VCR while Satellite Auto Recording is in progress, recording stops.
- Video Calibration ( pg. 54) does not work while Satellite Auto Recording is in progress.
- Auto Clock ( pg. 11) does not work while in the Satellite Auto Recording standby mode.
- The VCR may not record a short portion at the beginning of the program or may record slightly longer than the actual length of the program when Satellite Auto Recording method is used.
- If you engage the Satellite Auto Recording standby mode while the DBS receiver is turned on, the VCR will not start Satellite Auto Recording, and "L-1" and "①" blink on the front display panel. When you turn off the DBS receiver, "L-1" and "①" light up and the VCR enters the Satellite Auto Recording standby mode.
- If you have connected another component other than a DBS receiver (or cable box) to the AUDIO/VIDEO IN or S VIDEO IN (L-1) connectors, be sure not to engage the Satellite Auto Recording standby mode; otherwise, the VCR will start recording when the connected component is turned on.
- Satellite Auto Recording and timer-recording cannot be performed at the same time.
- If the "L-1" blinks quickly on the front display panel in the Satellite Auto Recording standby mode (even though your DBS receiver is turned off), Satellite Auto Recording will not work properly.

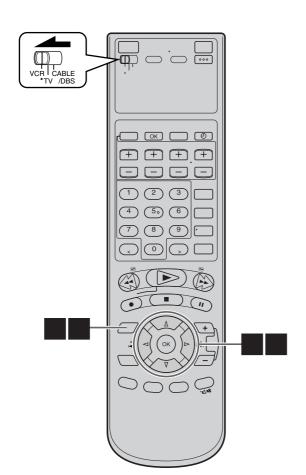
If this is the case, perform "Express Timer Programing" (Fig. 98) to timer-record a satellite program.

(Some DBS receivers output signals even if the power is off. Satellite Auto Recording is not possible with those DBS receivers.)



# JUP ID Number Setting

- Turn on the VCR and the TV, and select the AV mode on the TV.
- Set the VCR/TV/CABLE/DBS selector on the Remote to "VCR".



The JLIP (Joint Level Interface Protocol) terminal is used to connect the VCR to a personal computer or similar device. By connecting through the JLIP terminals, you can control the VCR during editing and certain other operations, from the connected personal computer or similar device.

When connecting this VCR to another device using the JLIP terminals, each device must have a different JLIP ID number.

The JLIP ID number of this VCR is preset to "1" when shipped from the factory. You can change this number to any other number between 1 to 99.

**To change the JLIP ID number of this VCR,** follow the procedure below.



#### **Access Main Menu screen**

Press **MENU**.



#### Select JLIP ID Set Up screen

- ☐ Press  $\triangleleft \triangleright$  to move the arrow to "INITIAL SET UP", then press  $\triangledown$  or **OK**.
- 2 Press  $\triangleleft$  ▷ to move the arrow to "OTHER", then press  $\triangledown$  or **OK**.



#### **Set JLIP ID Number**

Press  $\triangle \nabla$  to move the arrow to "JLIP ID".

Press  $\triangleleft \triangleright$  to enter the desired ID number.





#### Return to normal screen

Press **MENU**.

#### NOTF:

For further details on the JLIP system or devices, consult your nearest JVC dealer.

U.S. customers can contact JVC directly toll free at 1-800-252-5722





# i.LINK/DV Connections

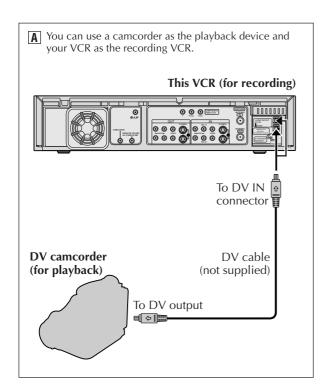
#### **NOTES:**

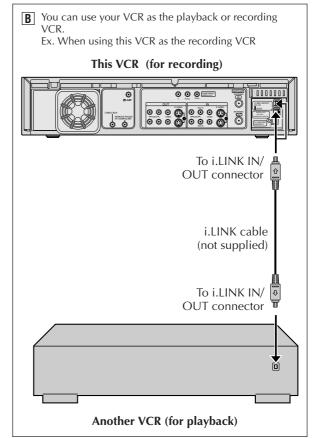
- You cannot use the i.LINK connection depending on the type of camcorder equipped with the DV connector. In this case, set "LINC" to "OFF" (IF pg. 60)
- If the 44.1 kHz PCM audio signal is input via DV connector, recording cannot be performed properly.

This VCR supports the copy protection technologies of DTLA (Digital Transmission Licensing Administrator). These technologies are admitted by DTLA (Digital Transmission Licensing Administrator).

It is impossible to dub copy-limited signals between the devices which supports copy protection technologies of DTLA. It is impossible to dub to other tapes the program which only one recording is permitted.

When connecting to other devices, only the operation of the devices which supports DTLA is guaranteed. The operation of non-DTLA-supported devices is not guaranteed.











#### Make connections

#### A Connection with the camcorder

Connect a DV cable between the camcorder's DV connector and your VCR's DV IN connector.

#### **B** Connection with the VCR

Connect an i.LINK cable between the playback VCR's i.LINK input/output connector and the recording VCR's i.LINK input/output connector.

#### NOTES:

- Depending on the devices equipped with the i.LINK connector which is connected to the VCR, picture noise on this VCR may differ from the noise on the connected devices. It is caused by the difference of the data processing method.
- Connection with certain product(s) may not be supported. ( "ATTENTION" on the back cover.)



#### Load a cassette

Insert the cassette to be recorded on into this VCR (for recording).



#### Select input location on this VCR

On the front panel:

Press CHANNEL +/- to select "I-1 etc.".

On the Remote:

Press TV/VCR CH +/- to select "I-1 etc.".



#### Set recording speed

Press  $\boldsymbol{REC}$   $\boldsymbol{SPEED}$  to set the recording speed.

• For more details, refer to "About Recording Speed" below.



#### Start playback

Press **PLAY** ( ▶ ) on the connected device.

#### NOTE:

If the connected device is equipped with a superimpose/OSD disable feature then set it to "OFF" before starting playback.



#### Start recording

On the front panel:

Press **REC** ( • ).

On the Remote:

Press **REC** ( $\bullet$ ) and **PLAY** ( $\triangleright$ ) at the same time.

#### NOTE:

If "108 REC BY HS MODE" appears on the TV screen, refer to "Error Codes and Messages" on page 77.

Do not connect this VCR to the PC with the i.LINK cable. The operation is not guaranteed.



Input Source (Playback device)		Selectable Recording Speed (Recording device: This VCR)	
	D-VHS	Auto (HS/STD/LS3/LS5)*, HS, STD, LS3, LS5	
i.Link/ DV input	DV camcorder	HS, STD, LS3, LS5	
	Others	Auto (HS/STD)*, HS	

<sup>\*</sup> Auto mode: The recording speed will be selected automatically according to the amount of data input (the transfer rate) from the i.LINK connector.

- When dubbing using the i.LINK connector, set the recording speed on the recording VCR to the same speed as the source tape on the playback VCR.
- When "AUTO" is selected for the recording speed, "AUTO" and the selected speed appear on the front display panel in turn.



