JVC VIDEO CASSETTE RECORDER HR-S9911U

R SVHS Hit-Fi Compositions Super VHS ET INSTRUCTIONS

LPT0639-001A

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Dear Customer,

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

CAUTIONS



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.

CAUTION:

Changes or modifications not approved by JVC could void user's authority to operate the equipment.

Declaration of Conformity

Model Number:	HR-S9911U
Trade Name:	JVC
Responsible Party:	JVC Americas Corp.
Address:	1700 Valley Road Wayne, N.J. 07470
Telephone Number:	973-317-5000

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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. <u>DO NOT</u> block the VCR's ventilation openings.
- 3. <u>DO NOT</u> place heavy objects on the VCR or on the Remote.
- 4. <u>DO NOT</u> place anything which might spill on the top of the VCR or on the Remote.
- 5. AVOID violent shocks to the VCR during transport.

VCR Plus+, C³ and PlusCode are registered trademarks of Gemstar Development Corporation.

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

DSS[™] is an official trademark of DIRECTV, Inc., a unit of GM Hughes Electronics. L.P. DISH Network[™] is a trademark of Echostar Communications Corporation.

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.

SVHS

• Cassettes marked "S-VHS" and "VHS" can be used with this video cassette recorder. However, S-VHS recordings are possible only with cassettes marked "S-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.

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

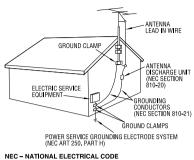
If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper 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

USE

1. Accessories

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

2. Product and Cart Combination

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

3. Water and Moisture

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

4. Object and Liquid Entry

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

5. Attachments

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

6. Cleaning

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

7. Heat

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

SERVICING

1. Servicing

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

2. Damage Requiring Service

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

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

Before use, insert two AA size batteries into the Remote with the polarity $(\bigoplus$ and \bigcirc) 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.

NOTE:

If the Remote does not work properly, remove its batteries, wait for a few seconds, replace the batteries and then try again.

Video heads cleaning

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

Use a dry cleaning cassette — TCL-2 — when:

- Rough, poor picture appears while a tape is played back.
- •
- The picture is unclear or no picture appears. "USE CLEANING CASSETTE" appears on the screen (only with "SUPERIMPOSE" set to "ON" (IF pg. 20)). •

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.

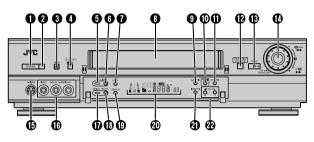


PORTABLE CART WARNING

(Symbol provided by RETAC)

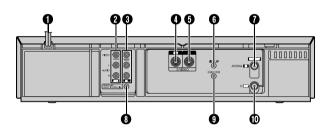
Index

Front Panel

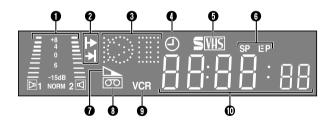


- POWER button
- 2 Remote sensor
- 3 TIMER ⊕ button
- STOP/EJECT ■/▲ button
- 6 REC LINK lamp

Rear Panel



Display Panel



- 6 REC LINK button
- SP/EP button
- 8 Cassette loading slot
- PAUSE II button
- 24HR QUICK PROGRAM button
- PLAY ► button
 ADVANCED JOG dial
- S-VIDEO input connector
- AUDIO/VIDEO input connectors
- DIGITAL TBC/NR lamp
- DIGITAL TBC/NR button
- DISPLAY button
- Display panel
- INSERT button
- CH +/- buttons
- AC power cord
- 2 AUDIO/VIDEO OUT connectors
- AUDIO/VIDEO IN connectors
- S VIDEO OUT connector
- S VIDEO IN connector
- 6 JLIP terminal
- ANTENNA IN terminal 8 REMOTE PAUSE/AV COMPULINK terminal
- G CABLE BOX Controller connector
- **O** TV OUT terminal
- Audio level indicator
- Start Time Indicator (→) Ø
- Stop Time Indicator (→) Symbolic mode indicators

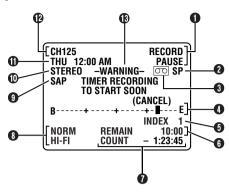
PLAY:		A. DUB:	
FF/REW VARIABLE SEARCH:		A. DUB PAUSE:	
SEARCET.		INSERT:	
STILL: SLOW:	\geq	INSERT PAUSE:	
RECORD:	\bigcirc	AV DUB:	
RECORD PAUSE:	$\bigcirc \blacksquare$	AV DUB PAUSE:	

- Timer mode indicator
- 6 S-VHS indicator
- Tape speed indicators
- **7** Tape remaining time indicator
- Cassette mark
- VCR mode indicator
- Channel and auxiliary input ("L-1" and "F-1") Counter/remain display Clock time

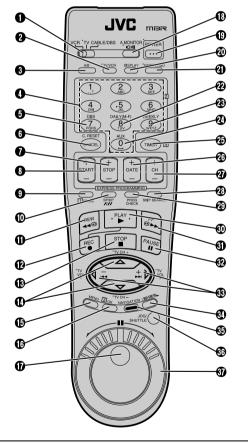
On-Screen Display

If you press OSD or OK on the Remote when "SUPERIMPOSE" is set to "ON" (IF pg. 20), you can see the current VCR status on the TV screen.