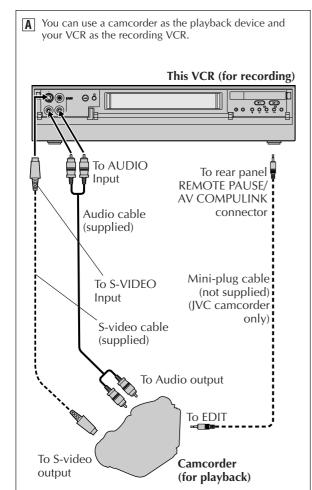


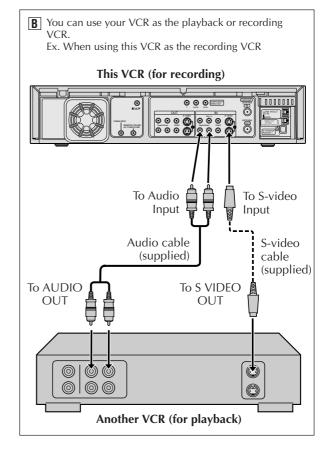
# S-VIDEO/ VIDEO Connections

#### Various connection for editing tapes

The following three methods can be used for editing tapes.

- VHS to S-VHS editing (VIDEO-VIDEO connection):
   Although the picture quality is inherently limited by the original VHS quality, the edited tape has better picture quality than those made by VHS-to-VHS editing.
- S-VHS to VHS editing (VIDEO-VIDEO connection): Since the original source is recorded in S-VHS mode, the edited tape has better picture quality than those made by VHS-to-VHS editing.
- S-VHS to S-VHS editing (S-VIDEO connection): Original picture quality of S-VHS made can be duplicated with minimal picture degradation. This is the best editing method you can use on S-VHS VCRs.





#### **Make connections**

#### A Connection with the camcorder

Connect an audio/S-video cable between the camcorder's audio/S-video output connectors and your VCR's audio/S-video input connectors.

- When the JVC camcorder is equipped with the Master Edit Control, you can control the VCR from the camcorder. Connect the mini-plug cable (not supplied with this VCR) as illustrated on the left.
- When using a camcorder with a monaural output, connect the audio output connector on the camcorder to the left audio input connector on this VCR.

#### NOTE:

If the camcorder does not have S-video output connector, use a video cable.





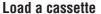
#### **B** Connection with the VCR

Connect an audio/S-video cable between the playback VCR's audio/S-video output connectors and the recording VCR's audio/S-video input connectors.

 When using this VCR as the recording VCR, connect this VCR's audio/S-video input connectors to the audio/S-video output connectors on the other VCR.
 If the playback VCR is monaural, connect the audio output connector on the playback VCR to the left audio input connector on this VCR.

#### NOTE:

If another VCR does not have S-video input/output connectors, use a video cable.



Insert the cassette to be recorded on into this VCR (for recording).

#### Select input location on this VCR

L-1 or L-2 — when connecting the device to the audio/video or audio/S-video input connectors on the rear panel.

F-1 — when connecting the device to the audio/video or audio/S-video input connectors on the front panel.

#### On the front panel:

Press CHANNEL +/-.

#### On the Remote:

Press the **Number** key "0 (AUX)" or TV/VCR CH +/-.

#### **NOTES:**

- When using this VCR as the recording VCR, set the video input terminal setting correctly ( pp. 56).
- When using this VCR as the playback VCR for editing, set "DIGITAL R3" to "OFF" ( pg. 54).

#### Set recording speed

Press **REC SPEED** to set the tape speed.

Input Source (Playback device)		<b>Selectable Recording Speed</b> (Recording device: This VCR)	
Analog input	D-VHS	HS, STD, LS3, LS5	
	S-VHS/VHS	SP, EP	

# Se

#### Select video input terminal

Access the "IN/OUT FUNCTION" screen (F) pg. 56).

When using S VIDEO terminal, set "FRONT AUX F-1" (or "REAR AUX L-1 (or L-2)" if you use the connectors on the rear) to "S-VIDEO".

When using VIDEO terminal, set "FRONT AUX F-1" (or "REAR AUX L-1 (or L-2)" if you use the connectors on the rear) to "VIDEO".



#### Set "PICTURE CONTROL" to "EDIT"

Access the "VIDEO FUNCTION" screen (F) pg. 54).



#### Start playback

Press **PLAY** ( ▶ ) on the connected device.

#### NOTE:

If the connected device is equipped with a superimpose/OSD disable feature then set it to "OFF" before starting playback.



#### Start recording

On the front panel:

Press **REC** ( ● ).

On the Remote:

Press **REC** ( ullet ) and **PLAY** (  $\blacktriangleright$  ) at the same time.

# To use a Master Edit Control-equipped JVC camcorder

- 1 Access the "ADDITIONAL" screen (□ pg. 57), then set "AV COMPU-LINK" to "OFF" after performing step ■.
  - The REMOTE PAUSE/AV COMPULINK connector works as a Remote Pause connector when "AV COMPU-LINK" is set to "OFF".
  - For details, refer to the camcorder's instruction manual
- 2 Engage the VCR's recording pause mode.

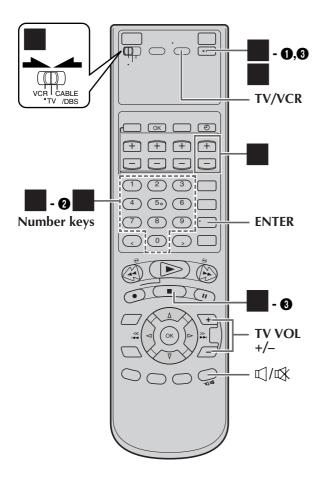
- Be sure to select "AUTO" for "PICTURE CONTROL" (or "NORM" when "V. CALIBRATION" is set to "OFF") after you finish dubbing the tapes ( pg. 54).
- It is impossible to perform dubbing properly only with an audio cable. Connect also the video or S-video cable.





#### **MULTI-BRAND REMOTE CONTROL**

# TV Brand Setting



When programed (set) with a manufacturer's (brand's) code, this Remote can perform some of the remote control functions of the listed TVs. You can control a JVC TV without setting a brand code.

#### Turn on the TV

Turn on the TV using the Power button on the TV or its Remote.



#### Set remote operation mode

Set the VCR/TV/CABLE/DBS selector to "TV".



#### Set TV brand code

Follow the example shown below.

- 1 Press and hold POWER.
- 2 Press the **Number** keys to enter your TV's brand code by referring to the table below.
- **3** Press **STOP** (■), and release **POWER**.
- Once you have set the Remote to operate a TV, you do not have to set it again until you replace the Remote's batteries.
- JVC and PANASONIC have two codes. If the TV does not function with one code, try entering the other.



#### Operate TV

Press one of the following buttons: **POWER**, **TV/VCR**, **TV/VCR** CH +/-, (TV Muting), **TV VOL** +/-, and **Number** keys.

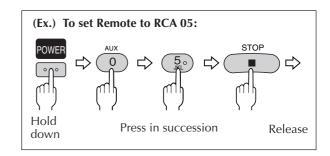
- For some brands, you must press ENTER after having pressed the Number keys to enter a channel number.
- To operate the VCR, set the VCR/TV/CABLE/ DBS selector back to "VCR".

#### **NOTES:**

- Depending on the type of TV, some or all functions cannot be operated using this Remote.
- It is impossible to control a TV that does not have a remote sensor.

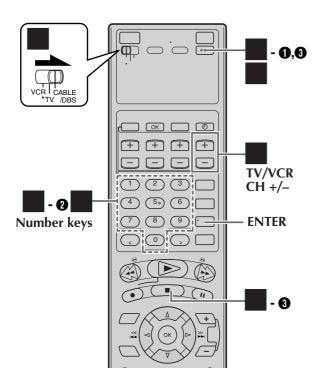
TV BRAND NAME	BRAND CODE
JVC	01, 03
HITACHI	10
MAGNAVOX	02
MITSUBISHI	03
PANASONIC	04, 11
RCA	05
SHARP	06
SONY	07
SAMSUNG	12
SANYO	13
SEARS	13
TOSHIBA	08
ZENITH	09

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# Cable Box Brand Setting



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

When programed (set) with a manufacturer's (brand's) code, this Remote can perform some of the remote control functions of the listed cable boxes. If your cable box does not function with a specified code, try other codes

#### Turn on the cable box

Turn on the cable box using the Power button on the cable box or its Remote.



#### Set remote operation mode

Set the **VCR/TV/CABLE/DBS** selector to "CABLE/DBS".



#### Enter cable box brand code

Follow the example shown below.

- Press and hold **POWER**.
- Press the Number keys to enter your cable box's brand code by referring to the table helow
- **③** Press **STOP** (■), and release **POWER**.
- Once you have set the Remote to operate a cable box, you do not have to set it again until you replace the Remote's batteries.

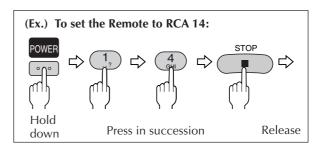


#### Operate cable box

Press one of the following buttons: **POWER**, **TV/VCR CH +/-**, and **Number** keys.

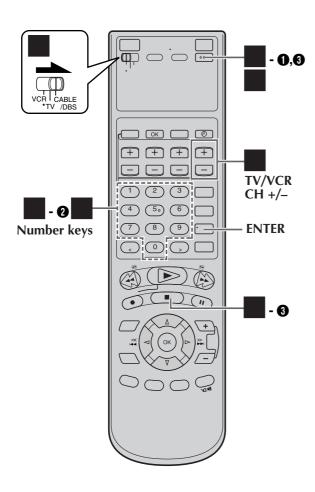
- For some brands, you must press ENTER after having pressed the Number keys to enter a channel number.
- To change the cable box's channels, press **TV/VCR CH +/-** or the **Number** keys.
- To operate the VCR, set the VCR/TV/CABLE/ DBS selector back to "VCR".

- Depending on the type of cable box, some or all functions cannot be operated using this Remote.
- It is impossible to control a cable box that does not have a remote sensor.
- It's not possible to set the Remote for both your cable box and a DBS receiver at the same time. You can only set the Remote to operate one of these units at a time.





# DBS Receiver Brand Setting



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

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When programed (set) with a manufacturer's (brand's) code, this Remote can perform some of the remote control functions of the listed DBS (Direct Broadcast Satellite) receivers.

#### Turn on the DBS receiver

Turn on the DBS receiver using the Power button on the DBS receiver or its Remote.



#### Set remote operation mode

Set the **VCR/TV/CABLE/DBS** selector to "CABLE/DBS".



#### **Enter DBS receiver brand code**

Follow the example shown below.

- 1 Press and hold POWER.
- Press the Number keys to enter your DBS receiver's brand code by referring to the table below.
- **③** Press **STOP** (■), and release **POWER**.
- Once you have set the Remote to operate a DBS receiver, you do not have to set it again until you replace the Remote's batteries.

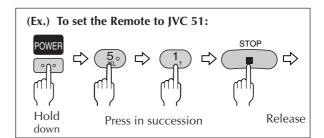


#### **Operate DBS receiver**

Press one of the following buttons: **POWER**, **TV/VCR CH +/-**, and **Number** keys.

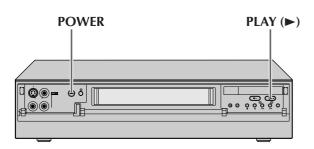
- For some brands, you must press ENTER after having pressed the Number keys to enter a channel number.
- To change the DBS receiver's channels, press
   TV/VCR CH +/- or the Number keys.
- To operate the VCR, set the VCR/TV/CABLE/ DBS selector back to "VCR".

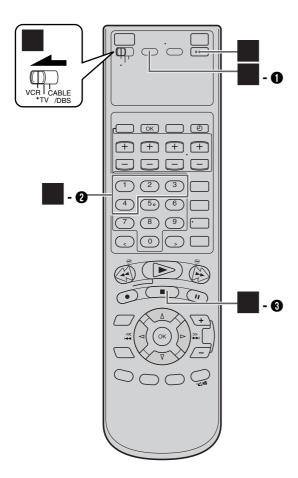
- Depending on the type of DBS receiver, some or all functions cannot be operated using this Remote.
- It is impossible to control a DBS receiver that does not have a remote sensor.
- It's not possible to set the Remote for both your DBS receiver and a cable box at the same time. You can only set the Remote to operate one of these units at a time.





# Changing **Remote Control** Code





#### NOTF:

When "POWER SAVE" is set to "ON", you can not change the remote control code. Before changing the code, set "POWER SAVE" to "OFF" (12 pg. 57).

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The Remote is capable of controlling four JVC video recorders independently. Each of VCRs can respond to one of four codes (A, B, C or D).

This Remote control is preset to send A code signals because your VCR is initially set to respond to A code signals. You can easily change your Remote and the VCR to send and respond to B, C or D code signals. When using four JVC VCRs, set four VCRs and their Remotes to different codes, so that the Remotes can operate these VCRs separately.

### Set remote operation mode

Set the VCR/TV/CABLE/DBS selector to "VCR".

#### Set remote control code for Remote

- 1 Press and hold A/B/C/D.
- 2 Press the **Number** key "1" for A code control signals, "2" for B code control signals, "3" for C code control signals, "4" for D code control signals.
- **3** Press **STOP** (■), and release **A/B/C/D**.

#### **Turn off VCR**

Press **POWER** on the VCR.

# Check remote control code for VCR

Press **PLAY** (►) on the VCR for more than 5 seconds.

• The code currently set appears on the front display panel.

#### Turn on VCR

Press **POWER** on the Remote.

- The code transmitted from the Remote blinks for a few seconds on the front display panel.
- After the code disappears on the front display panel, make sure that the VCR is turned on by pressing **POWER** on the Remote.

#### To control four VCRs with the same Remote

You can control four JVC VCRs by switching the remote control code for the Remote between A, B, C and D (☞ step ■), keeping four VCRs to different control codes.

• Press the Number key "1" for A code control signals, "2" for B code control signals, "3" for C code control signals, "4" for D code control signals. (To change only the remote control code for the Remote, DO NOT perform steps **to .**)

# (Ex.) To set Remote to B code:

Hold down Press in succession







POWER		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
1. The power will not come on.	• The AC power cord is disconnected.	Connect the AC power cord.
The clock works, but the VCR's power will not come on.	● The VCR is in the timer recording standby mode with "AUTO TIMER" set to "OFF" (□ pg. 57).	Press <b>TIMER</b> (②) to disengage.
3. The Remote will not function.	● The batteries are discharged.	Replace the dead batteries with new ones.
TAPE TRANSPORT		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
The cassette gets stuck partway during loading, and is ejected.	• The cassette was inserted incorrectly.	Make sure the cassette's window is facing up, the rear label side is facing you and the arrow on the front of the cassette is pointing towards the VCR. Then insert the cassette.
PLAYBACK		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
The tape is running but the picture will not appear.	The TV receiver is set to the wrong mode.	Select the AV mode on the TV.
Breaks are noticeable in Hi-Fi sound track.	Automatic tracking is engaged.	Disengage auto tracking and adjust the tracking manually (127 pg. 23).
<ol> <li>The playback picture is blurred or interrupted, even though TV broadcasts are clear.</li> </ol>	• The video heads may be dirty.	The heads must be cleaned. Use an optional dry cleaning cassette, or consult your JVC dealer.
The picture stops, or the black or mosaic noise appears when playing back a program recorded in D-VHS mode.	<ul><li>The video heads may be dirty.</li><li>The digital program is not recorded in D-VHS mode.</li></ul>	The heads must be cleaned. Use an optional dry cleaning cassette, or consult your JVC dealer. To record in the D-VHS mode, use a D-VHS cassette.
5. The Hi-Fi sound cannot be heard.	Audio Monitor setting is incorrect.	Set Audio Monitor to "□LR□" (□ pg. 23).
6. The D-VHS indicator does not light up when playing back a D-VHS cassette.	The program is not recorded in D-VHS mode.	To record the program in D-VHS mode, press <b>D-VHS</b> so that the D-VHS indicator lights up, then perform the recording ( <b>IF</b> pg. 26).
7. The mosaic noise appears when receiving the scenes with fast action or switching the display.	<ul> <li>This occurs when receiving the program with the low transfer rate.</li> </ul>	This noise already appears in the broadcast station, and this is not a malfunction of your VCR.