The indications are not recorded even if the VCR is in the recording mode.



Remote



When you use the JOG dial/SHUTTLE ring on the Remote, first press **JOG/SHUTTLE** so that the button lights up.

- VCR operation mode
- 2 Tape speed
- 3 Cassette mark
- Tape position
- Index number
- Tape remaining time
- Time counter
- 8 Audio monitor indications
- SAP indication
- STEREO program indication Day and clock time
- Channel and auxiliary input ("L-1" and "F-1")
- 1 Timer warning display

To recall an indication

- 1 Press **OSD** or **OK**.
 - All indications corresponding to the current status are displayed for 5 seconds. After that, the counter information and RECORD/PAUSE if in the Record Pause mode, remain on the TV screen.
- Press **OSD** or **OK** again to clear the display.
- The RECORD/PAUSE indication remains on the TV screen.
- VCR/TV/CABLE/DBS selector
- 2 TV/VCR button
- 3 A/B button
- O Number keys
- Character input buttons
- DBS button
- G CANCEL button
- C. (Counter) RESET button
- STOP +/- button
- START +/- button
- 9 PROG. (Program) button SP/EP //// button
- ① REW ◀◀ ☑ button
- B STOP button
- $\mathbf{O} \bigtriangleup \nabla$ buttons
- TV CH +/- buttons
- MENU button
- OK button
- **1** JOG dial
- A. (Audio) MONITOR button d/ダ (TV Muting) button
- POWER button
- DISPLAY button
- ENTER button
 ENTER
 ENTER button
 ENTER
 E OSD button
- DAILY (M-F) button
- WEEKLY button
- AUX button
- TIMER button
- DATE +/- button
- CH +/- button
 - SKIP SEARCH button
 - PROG. (Program) CHECK button
 - PLAY button

 - PAUSE II button
 - 3 I ►► (< >) button TV VOL +/- button
 - 0 **REVIEW** button
 - NAVIGATION button
 - JOG/SHUTTLE button and lamp
 - SHUTTLE ring

Connections and Plug&Play Setting

Check contents

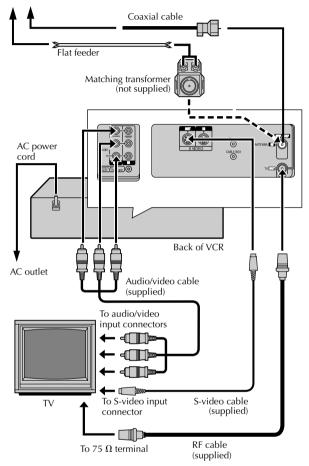
Make sure the package contains all of the accessories listed in "Specifications" (III pg. 26).

2 Situate VCR

Place the VCR on a stable, horizontal surface.

Connect VCR to TV

Antenna or cable



RF Connection

- 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 TV OUT terminal on the rear of the VCR and the TV's antenna input terminal.

AV Connection

(improves picture quality during tape playback.)

- If your TV is equipped with audio/video input connectors
- 1 Connect the antenna, VCR and TV as shown in the illustration.
- 2 Connect the supplied 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

(allows you to make the most of the S-VHS picture performance.) If your TV is equipped with an S-video input connector

- Perform "RF Connection" previously described.
- 2 Connect the supplied S-video cable between the S VIDEO
- OUT connector on the rear of the VCR and the S-video input connector on the TV.
- 3 Connect an audio cable between the AUDIO OUT connectors on the rear of the VCR and the audio input connectors on the TV.
- 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.

4 Perform Plug&Play setup

Plug the AC power cord into an AC outlet. Do not turn on the VCR. The clock and tuner channels will be set automatically. The time and date can be set automatically by the clock setting data transmitted from one of the regular TV broadcast channels. We call this TV channel the "host channel" and it is a PBS channel in your area.

ATTENTION:

- If you use a cable box, Plug&Play will not function; set the clock and tuner channels separately (IP pg. 7 – 8).
- Depending on area or reception conditions, the VCR may not receive 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 procedure in "Semiauto Clock Set" (IIF pg. 7) or "Manual Clock Set" (IIF pg. 7).



During Initial Auto Clock Set "Auto" blinks.

During Auto Channel Set

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

R: NN PM

Plug&Play Completed The current time is displayed.

What to do if Plug&Play setting failed

- If an incorrect time is displayed on the display panel, perform the procedure in "Semiauto Clock Set" (IF pg. 7) or "Manual Clock Set" (IF pg. 7).
 If "----" appears on the display panel, ensure that the antenna
- If "--:--" appears on the display panel, 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 the procedure in "Manual Clock Set"
 (II) pg. 7) and "Auto Channel Set" (II) pg. 8) or "Manual Channel Set" (II) pg. 8).

5 Set VCR channel

The VCR channel is the channel on which you can watch the picture from the VCR on the TV when using the RF connection. Press **POWER** to turn off the VCR, then press **STOP/EJECT** (\blacksquare / \triangleq) on the VCR for more than 5 seconds. "3CH" appears on the display panel. Press **CH+/–** to select "3CH", "4CH" or "– CH"(OFF), then press **OK**.