RECORDING		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
Recording will not start, and     "CASS" blinks on the front display     panel for about 5 seconds.	<ul> <li>There is no cassette loaded.</li> <li>The loaded cassette has had its record safety tab removed.</li> </ul>	Insert a cassette. Remove the cassette and cover the hole with adhesive tape, or load a cassette on which the record safety tab is intact.
TV broadcasts will not be recorded properly.	<ul> <li>The VCR has been set to "L-1", "L-2", "F-1" or "I-1 etc." input location by mistake.</li> </ul>	Select the appropriate channel on the VCR.
3. Tape-to-tape editing will not work.	<ul> <li>The components have been incorrectly connected, or correct video connector (S VIDEO, VIDEO or DV) is not selected.</li> <li>The power to one or more of the units has not been turned on.</li> <li>The recording VCR's input location has been set incorrectly.</li> </ul>	Connect the components correctly (Fig. 9g. 64, 66) or check "REAR AUX L-1 (or L-2)" and "FRONT AUX F-1" setting (Fig. 9g. 56). Make sure the power to all units is on.  Select the appropriate input location on the recording VCR.
TIMER RECORDING		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
1. Timer recording will not work.	<ul> <li>The clock and/or the timer have been set incorrectly.</li> <li>The timer is not engaged.</li> <li>The VCR has not been set up properly.</li> </ul>	Press <b>TIMER</b> (②) and check to make sure that ② appears on the front display panel.  Re-perform the set-up procedures.  Make sure you have compensated for guide channel and VCR or cable box channel number mismatches  (IF pg. 36).
2. Timer programing will not work.	• Timer recording is in progress.	Timer programing cannot be performed when timer recording is in progress. Wait until it finishes.
3. "CASS" blinks on the front display panel.	The timer is engaged but there is no cassette loaded.	Load a cassette with the record safety tab intact, or with the hole covered with adhesive tape.
<ol> <li>The cassette stops automatically, and ⊙, ○ and ▷ on the front display panel will not stop blinking.</li> </ol>	<ul> <li>The loaded cassette has had its record safety tab removed.</li> <li>The tape reaches its end during timer recording.</li> </ul>	Remove the cassette and cover its hole with adhesive tape, or replace it with a cassette on which the safety tab is intact.  The program may not have been recorded in its entirety. Next time be sure you have enough time on the tape to record the entire broadcast.
5. ⊕ blinks for 10 seconds and the timer mode is disengaged.	<ul> <li>TIMER (②) has been pressed when there are no programs in memory, or the timer recording program has not been set correctly.</li> </ul>	Check the programed data and set again if necessary, then press <b>TIMER</b> (色) again.
Cable channels are not automatically switched during timer recording.	<ul> <li>The Controller is not properly connected to the VCR.</li> <li>The input channel selected on the Cable Set Up screen is incorrect.</li> <li>The cable box is turned off.</li> </ul>	Connect the Controller correctly ( pg. 15).  After confirming your cable box's input channel number, re-access the Cable Set Up screen and select the correct number ( pg. 16).  Make sure the power is on before timer recording starts.

CONTINUED ON NEXT PAGE →







TIMER RECORDING		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
Satellite channels are not     automatically switched during timer     recording.	<ul> <li>The Controller is not properly connected to the VCR.</li> <li>The input channel selected on the DBS Receiver Set screen is incorrect.</li> <li>The VCR is not set correctly to control the DBS receiver.</li> <li>The DBS receiver is turned off.</li> </ul>	Connect the Controller correctly (F) pg. 18).  After confirming your DBS receiver's input channel number, re-access the DBS Receiver Set screen and select the correct number (F) pg. 19). Set the correct DBS receiver brand code (F) pg. 20).  Make sure the power is on before timer recording starts.
Timer recording begins as scheduled, but the channel is always incorrect.	<ul> <li>Even though you do not use an external cable box or DBS receiver, on the Cable Set Up screen or DBS Receiver Set screen, "INPUT CH" is set to "ON".</li> </ul>	Set "INPUT CH" to "OFF" (CF) pg. 16, 19).
9. You moved, and now VCR Plus+ system does not work properly.	<ul> <li>The receivable stations in the new area are received on different channels than those in the previous area.</li> </ul>	Re-perform the Changing VCR Plus+ Setting procedure (F) pg. 36).
10."PROGRAM FULL" is displayed on the screen.	<ul> <li>All 24 programs of the VCR's timer memory are used.</li> </ul>	Wait until a space in memory clears, or cancel unnecessary program information ( pg. 40).









VIDEO NAVIGATION			
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION	
Tape information screen does not appear for the currently inserted tape.	The current tape inserted has not been recorded on this VCR.	Tape information cannot be shown if it has not been recorded on this VCR.	
2. The VCR cannot search for the desired program.	<ul> <li>Two (or more) tape numbers are recorded on one tape.</li> <li>The inserted program is not recorded on this VCR.</li> </ul>	Video Navigation cannot work correctly on a tape if it has more than one tape number. If this happens, fast-forward the tape up to its end, eject it, and try it again. It is impossible to search the desired program which is not recorded on this VCR using Video Navigation.	
"MEMORY FULL" appears on the screen when you try to start recording.	The VCR's memory for Video Navigation is fully recorded.	Check the remaining memory (\$\mathscr{L}^{\sigma}\$ pg. 52). If it is full, delete unnecessary Video Navigation information (\$\mathscr{L}^{\sigma}\$ pg. 51, 52).	
4. The information data for Video Navigation is not registered.	<ul> <li>The VCR's memory for Video Navigation is fully recorded.</li> <li>"NAVIGATION" is set to "OFF".</li> <li>The recording time is not enough.</li> </ul>	Check the remaining memory (IF) pg. 52). If it is full, delete unnecessary Video Navigation information (IF) pg. 51, 52). Set "NAVIGATION" to "ON" (IF) pg. 43). For details on the recording time for Video Navigation, refer to "NOTES" on page 42.	

## CONTINUED ON NEXT PAGE →







OTHER PROBLEMS		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
When scanning channels, some of them are skipped over.	<ul> <li>Those channels have been preset to be skipped.</li> </ul>	If you need the skipped channels, restore them (F) pg. 14).
2. The channel cannot be changed.	• Recording is in progress.	Press PAUSE ( II ) to pause the recording, change channels, then press PLAY ( ▶ ) to resume recording.
The Remote will not operate your     TV or cable box or DBS receiver.	The brand codes are set incorrectly.	Reset the correct brand codes ( $\square$ pg. $68 - 70$ ).
4. 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 ( pg. 11), or perform Manual Clock Set ( pg. 12).
5. "PM" blinks on the front display panel.	The VCR do not work properly.	Unplug the AC power plug once, then plug it again.
6. The subtitles and the menu screen are overlapped.	• The subtitle display on the TV is set to on.	Set it to off.

#### **MOISTURE CONDENSATION**

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

#### **ABOUT HEAD CLEANING**

Accumulation of dirt and other particles on the video heads may cause the playback picture to become blurred or interrupted. Be sure to contact your nearest JVC dealer if such troubles occur.

#### **ATTENTION**

This VCR contains microcomputers. External electronic noise or interference can cause microcomputer to malfunction. If the VCR does not operate correctly switch its power off and unplug the AC power cord from the AC supply. Wait for a while and then plug the power back in. Eject and check the condition of the cassette. If everything appears normal, you can operate the VCR as usual.







The following conditions are product features and do not indicate mechanical problems.

#### Playback of tapes recorded in D-VHS mode

- You may see a mosaic (block) noise, grayed images, or a still image in cases of excessive distortion caused when playing back a damaged tape or when the heads are momentarily dirty.
- It takes a moment after you press PLAY (►) until the image appears and sound is heard.
- It takes a moment after you switch playback speeds (when switching from special effect playback to normal playback, for example) until the image appears and sound is heard. For a few seconds, the image may be played back out of synch with the sound.

#### Searching images on D-VHS tapes

- The images appear frame by frame.
- Block noise may appears on the bottom half of images.
- When the blank portion is reached, a still scene of the last recorded image is displayed.

#### The picture stops/There is no sound

When two or more devices are connected to this VCR with the i.LINK cable (a camcorder and another i.LINK-compatible device), do not turn on the camcorder if you record a program from an another i.Link-compatible device. Turning on and off the camcorder may cause momentary still images and loss of sound.

#### Image or sound is distorted

 When recording from a camcorder connected to this VCR with the i.LINK cable, the image or sound may be distorted. If this occurs, insert a D-VHS cassette in the VCR and turn off and on the VCR, then start recording again. If the problem is not fixed, record using the audio/video input connectors instead of i.LINK connector.

# Recording from camcorders and other devices via i.LINK connector

- You may see a mosaic (block) noise.
- For scenes with fast action, the image may jitter. This does not affect recording, which will proceed as usual.
- When you watch the camcorder's, search images through this VCR, the block noise may appear.
- When you record audio-dubbed DVC cassettes (tapes which have four recorded channels), sound may not be heard for the first few seconds.
- When you eject and insert D-VHS cassettes, the sound may be interrupted for an instant.
- When you press REC SPEED to switch recording speed, the sound may be interrupted for an instant.

#### Incorrect image formatting for wide TVs

• If you have connected two different devices using the S-video output connectors on the back of the VCR, the sensing signal for wide TVs may not be output correctly depending on the connected devices. If this occurs, use the TV controls to switch the screen size.







# **Error Codes and Messages**

Some error codes and messages may appear on the TV screen when operating the VCR. Refer to the chart below for the solution.

CODE	MESSAGE	DESCRIPTION
102	REC PROHIBITED	<ul> <li>An attempt was made to make a D-VHS recording of a program for which only the analog information is copy protected.</li> <li>While making a D-VHS recording of a program, a signal in which only the analog information is copy protected was input to this VCR.</li> </ul>
103	REC PROHIBITED	<ul> <li>An attempt was made to dub a D-VHS recording of a digitally copy protected program.</li> <li>While dubbing a D-VHS recording, digitally copy protected information was input to this VCR.</li> <li>This VCR supports copy protection technologies such as DTLA, and cannot record programs that employ digital copy protection.</li> </ul>
104	CAN NOT DECODE VIDEO OR AUDIO USE SET TOP BOX OR HDTV TUNER	<ul> <li>A signal that is not compatible with this VCR was input.</li> <li>Switch to the analog input for recording. (It may be possible to play back the material if using a digital tuner*, etc.)</li> </ul>
105	CAN NOT REC DIGITAL INPUT BY S-VHS/VHS CHOOSE ANALOG INPUT	<ul> <li>An attempt was made to make an S-VHS/VHS recording of a signal from an i.LINK device other than a digital tuner*.</li> <li>The i.LINK connector on this VCR is intended only for D-VHS recording. This VCR does not convert a digital signal into an analog signal for recording. Switch to the analog input for recording.</li> </ul>
107	CAN NOT REC DIGITAL INPUT BY S-VHS/VHS USE ANALOG TIMER PROGRAMMING	<ul> <li>An attempt was made to make an S-VHS/VHS recording using the timer function with "i.LINK" selected on the digital tuner* side.</li> <li>The i.LINK connector on this VCR is intended only for D-VHS recording. This VCR does not convert a digital signal into an analog signal for recording. Also, it is not possible to make a D-VHS recording on VHS tape. Switch to the analog input for recording.</li> </ul>
108	REC BY HS MODE	When 720p, 1080i signals are recorded in STD/LS3/LS5 mode, select HS mode to record program properly.
200	CAN NOT DECODE VIDEO OR AUDIO USE SET TOP BOX OR HDTV TUNER	<ul> <li>An attempt was made to play back a signal that is not supported by this VCR.</li> <li>To play back the signal, use the digital tuner*, etc., that was used to record the signal.</li> </ul>
201	WAIT A MINUTE CALIBRATING	<ul> <li>Normal playback is being prevented by mosaic noise, etc.</li> <li>Wait while the VCR calibrates itself so that it can output a normal image.</li> </ul>
202	COPY RESTRICTED PROG OUTPUT 480i VIDEO	When playing back a program that was copy protected in 1080i, 720p, or 480p mode, the VCR down-converts to 480i mode for output
203	COPY RESTRICTED PROG CAN NOT PLAY BACK	<ul> <li>An attempt was made to play back a tape containing a copy protected program.</li> <li>Even if you record a copy protected program, this VCR cannot play it back.</li> </ul>
205	CAN NOT PLAY BACK THIS TAPE	An attempt was made to play back a tape containing an invalid D-VHS recording.
300	CAN NOT DECODE VIDEO OR AUDIO USE SET TOP BOX OR HDTV TUNER	<ul> <li>A signal format that is not supported by this VCR was input.</li> <li>Use a digital tuner*, etc.</li> </ul>
301	TOO MANY I.LINK INSTRUMENTS READ INST.BOOK	<ul> <li>A signal containing too much data was input to the i.LINK connector on this VCR.</li> <li>There are too many devices with i.LINK connectors, such as digital tuners and digital video cameras, connected to the i.LINK connector on this VCR. Turn off any devices that are not in use.</li> </ul>
302	COPY RESTRICTED PROG OUTPUT 480i VIDEO	When playing back a program that was copy protected in 1080i, 720p, or 480p mode, the VCR down-converts to 480i mode for output.

st For details of a digital tuner, refer to the instruction manual of the digital tuner.







# **Questions and answers**

#### **PLAYBACK**

- Q. What happens if the tape reaches its end during playback or search?
- **A.** The VCR automatically rewinds it to the beginning.
- Q. Can the VCR indefinitely remain in still mode?
- **A.** No. It stops automatically after 5 minutes to protect the heads.
- Q. During picture search, still picture playback and frame-by-frame playback, the picture is intermittent. What's the cause?
- A. Picture loss occurs when these types of playback are attempted with a tape recorded in LP mode. Pressing PLAY ( > ) to return to normal playback will restore the picture.
- Q. When returning from variable-speed picture search to normal playback, the picture is disturbed. Should I be concerned about this?

- A. No, it is normal.
- Q. When playing back programs that have been timerrecorded consecutively (such one program from 8:00 to 9:00 and another one from 9:00 to 10:00), the picture and sound become momentarily distorted where the first program ends and the second program begins. Is this a malfunction?
- **A.** No. This is normal.
- Q. Other than preventing further recording, what effect does removing the safety tab have?
- A. It disables marking of index codes and tape numbers for Video Navigation.
- Q. Sometimes, during index search, the VCR cannot find the program I want to see. Why not?
- **A.** There may be index codes too close together.
- Q. During playback, on-screen display sometimes jitters. Why does this happen?
- **A.** If the condition of the tape being played back is not good, jittering of the video (including on-screen display) may occur.