• The VCR channel is preset to "3CH". Set to "4CH" if 3CH is used for broadcasting in your area.

6 Final preparation for use

Turn on the VCR and the TV, and select the VCR channel 3 or 4 (or AV mode) on the TV. You can now perform basic playback or basic recording.

• If you connect the TV and the VCR only using the RF connection, press **TV/VCR** on the Remote so that the VCR mode indicator lights on the display panel.

Initial Settings

Language Setting

The default setting is "ENGLISH".

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

Access Main Menu screen, then Initial Set screen

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

2 Select language

This VCR offers you the language choice to view menus and some messages — in English, Spanish or French. Press $\triangle \nabla$ to move the highlight bar (arrow) to "LANGUAGE", then press **OK** or \triangleright repeatedly until the desired language is



MAIN MENU

FUNCTION SET

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

selected. Press MENU to return to normal screen.

Language selection will be reset to "ENGLISH" after a power failure occurs.

Clock Setting

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

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

Preparations

Access Main Menu screen, then Initial Set screen

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

2 Access Clock Set screen

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

MAIN MENU
FUNCTION SET
TUNER SET
→INITIAL SET
REC LEVEL CTL
VIDEO NAVIGATION
PRESS (▲,▼), THEN (OK) PRESS (MENU) TO END
PRESS (MENU) TO END
INITIAL SET



Setting clock semiautomatically Semiauto Clock Set

You can change the host channel/D.S.T. (Daylight Saving Time)/ time zone setting manually. First follow steps 1 to 2 in "Preparations" above, then go to the following steps.

NOTE:

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

Set Auto Clock to ON

Press **OK** or ▷ on the Remote repeatedly to move the highlight bar to "AUTO CLOCK", then press $\Delta \nabla$ so that "ON" is selected.

CI	.OCK SET	
TIME : AM	DATE <u> 1/1</u>	YEAR 02
HOST CH	%AUT® : AUT0	(CATV)
PRESS (A, PRESS (MEN	r), THEN (IU) TO EN	OK) D

2 Select host channel

You can either select "AUTO" or enter a PBS channel number. Press **OK** or \triangleright to move the highlight bar to "HOST CH", then press $\triangle \nabla$ repeatedly until "AUTO" or the desired PBS channel number is selected.

• Some PBS channels do not transmit clock setting data.

3 Select D.S.T. mode

Press **OK** or \triangleright to move the highlight bar to "D.S.T.", then press $\triangle \nabla$ repeatedly until the desired setting is selected.

- AUTO: Select if you want to adjust your VCR's clock automatically by the incoming signal from the host channel. (Auto Daylight Saving Time enables automatic adjustment of the VCR's clock at the start and end of Daylight Saving Time.) Be sure to select the correct time zone manually in step 4.
- ON: Adjustment will be made by the built-in clock itself.
- OFF: Select when Daylight Saving Time does not apply to you.

4 Select time zone

Press **OK** or \triangleright to move the highlight bar to "TIME ZONE", then press $\Delta \nabla$ repeatedly until "AUTO" or the desired time zone is selected. Each time you press the button, the time zone changes as

- ↔ AUTO ↔ ATLANTIC ↔ EASTERN ↔ CENTRAL
- ↔ MOUNTAIN ↔ PACIFIC ↔ ALASKA ↔ HAWAII

 \leftrightarrow (back to the beginning)

Complete Semiauto Clock Set

Press MENU to return to normal screen. Turn off the VCR. "Auto" will appear on the display panel while the clock is being set. The current clock time will appear automatically when the clock setting is complete.

Selections of host channel and D.S.T. mode will be reset to "AUTO" after a power failure occurs.

Setting clock manually Manual Clock Set

First follow steps 1 to 2 in "Preparations" above, then go to the following steps.

Set time, date and year

Press $\triangle \nabla$ until the desired time appears, then press **OK** or ▷. Set the date and year in the same way.

• Holding $\triangle \nabla$ changes the time in 30minute intervals, or changes the date in 15-day intervals.

2 Select D.S.T. mode

Press **OK** or ▷ to move the highlight bar to "D.S.T.", then press $\triangle \nabla$ to select the desired setting.

- ON: Adjustment will be made by the built-in clock itself.
- OFF: Select when Daylight Saving Time does not apply to you.

3 Start clock

Press **MENU** and normal screen appears.

To make corrections any time during the process

Press **OK** or \triangleright repeatedly until the item you want to change blinks, then press $\triangle \nabla$.

Manual setting of the clock will be lost after a power failure occurs.



: ON

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

D.S.T.

CLOCK SET

YEAR 02

follows

Tuner Setting

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

Setting channels automatically — Auto Channel Set

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

Access Main Menu screen, then Tuner Set screen

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

2 Perform Auto Channel Set

Press $\triangle \nabla$ to move the highlight bar (arrow) to "AUTO CHANNEL SET", then press **OK** or \triangleright . The VCR selects the correct band (TV or CATV) automatically during Auto Channel Set.

- When Auto Channel Set is complete, "SCAN COMPLETED" appears on screen.
- If the scan was unsuccessful, "SCAN COMPLETED-NO SIGNAL-" appears on screen. Check the connections and start again.

Press MENU to return to normal screen.

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, then Tuner Set screen

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

2 Access Manual Channel Set screen

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

3 Add or skip desired channels

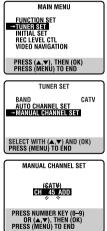
To add channels

- 1 Press the **Number keys** on the Remote to input a channel number you want to add.
- Press **OK** or \triangleright to set to "ADD".
- 3 Repeat 1 to 2 to add other channels. Press **MENU** to return to normal screen.

To skip channels

- Press **OK** or \triangleright to set to "SKIP".
- 3 Repeat 1 and 2 to skip other channels. Press **MENU** to return to normal screen.

After a power failure occurs, band selection will be reset to "CATV".



MAIN MENU

FUNCTION SET

REC LEVEL CTL VIDEO NAVIGATION

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

→AUTO CHANNEL SET MANUAL CHANNEL SET

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

AUTO CHANNEL SET

SCANNING...

PRESS (MENU) TO END

TUNER SET

CATV



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

NOTES:

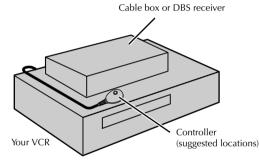
- For the cable box, the Controller is effective for VCR Plus+ system or Express timer programing.
- For the DBS receiver, the Controller is effective only for Express timer programing.
- When connecting your cable box or DBS receiver, refer to its instruction manual.
- Turn on the VCR and TV, and select the VCR channel (or AV mode).
- Set the VCR/TV/CABLE/DBS selector on the Remote to "VCR".

Situate Controller

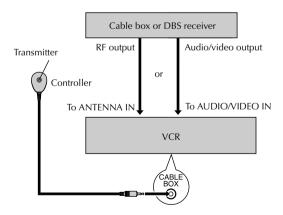
If both a cable box and a DBS receiver are used, position the Controller so its signal reaches the remote sensors on both the cable box and DBS receiver.

2 Attach Controller

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



Connect cable box and/or DBS receiver to VCR



- If your cable box or DBS receiver does not have audio/video output connectors, connect the RF output terminal on the unit to the ANTENNA IN terminal on the rear of your VCR.
- If your cable box or 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 unit.
- If both a cable box and a DBS receiver are used, it is recommended that you connect the DBS receiver to your VCR's AUDIO/VIDEO IN connectors and the cable box to your VCR's ANTENNA IN connector.

4 Connect Controller to VCR

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

5 Turn on cable box or DBS receiver

Select a channel other than channel 9 on your cable box, or channels 100, 205 on your DBS receiver.

Access Main Menu screen, then Initial Set screen on VCR

Press **MENU** on the Remote. Press $\Delta \nabla$ to move the highlight bar (arrow) to "INITIAL SET", then press **OK** or \triangleright .

Access Cable Box Set screen or DBS Receiver Set screen

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

INITIAL SET CLOCK SET LANGUAGE ENGLISH GUIDE CHANNEL SET → GABLEBOXSET DBS RECEIVER SET JLP ID NO. SET SELECT WITH (A.▼) AND (OK) PRESS (MENU) TO END CABLE BOX SET

`OFF

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

8 Select output channel

Your selection depends on how the unit is connected to your VCR.

 If the unit is connected to your VCR's ANTENNA IN terminal on the rear panel, Press △▽ until the channel

number representing the cable box's output (CH2 – CH9) or DBS receiver's output (CH3 or CH4) appears on the screen.

- If the unit is connected to your VCR's AUDIO/VIDEO IN connectors on the front panel, press △▽ until "ON F-1 (FRONT)" appears on the screen.
- If the unit is connected to your VCR's AUDIO/VIDEO IN connectors on the rear panel, press △▽ until "ON L-1 (REAR)" appears on the screen.
- If you do not use any unit, press $\triangle \nabla$ until "OFF" appears on the screen.

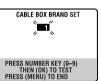
2 Access Brand Set screen

Press **OK** or \triangleright .

• If the Clock Set screen appears, perform "Manual Clock Set" (I pg. 7). If you press **MENU** after the clock has been set, the Brand Set screen appears.

D Enter brand code and perform test

Press the appropriate **Number keys** on the Remote to enter the brand code from the following list, then press **OK** or \triangleright .



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

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

For cable box

- If the cable box's channel changes to 9, setting is complete. Press OK.
- If the cable box's channel does not change to 9;
- 2 Repeat step II until the cable box's channel changes to 9 by _____entering another code.
- If the channel does not change after going through all the code numbers listed for your model of cable box, then try all the other numbers.

For DBS receiver

 If the DBS receiver's channel changes to the channel listed below for your brand, setting is complete. Press OK or ▷.
 JVC → 100 SONY → 205 ECHOSTAR → 100 RCA → 205



CARLE BOX BRAND SET

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

DID YOUR CABLE BOX CHANGE TO CHANNEL 09?

- If the DBS receiver's channel does not change as shown above;
- ☐ Press $\triangle \nabla$ to move the highlight bar (arrow) to "NO", then press **OK** or \triangleright .
- Repeat step 10.

Playback

Basic Playback

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

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 cassette's record safety tab has been removed, playback begins automatically.

NOTE:

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.

2 Start playback

Press **PLAY** (►).