#### **RECORDING**

- Q. When I pause and then resume a recording, the end of the recording before the pause is overlapped by the new recording. Why does this happen?
- **A.** This is normal. It reduces distortion at the pause and resume points.
- Q. Can the VCR indefinitely remain in the recording pause mode?
- A. No. The VCR automatically stops after 5 minutes to protect the heads. When paused during Instant Timer Recording (ITR), the VCR shuts off automatically after 5 minutes.
- Q. What happens if the tape reaches its end during recording?
- **A.** The VCR stops, then "○" and "▷" blink on the front display panel.

#### TIMER RECORDING

- Q. " $\bigcirc$ " and " $\bigcirc$ " remain lit on the front display panel. Is there a problem?
- **A.** No. This is a normal condition for a timer recording in progress.
- Q. Can I program the timer while I'm watching a tape or a TV broadcast?
- **A.** Yes, but while you are setting the timer you will not see the tape's or broadcast program's picture as it is replaced by the on-screen menu. (The sound from the tape or broadcast program will be heard during the timer setting.)



# Glossary

#### **Digital Broadcasts and D-VHS**

Great changes in the entertainment and media industries are transforming the way we use VHS, and digital broadcasting is a good example of what the future holds. Digital broadcasting now allows more efficient use of the limited broadcast spectrum besides delivering high-definition video, outstanding sound quality, multiple channels, and multiple features.

Meanwhile, VHS has evolved with the advances in broadcasting in response to the need for continued use of existing VHS resources and the trend toward digital broadcasts.

Digital broadcasting is not limited to transmissions of audio and video content. A variety of other data can be sent as well. As the means to record all of these digital signals while supporting playback of the extensive VHS library of analog tapes, D-VHS was developed. This VCR is equipped with an MPEG-2 encoder and decoder (codec) for digital recording and playback of analog signals.

D-VHS is the key to a smooth transition from analog to digital formats. This next-generation home video technology lets us continue to enjoy home video entertainment as popularized in the last century well into the next.

#### **Linear PCM Audio**

Conventional D-VHS recording uses MPEG-1 Layer 2 compression to record analog audio digitally. For recording without compression, this VCR also features PCM recording (pulse code modulation: 48 kHz, 16-bit, 1536 kbps).

Used with high-resolution HS/STD mode, it offers outstanding high-fidelity recording and playback. (Recording from audio input alone is not supported.)

#### **Dolby Digital**

A form of digital audio coding developed by Dolby Laboratories to deliver surround sound with 5.1 channels (front left and right, center, rear left and right, and a channel for LFE (low-frequency effects). When you play back a digital tape encoded in Dolby Digital format, the Dolby Digital bistream is sent from the DIGITAL OUT OPTICAL connector.

Set "OPTICAL OUT" to "Dolby D" ( pg. 55).

Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic", and the double-D symbol are trademarks of Dolby Laboratories. Confidential unpublished works. Copyright 1992-1997 Dolby Laboratories. All rights reserved.

#### i.LINK

"i.LINK" is a digital serial interface that allows devices equipped with an i.LINK connector to exchange digital video signals, digital audio signals, and device control signals bi-directionally over a single cable.

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

#### MPEG2

Abbreviation for Moving Picture Experts Group, Phase 2. Unlike previous compression methods, MPEG-2 uses an extremely efficient compression method that supports high-definition video. Based on the principle that much video data remains unchanged from one frame to the next, predictive coding is performed to eliminate redundant data.

Specifically, compression is applied between frames (based on the correlation of frame data) and within frames (based on DCT, or discrete cosine transform) for an extremely efficient compression technique.







## List of terms

This guide serves as a quick way to locate frequently used terms and on-screen display names.

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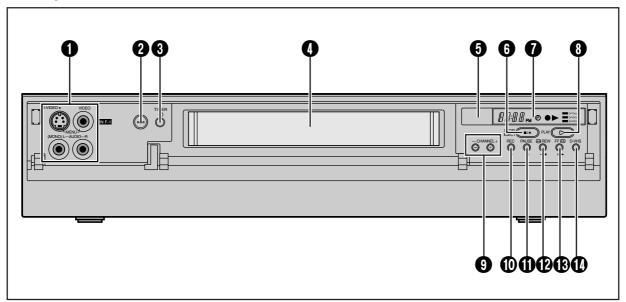




**82** EN

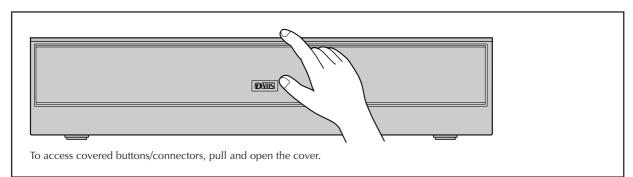
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# **Front panel**



- **1** S-VIDEO/VIDEO/AUDIO input connectors (F-1) : □ pg. 66
- 2 POWER button: ☐ pg. 21, 27
- **3** TIMER **②** button : □ pg. 35, 39, 40
- Cassette loading slot
- **5** Remote sensor
- **6** STOP/EJECT ( **■**/**△** ) button : □ pg. 21, 27
- 7 Front display panel: F pg. 84

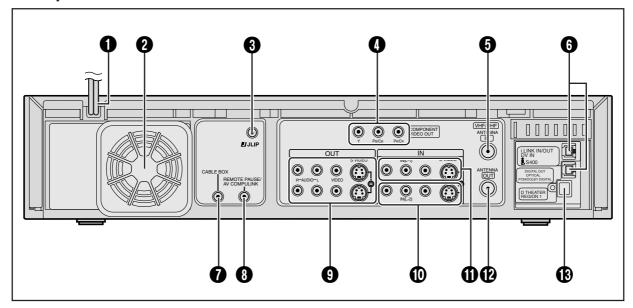
- **8** PLAY ( ▶ ) button : 🖙 pg. 21
- **9** CHANNEL + and buttons : ☐ pg. 23, 26, 27
- **⑩** REC ( ) button : 🖙 pg. 26, 27
- **①** PAUSE ( **■** ) button: **□** pg. 27, 32
- **②** REW ( **◄ ◄** ) button : □ pg. 21, 31
- **13** FF ( ▶▶ **▶** ) button : □ pg. 21, 31
- **1** D-VHS button: ☐ pg. 27







# Rear panel



- **1** AC power cord : □ pg. 7
- 2 Cooling fan
  - This prevents the temperature from rising inside the VCR. Do not remove it.
  - Install the VCR so as not to block the area around the cooling fan.
- **3** JLIP terminal : □ pg. 63
- Component video output connectors : □ pg. 8
- **⑤** ANTENNA IN terminal : □ pg. 7
- (i.Link\*): g pg. 64
  - \*i.Link refers to the IEEE1394-1995 industry specification and extensions thereof. The logo is used for products compliant with the i.Link standard.