• The S-VHS indicator lights up when you play back a tape recorded in S-VHS mode or in S-VHS ET mode (IP pg. 13).

On the VCR

During playback

Stop playback		
Press STOP/EJECT (■/▲).		
Pause playback and view still	pictu	ire
 Press PAUSE (II). Press PLAY (►) to resume normal playback. 	OR	 Push the ADVANCED JOG dial. Push the ADVANCED JOG dial again to resume normal playback.
Pause and Frame-by-Frame pl	aybao	ck
 Press PAUSE (II) to pause, then press PAUSE (II) repeatedly to advance a still picture. Press PLAY (►) to resume normal playback. 	OR	Push the ADVANCED JOG dial to pause, then turn the ADVANCED JOG dial to the right for forward frame-by- frame playback, or to the left for reverse frame-by-frame playback. • Push the ADVANCED JOG dial again to resume normal playback.

High-Speed Picture Search

Turn the ADVANCED JOG dial quickly to the right for forward high-speed search, or to the left for reverse high-speed search. Press PLAY (>) to resume normal playback.

Slow Motion

Turn the ADVANCED IOG **OR** Press **PAUSE** (**II**) to pause, dial one click to the left for then press and hold PAUSE forward slow motion. To play (\blacksquare) for more than 2 seconds, in reverse slow motion, then release for forward slow continue to turn the motion. Press PAUSE (II) and ADVANCED JOG dial to the release again to return to still left after selecting all the picture. forward direction slow

motion modes.

• Press **PLAY** (**>**) to resume normal playback.

NOTE:

During slow motion, some noise may appear on the TV screen. Press CH+/- to eliminate the noise.

Variable-Speed Picture Search

Turn the ADVANCED JOG dial to the right for forward variablespeed search, or to the left for reverse variable-speed search.

- Press **PLAY** (▶) to resume normal playback.
- Each time the **ADVANCED JOG** dial passes a click position, the playback speed changes. To decrease the speed during picture search, turn the dial in the opposite direction.

On the Remote

During playback Stop playback Press STOP (

Pause playback and view still picture

Press PAUSE (II).

• Press **PLAY** (**>**) to resume normal playback.

Pause and Frame-by-Frame playback				
Press PAUSE (II) to pause,	OR	Press PAUSE (II) to pause,		
then press I		then press JOG/SHUTTLE so		
frame-by-frame playback, or		that the button lights up. Turn		
►►I (or PAUSE (III)) for		the JOG dial to the right for		
forward frame-by-frame		forward frame-by-frame		
playback repeatedly.		playback, or to the left for		
		reverse frame-by-frame		
		playback.		
● Press PLAY (►) to resume normal playback.				

High-Speed Picture Search

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

OR During playback or still, press JOG/SHUTTLE so that the button lights up. Turn the SHUTTLE ring all the way to the right for forward highspeed search, or to the left for reverse high-speed search. Release the SHUTTLE ring to return to still picture.

- Press **PLAY** (▶) to resume normal playback.
- If you press and hold **REW** (2 seconds, simply releasing it cancels the picture search, and normal playback resumes.

Slow Motion

Press JOG/SHUTTLE so that the button lights up. Press PAUSE (II) to pause, then turn the SHIUTTLE ring to the right for forward slow motion, or to the left for reverse slow motion. Release the SHUTTLE ring to return to still picture.

- Press **PLAY** (▶) to resume normal playback.
- During still picture, press and hold **I** to start forward (or It is start reverse) slow motion playback. When you release the button, still picture resumes.
- During still picture, holding PAUSE (II) for more than 2 seconds also starts forward slow motion playback. If you press PAUSE (II) again, still picture resumes.

NOTE:

During slow motion, some noise may appear on the TV screen. Press CH+/- to eliminate the noise.

Variable-Speed Picture Search				
Press I◀◀ or ►►I repeatedly.	OR	During playback or still, press JOG/SHUTTLE so that the button lights up. Turn the SHUTTLE ring to the right for forward variable-speed		
		search, or to the left for reverse variable-speed		

- Press **PLAY** (**>**) to resume normal playback.
- Each time you press I or I have a playback speed changes. To decrease the speed during picture search, press the opposite direction button repeatedly.

search. Release the SHUTTLE ring to return to

still picture.

	Reverse		Ť			Forward
	Reverse search	Reverse play	Reverse slow motion	Slow motion	Normal play	Forward search
SP	-11, -7, -5, -3	-1	-1/6, -1/18	1/18, 1/6, 1/2	1	2, 3, 5, 7, 11
EP	-31, -21, -7, -3	-1	-1/6, -1/18	1/18, 1/6, 1/2	1	2, 3, 7, 21, 31

• You can see smooth slow motion picture only during 1/2x slow motion playback.

When the tape is not running

Rewind/fast-forward

On the VCR

Turn the **ADVANCED JOG** dial to the left to rewind the tape, or right to fast-forward the tape.

On the Remote

Press **REW** (\blacktriangleleft) to rewind the tape, or **FF** (\blacktriangleright) to fast-forward the tape.

Eject the cassette

Press **STOP/EJECT** $(\blacksquare / \blacktriangle)$ on the VCR.

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

Turn off the VCR

Press POWER.

Playback Features

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

Adjusting tracking condition — Tracking Adjustment

Automatic tracking adjustment

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, follow the procedures below.

- Press **CH** + and on the VCR simultaneously during playback to activate manual tracking.
- Press CH + or to eliminate the noises. Press it briefly for a fine adjustment, or press and hold for a coarse adjustment.
 - Press **CH** + and simultaneously again to reactivate
 - automatic tracking.

Selecting monitor sound — Audio Monitor

— Audio Monitor

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.

HI-FI: Normally select this. Hi-Fi sound is played back.

HI-FI L: Sound on the left Hi-Fi channel is played back.

HI-FI R: Sound on the right Hi-Fi channel is played back.

NORM: Sound on the normal track is played back.

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

NOTES:

- The above indication appears when "SUPERIMPOSE" is set to "ON" (IP pg. 20), though the monitor sound changes in sequence.
- You can also use the menu ("AUDIO MONITOR") to select your desired monitor sound. (IF pg. 20)

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.

- For Automatic Playback Start
- Press **REW** (◄◄), then press **PLAY** (►) within 2 seconds. • **For Automatic Power Off**
- Press **REW** (**<**), then press **POWER** within 2 seconds.
- For Automatic Timer Standby
- Press **REW** (**I**), then press **TIMER** (**O**) within 2 seconds.

NOTE:

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

Playing back tape repeatedly (100 times) — Repeat Play

During playback, press and hold **PLAY** (\blacktriangleright) for more than 5 seconds. The play indicator (\triangleright) on the display panel starts blinking slowly. To stop playback, press **STOP** (\blacksquare) on the Remote or **STOP/EJECT** (\blacksquare / \triangleq) on the VCR.

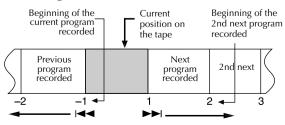
Locating beginning of recordings — Index Search

When recording on this VCR, index codes are placed on the tape at the beginning of each recording.

■ While the tape is not running, press I or >> I on the Remote to start search.

2 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" (III) payback begins automatically when the desired recording is located.





Locating beginning of timer recordings — Instant Review

After ensuring that the VCR is turned off and that the timer mode is disengaged, press **REVIEW**.

- The VCR turns on, and rewinds to the index code indicating the beginning of the last timer-recorded program, then begins playback automatically.
- You can access a program of 2 to 9 index codes away from the current position on the tape. If, for example, you have 5 programs recorded and you want to watch the third one, press REVIEW three times.
- The Instant Review function will also operate if the VCR is turned on.

Skipping unwanted portions — Skip Search

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** (►).

Adjusting picture condition — Digital TBC/NR

The Digital TBC/NR (Time Base Corrector/Noise Reduction) function removes jitter from fluctuating video signals to deliver a stable picture even with old tapes and rental tapes. The Digital R3 function (III) pg. 20) which cuts noise and reproduces clear pictures is also linked to this function.

We recommend that you use the Digital TBC/NR function when —

- playing back a tape recorded on a camcorder.

- playing back a tape repeatedly used.

— using this VCR as the playback VCR for editing.

Press **DIGITAL TBC/NR** on the VCR so that the DIGITAL TBC/NR lamp lights up.

Each time you press the button, this function turns on and off.

NOTES:

- If you play back a tape on which certain types of signals (using a PC or some character generators) have been recorded with Digital TBC/NR activated, the playback picture may be distorted. In this case, deactivate Digital TBC/NR.
- Digital TBC/NR and Video Stabilizer (IP pg. 20) cannot be used at the same time. If you activate Digital TBC/NR when "VIDEO STABILIZER" is set to "ON", "VIDEO STABILIZER" will be automatically set to "OFF". Make sure Digital TBC/NR is deactivated when you want to use Video Stabilizer.

Recording

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

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.



Basic Recording

- Turn on the VCR and TV, and select the VCR channel (or AV mode).
- Set the VCR/TV/CABLE/DBS selector on the Remote to "VCR".
- When you record the programs on this VCR, the tapes are automatically numberd so that every tape recorded on this VCR has a different tape number if "NAVIGATION" is set to "ON" (III) pg. 16). The program information such as recording date, start time, channel number, and recording speed are also automatically stored in the VCR's memory. For details, refer to "Video Navigation" (III) pg. 16).

Load a cassette

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

- The VCR turns on automatically.
- The tape will run for a few seconds while the VCR searches for the tape number.

2 Select recording channel

On the VCR

Press CH+/-. Or push the ADVANCED JOG dial, then turn it to the left or right.

On the Remote

Press CH+/- or the Number keys.

• If you connect the TV and the VCR only using the RF connection, press **TV/VCR** on the Remote so that the VCR mode indicator lights on the display panel, to view the program to be recorded.

Set tape speed

Press SP/EP (////). The selected tape speed will appear on the display panel and on the TV screen.

NOTE:

You can select tape speed in the stop mode or during recording pause mode.

4 Start recording

On the VCR Press REC (●).

On the Remote

While holding **REC** (●), press **PLAY** (►).