- **②** CABLE BOX Controller connector : 
  ☐ pg. 15, 18
- **8** REMOTE PAUSE/AV COMPULINK terminal
  - REMOTE PAUSE terminal: ☐ pg. 67
  - AV COMPULINK terminal: ☐ pg. 58
- **9** S VIDEO/AUDIO/VIDEO OUT connectors : 
  ☐ pg. 7, 8, 66

- 1 DIGITAL OUT OPTICAL terminal: pg. 55

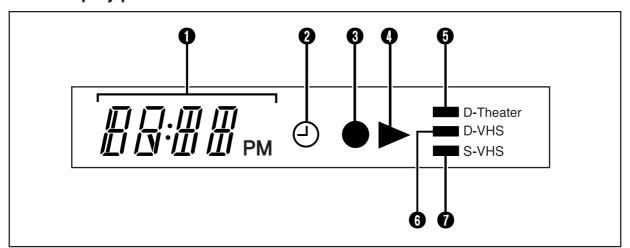






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# Front display panel



**1** Channel and auxiliary input ("L-1", "L-2", "F-1" and "I-1" etc.)

Clock time: Fpg. 28

2 Timer mode indicator: pg. 35, 39
3 Record mode indicator: pg. 26 – 28
4 Play mode indicator: pg. 21, 22

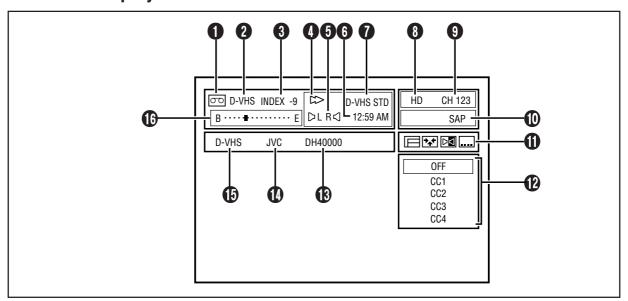
**6** D-Theater indicator : □ pg. 25 **6** D-VHS indicator : □ pg. 26, 27 **7** S-VHS indicator : □ pg. 58, 59







# **On-screen display**



- Cassette indication
- 2 Cassette type indication: F pg. 26
- 3 Index no. indication: ☐ pg. 24
- **4** VCR operation mode indication
- **⑤** Audio monitor indications : □ pg. 23
- 6 Clock time

Time counter\*

Tape remaining time (When "REMAIN" appears)\*\*

- \* To reset the time counter, press **C. RESET** on the Remote. The counter reading becomes "0:00:00". It is also reset when a tape is inserted.
- \*\* The tape remaining time is calculated based on the recording speed being used. The indicated remaining time is only an estimate.
- Recording mode indication : □ pg. 26, 27
   Recording speed indication
- Image format (HD/SD)
- Channel and auxiliary input ("L-1", "L-2", "F-1" and "I-1" etc.)
- Audio Indications

STEREO	When receiving the stereo broadcast
SAP	When receiving SAP (Second Audio Program) broadcast
SAP STEREO	When receiving stereo and SAP broadcast
Dolby D	When playing back and receiving a Dolby Digital signals

STREAM	When playing back and receiving a audio signals in other new formats
PCM	When playing back and receiving a PCM audio signals
AUDIO 1 AUDIO 2 1+2 MIX	Depends on the "DV AUDIO REC" setting ( pg.55)

- **1** Icons : □ pg. 25
  - : appears when a D-VHS cassette contains the multiple programs
  - : appears when a D-VHS cassette contains the multiple angle
  - : appears when a D-VHS cassette contains the audio in multiple language
  - : appears when a D-VHS cassette contains the subtitle in multiple language

#### NOTE:

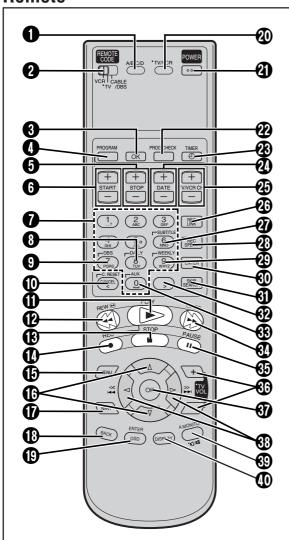
The subtitles does not appear while the on-screen display is displayed.

- (1) Selections of the selected icon (1)
- Model name of the device connected to the i.LINK connector
- **(1)** Brand name of the device connected to the i.LINK connector
- Type of device connected to the i.LINK connector
- **16** Tape position indicator : □ pg. 22





# Remote



#### How to use the Remote

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

The Remote can operate most of your VCR's functions, as well as basic functions of TV sets, cable boxes and DBS receivers.

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

## NOTES:

- If the Remote does not work properly, remove its batteries, wait for a few seconds, replace the batteries and then try again.
- If the batteries of the Remote are discharged, the Remote will not be able to control the TV, cable box or DBS receiver. Replace the batteries.

- **1** A/B/C/D button : □ pg. 71
- 2 VCR/TV/CABLE/DBS selector: □ pg. 68 71
- **3** OK Button
- PROGRAM button: pg. 34, 38
- **⑤** STOP +/− button : □ pg. 35, 38
- **6** START +/− button : □ pg. 35, 38
- Number keys: gpg. 26, 27, 34 Character input buttons: gpg. 49
- **8** DAILY button : □ pg. 35, 39
- **9** DBS button : □ pg. 39
- **(0** CANCEL button : □ pg. 34, 40
  - C. (Counter) RESET button: Fig. 85
- < button : □ pg. 49</p>
- **①** PLAY ( ▶ ) button: 🖙 pg. 21
- **②** REW ( **◄◄ ○** ) button : □ pg. 21, 31
- **③** STOP (■) button: 🖙 pg. 21, 27
- **1** REC ( ) button: 🖙 pg. 26, 27
- **1** MENU button: □ pg. 10
- **16** △ ∇ buttons: 🖙 pg. 11
- **1** NAVI button: 🖙 pg. 42
- **1**B BACK button: □ pg. 35, 53
- (9) OSD button: pg. 29
- ENTER button: ☐ pg. 68 70

  10 TV/VCR button: ☐ pg. 68
- ② POWER button: □ pg. 21, 27
- 2 PROG. CHECK button: pg. 40
- **②** TIMER **②** button : □ pg. 35, 39, 40
- **2** DATE +/− button : 🖙 pg. 35, 38
- **②** TV/VCR CH +/− buttons : □ pg. 26, 38, 68 70
- 26 REC LINK button: ☐ pg. 62
- ② SUBTITLE button: ☐ pg. 25
- 3 REC SPEED button: ☐ pg. 26, 27
- ② WEEKLY button: ☐ pg. 35, 39
- **10** ENTER button
- ③ SKIP SEARCH button: ☞ pg. 24
- **②** > button : □ pg. 49
- **33** AUX button : □ pg. 67
- **③** FF ( ▶ ▶ ) button : □ pg. 21, 31
- **③** PAUSE ( **■** ) button: 🖙 pg. 27, 32
- **③** TV VOL +/– button : □ pg. 68
- **3** OK Button
- 33 | → → | (<|>) button : □ pg. 24
- 3 A. (Audio) MONITOR button: pg. 23
  - **吖/巛** (TV Muting) button: 🖙 pg. 68
- 1 DISPLAY button: F pg. 28

The glow-in-the-dark buttons shown in white on the illustration on the left column are helpful when using the Remote in darkened rooms.

Buttons with a small dot on the left side of the name can also be used to operate your TV after setting the **VCR/TV/CABLE/DBS** selector to "TV". ( pg. 68).