NOTES:

- If "VIDEO CALIBRATION" is set to "ON" (IF pg. 19) (default setting), the VCR takes about 7 seconds to assess the quality of the tape in use, then recording begins with the picture level optimized.
- If "MEMORY FULL" appears on the TV screen when you start recording, the VCR's memory for the Video Navigation function is full. This is not related to actual recording, but the program information will not be stored in the VCR's memory. (IF pg. 16, "Video Navigation")

During recording

Pause recording

- Press PAUSE (II).
- Press **PLAY** (**>**) to resume recording.
- You can select channel in the recording pause mode.

Stop recording

On the VCR

Press STOP/EJECT (■/▲).

On the Remote Press STOP (

NOTE:

If the tape reaches its end during recording, the recording stops and " \fbox{O} " on the display panel blinks. Press **STOP/EJECT** (\blacksquare / \triangleq) on the VCR to eject the cassette, or press **REW** (\blacktriangleleft) on the Remote or turn the **ADVANCED JOG** dial to the left on the VCR to rewind the tape.

Recording Features

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

Recording Resume Function

If there is a power outage during recording (or Instant Timer Recording, or timer recording), the recording will resume automatically when the power is restored to the VCR. (No setting is required for this function.)

Specifying recording length — Instant Timer Recording (ITR)

During recording, press **REC** (\bullet) on the VCR repeatedly until the recording length you want appears on the display panel. The record indicator (\bigcirc) on the display panel starts blinking.

- Each time you press the button, recording length increases in 30-minute intervals (up to 6 hours).
- The VCR shuts off after recording is finished.
- To cancel an ITR, press **STOP** (■) on the Remote or **STOP/EJECT** (■/▲) on the VCR.

Watching one program while recording another

During recording ...

- If you connect the TV and the VCR only using the RF connection (I pg. 6) to view pictures from the VCR, press TV/VCR on the Remote so that VCR mode indicator goes off from the display panel. (The TV broadcast being recorded disappears.)
- If you are using the AV or S-video connection (I pg. 6) to view pictures from the VCR, change the TV's input mode from AV to TV.

Then, select the channel you want to watch, on the TV.

Second Audio Recording

This VCR's built-in MTS decoder enables reception of Multichannel TV Sound broadcast. To record a SAP program received, set "2ND AUDIO RECORD" to "ON" (IF pg. 20).

S-VHS (Super VHS), S-VHS ET or VHS Recording Mode

This VCR can record in S-VHS (Super VHS), S-VHS ET or VHS. • To record in S-VHS:

Set "S-VHS MODE" to "ON" (IF pg. 20). Then, insert a cassette marked "S-VHS". The S-VHS indicator lights up on the display panel.

The S-VHS recording mode is selected.

• To record in S-VHS ET on a VHS cassette:

Set "S-VHS ET" to "ON" (IP pg. 19). Then, insert a cassette marked "VHS". The S-VHS indicator lights up on the display panel.

• To record in VHS:

Insert a cassette marked "VHS".

Set "S-VHS ET" to "OFF" (IF pg. 19). • To record in VHS on an S-VHS cassette:

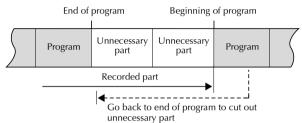
Insert a cassette marked "S-VHS". The S-VHS indicator lights up on the display panel. Then, set "S-VHS MODE" to "OFF" (III) pg. 20). The S-VHS indicator goes off. The VHS recording mode is selected.

NOTE:

When playing back a tape that has been recorded in S-VHS or S-VHS ET, the S-VHS indicator lights up on the display panel regardless of the "S-VHS ET" or "S-VHS MODE" setting. (CF pg. 19, 20)

Retake

You can cut out unnecessary parts of a TV program while you are recording it.



During recording, press **PAUSE** (II) to engage the Record-Pause mode.

2 On the VCR

Turn the **ADVANCED JOG** dial to the left or right and release it at the point where you want to resume recording. **On the Remote**

Hold down **REW** (\blacktriangleleft) or **FF** (\triangleright), or turn the **JOG** dial, and release it at the point where you want to resume recording

3 Press **PLAY** (►) when you wish to resume recording.

Adjusting recording level

You can adjust the audio recording level manually.

Access Main Menu screen, then Recording Level Control screen

Press **MENU** on the Remote. Press $\triangle \bigtriangledown$ to move the highlight bar (arrow) to "REC LEVEL CTL", then press **OK** or \triangleright .

2 Adjust recording level

Press \triangle or ∇ .

- Press △ or ▽ briefly 5 times to move audio levels by one division on the scale. To move the audio levels faster, press and hold △ or ▽.
- Adjust the recording level while watching the audio level indicator on the VCR's display panel. Set the level so that maximum volume causes the indicator to vary between 0dB to 4dB.
- Press MENU to return to normal screen.

NOTES:

- Noise will increase if the recording level is too low, while distortion will increase if the level is too high.
- When you finished audio recording, be sure to set the level control back to its center position.



— 13 —

Timer Recording

Up to 8 timer recording programs can be made using VCR Plus+ timer programing, Express timer programing or 24HR Quick Programing method as far as a year in advance. Remember, the clock must be set before you can program the timer.