#### **SPECIFICATIONS**

**GENERAL** 

Power requirement : AC 120 V √, 60 Hz

Power consumption

Power on : 42 W Power off : 18 W

Temperature

Operating : 5°C to 40°C (41°F to 104°F)  $: -20^{\circ}\text{C} \text{ to } 60^{\circ}\text{C} (-4^{\circ}\text{F to } 140^{\circ}\text{F})$ Storage

: Horizontal only Operating position

Dimensions (W x H x D) : 435 mm x 94 mm x 383 mm

(17-3/16" x 3-3/4" x 15-1/8")

: 5.5 kg (12.2 lbs) Weight

Maximum recording time

D-VHS (HS) : 210 min. with DF-420 video

cassette

D-VHS (STD) : 420 min. with DF-420 video

cassette

D-VHS (LS3) : 1260 min. with DF-420 video

cassette

D-VHS (LS5) : 2100 min. with DF-420 video

cassette

S-VHS/VHS (SP) : 210 min. with ST-210 video

cassette

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

cassette

#### **VIDEO/AUDIO (D-VHS)**

Video format : MPEG2 standard

Audio format : Encode MPEG1 Layer2

Decode MPEG1 Layer2/

Dolby Digital

LINEAR PCM (HS/STD)

Track composition

Tape speed : 33.4 mm/sec (HS mode)

16.67 mm/sec (STD mode) 5.55 mm/sec (LS3 mode) 3.33 mm/sec (LS5 mode)

Head azimuth : ±30 deg Drum rotation : 1800 rpm Tracking system : CTL track system

Recording specification

Main data input rate: 28.2 Mbps (HS mode)

14.1 Mbps (STD mode) 4.7 Mbps (LS3 mode) 2.8 Mbps (LS5 mode) : IEEE1394 compliant

DTCP digital copy protection

compatible

#### VIDEO/AUDIO (S-VHS/VHS)

Format : S-VHS/VHS NTSC standard Signal system : NTSC-type color signal and

EIA monochrome signal, 525 lines/60 fields

Recording/

Interface

Playback system : DA-4 (Double Azimuth) head

helical scan system

Signal-to-noise ratio : 45 dB

Frequency range

Normal audio : 70 Hz to 10,000 Hz Hi-Fi audio : 20 Hz to 20,000 Hz

#### **TUNER**

Tuning system : Frequency-synthesized tuner

Channel coverage

VHF : Channels 2-13 UHF : Channels 14-69 : 113 Channels **CATV** 

#### **TIMER**

Clock reference : Quartz

Program capacity : 1-year programmable timer/

24 programs

Memory backup time : Approx. 10 min.

#### **CONNECTORS**

Input/Output : i.LINK IN/OUT (DV IN) x 2

> (4-pin, S400) RCA connectors (IN x 3, OUT x 2) S-video connectors (IN x 3, OUT x 2) Component video OUT (Y, PB/CB, PR/CR) x 1 Digital OUT (optical) x 1

#### **ACCESSORIES**

Provided accessories : Infrared remote control unit,

> "AA" battery x 2, Audio cable, RF cable (F-type), S-video cable (4-pin),

Controller

Specifications shown are for SP mode unless specified otherwise.

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



## HOW TO LOCATE YOUR JVC SERVICE CENTER

#### TOLL FREE: 1-800-537-5722

## http://www.jvc.com

#### Dear customer,

In order to receive the most satisfaction from your purchase, please read the instruction booklet before operating the unit. In the event that repair is necessary, or for the address nearest your location within the Continental United States, please call 1-800-537-5722 for your nearest authorized servicer or visit our website at www.JVC.com. Remember to retain your Bill of Sale for Warranty Service.

- JVC

# JVC SERVICE & ENGINEERING COMPANY OF AMERICA

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Sophisticated electronic products may require occasional service. Just as quality is a keyword in the engineering and production of the wide array of JVC products, service is the key to maintaining the high level performance for which JVC is world famous. The JVC service and engineering organization stands behind our products.

NATIONAL HEADQUARTERS

JVC SERVICE & ENGINEERING COMPANY OF AMERICA

DIVISION OF JVC AMERICAS CORP.

10 New Maple Avenue

Pine Brook, NJ 07058-9641

#### \_ ACCESSORIES \_

To purchase accessories for your JVC product, you may contact your local JVC Dealer.
From the 48 Continental United States call toll free: 1-800-882-2345 or on the web at www.JVC.com

# Don't service the product yourself.

#### **CAUTION**

To prevent electrical shock, do not open the cabinet. There are no user serviceable parts inside. Please refer to qualified service personnel for repairs.





## LIMITED WARRANTY

#### **CONSUMER VIDEO 1-90**

JVC COMPANY OF AMERICA warrants this product and all parts thereof, except as set forth below ONLY TO THE ORIGINAL PURCHASER AT RETAIL to be FREE FROM DEFECTIVE MATERIALS AND WORKMANSHIP from the date of original retail purchase for the period as shown below. ("The Warranty Period")

PARTS 1 YR LABOR 90 DAYS

THIS LIMITED WARRANTY IS VALID ONLY IN THE FIFTY (50) UNITED STATES, THE DISTRICT OF COLUMBIA AND IN COMMONWEALTH OF PUERTO RICO.

#### WHAT WE WILL DO:

If this product is found to be defective, JVC will repair or replace defective parts at no charge to the original owner. Such repair and replacement services shall be rendered by JVC during normal business hours at JVC authorized service centers. Parts used for replacement are warranted only for the remainder of the Warranty Period. All products and parts thereof may be brought to a JVC authorized service center on a carry-in basis except for Television sets having a screen size 25 inches and above which are covered on an in-home basis.

#### WHAT YOU MUST DO FOR WARRANTY SERVICE:

Return your product to a JVC authorized service center with a copy of your bill of sale. For your nearest JVC authorized service center, please call toll free: (800) 252-5722.

If service is not available locally, box the product carefully, preferably in the original carton, and ship, insured, with a copy of your bill of sale plus a letter of explanation of the problem to the nearest JVC Factory Service Center, the name and location of which will be given to you by the toll-free number.

If you have any questions concerning your JVC Product, please contact our Customer Relations Department.

#### WHAT IS NOT COVERED:

This limited warranty provided by JVC does not cover:

- Products which have been subject to abuse, accident, alteration, modification, tampering, negligence, misuse, faulty
  installation, lack of reasonable care, or if repaired or serviced by anyone other than a service facility authorized by JVC to
  render such service, or if affixed to any attachment not provided with the products, or if the model or serial number has been
  altered, tampered with, defaced or removed;
- 2. Initial installation and installation and removal for repair;
- 3. Operational adjustments covered in the Owner's Manual, normal maintenance, video and audio head cleaning;
- 4. Damage that occurs in shipment, due to act of God, and cosmetic damage;
- 5. Signal reception problems and failures due to line power surge;
- 6. Video Pick-up Tubes/CCD Image Sensor, Cartridge, Stylus (Needle) are covered for 90 days from the date of purchase;
- 7. Accessories;
- 8. Batteries (except that Rechargeable Batteries are covered for 90 days from the date of purchase); from the date of purchase);

There are no other express warranties except as listed above.

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For customer use: Enter below the Model No. and Serial No. which is located either on the rear, bottom or side of the cabinet. Retain this information for future reference.		
Model No.:	Serial No.:	
Purchase date:	Name of dealer:	



1

<b>90</b> EN	МЕМО

-6	D

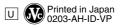
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- THE i.LINK/DV CONNECTION OF THIS PRODUCT CONFORMS TO IEC61883-1; IEC61883-2; IEC61883-4; IEEE STD 1394-1995; IEEE STD 1394A-2000; 1394 INTERFACE IMPLEMENTATION GUIDELINE FOR D-VHS VERSION 1.00 AND DTCP (DIGITAL TRANSMISSION CONTENT PROTECTION) SPECIFICATION VERSION 1.1 (THE "SPECIFICATIONS"). USE OF THIS PRODUCT WITH ANOTHER PRODUCT, DEVICE, COMPONENT, PART OR MATERIAL THAT IS NOT IN CONFORMITY OR COMPLIANT WITH THE SPECIFICATIONS, OR THAT IMPLEMENT THE SPECIFICATIONS IN A NON-CONFORMING OR NON-COMPATIBLE MANNER WITH THIS PRODUCT, MAY NOT BE SUPPORTED AND MAY CAUSE DAMAGE TO OR MALFUNCTION OF THIS PRODUCT. ANY USE OF THIS PRODUCT WITH A NON-CONFORMING OR NON-COMPATIBLE PRODUCT, DEVICE, COMPONENT, PART OR OTHER MATERIAL SHALL BE AT THE USER'S SOLE AND EXCLUSIVE RISK.









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