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

NOTES:

- If all the 8 programs have already been set, "PROGRAM FULL" or "Full" appears on the TV screen or the display panel.
- 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 recorded.
- To timer-record cable or satellite channels, perform "Cable Box and/or DBS Receiver Control Setting" (C, pg. 8) and be sure to keep the cable box or DBS receiver turned on.
- Even if a power failure occurs, the VCR keeps your timer programs. However, the clock time, channel settings, and other menu settings are lost. As a result, when the power is supplied again to this VCR after the power failure, this VCR starts the Plug&Play setting automatically to restore the clock time and channel setting. If the clock time and channel setting are restored correctly, 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, the recording stops and "^(D)" and "^(D)" on the display panel blink. Press TIMER (^(D)) to disengage timer, then press STOP/EJECT (■/^(Δ)) on the VCR to eject the cassette or press POWER then press REW (^(I)) on the Remote or turn the ADVANCED JOG dial to the left on the VCR to rewind the tape.
- If "MEMORY FULL" appears on the TV screen when you finish a program setting, the VCR's memory for the Video Navigation function is full. This is not related to actual recording, but the program information will not be stored in the VCR's memory.
 (IF) pg. 16, "Video Navigation")

Changing VCR Plus+® Setting

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

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

If you have moved to a different area or if a broadcasting station's channel number has been changed, perform the following steps to set the correct guide channel and corresponding VCR channel number.

Access Main Menu screen, then Initial Set screen

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

2 Access Guide Channel Set screen

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

El Input guide channel number

Press $\triangle \nabla$ or the **Number keys** to select the VCR Plus+ guide channel number as shown in the TV listing, then press **OK** or \triangleright .



Input receiving channel number

Press $\triangle \nabla$ or the **Number keys** to select the number of the channel on which the guide channel's broadcasts are received, then press **OK** or \triangleright .

• Repeat steps 3 and 4 for each instance.

5 Return to normal screen

Press MENU on the Remote.

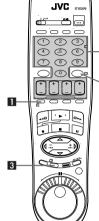
VCR Plus+® Timer Programing

The PlusCode programing numbers are the numbers next to the program in most TV listing. Load a cassette with the record safety

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

Press **PROG.** on the Remote to access the PlusCode No. screen.





GUIDE CHANNEL SET

GUIDE CH : <12// VCR CH :

PRESS NUMBER KEY (0-9)

OR (▲,▼), THEN (OK) PRESS (PROG.) TO END 2

 \mathbf{A}

GUIDE CHANNEL SET

GUIDE CH: © 6/ VCR CH : 47

PRESS NUMBER KEY (0-9) OR (▲,▼), THEN (OK) PRESS (MENU) TO END

the setting is accurate on the Program screen. PLUSCODE NO. 12345678

PRESS NUMBER KEY (0–9) Then (0K) PRESS (PROG.) TO END

2 Press the appropriate **Number keys**

to input the PlusCode number, then

press **OK** or \triangleright . Check to make sure



- If the Guide Channel Set screen appears after pressing OK, press the Number keys, CH+/- or △▽ 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.
- To set the tape speed, press **SP/EP** (**////**).
- To change the stop time, press **STOP+/–**.
- To timer-record daily (Monday–Friday) or weekly serials, press **DAILY (M-F) (Number key "8")** or **WEEKLY (Number key "9")**. Pressing the button again makes the "DAILY" or "WEEKLY" display disappear.
- If you made a mistake, press **CANCEL** to access the PlusCode No. screen again.
- If an incorrect PlusCode number or the one for a broadcast already finished has been inputted, "ERROR" is displayed for about 5 seconds, then the PlusCode No. screen reappears.

3 Press OK or PROG.

- If "PROGRAM NOT COMPLETED PROGRAM OVERLAP" appears, see "Program overlap warning display" (III) pg. 16).
- 4 Press TIMER (℗). The VCR turns off automatically and "℗" is displayed on the display panel.

Express Timer Programing

Load a cassette with the record safety tab intact. The VCR turns on, and the counter is reset, automatically.

- Press **PROG.** on the Remote to access the PlusCode No. screen.
- 2 Press START+/– once to access Program screen.

Press **START**+/-, **STOP**+/-, **DATE**+/- or **CH**+/- repeatedly to enter the start time, stop time, date or channel.

- time, stop time, date or channel. • Press and hold **START**+/- or **STOP**+/to increase the time in 30-minute
- To set the tape speed, press SP/EP (////).
- To timer-record daily (Monday–Friday) or weekly serials, press DAILY (M-F) (Number key "8") or WEEKLY (Number key "9"). Pressing the button again makes the "DAILY" or "WEEKLY" display disappear.
- If you are using a DBS receiver and "DBS RECEIVER SET" is set to "ON", the band indication appears under the channel number indication. (Refer to "Cable Box and/or DBS Receiver Control Setting" (I pg. 8).)



PROGRAM 1

T STOP Am → --:--Am

CH SP

- TV: 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 "CABLE BOX SET" is set to "OFF").
- DBS: To timer-record a satellite broadcast received through a DBS receiver.

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

3 Press OK or PROG.

- If "PROGRAM NOT COMPLETED PROGRAM OVERLAP" appears, see "Program overlap warning display" (III) pg. 16).
- **4** Press **TIMER** (**O**). The VCR turns off automatically and "**O**" is displayed on the display panel.

24HR Quick Programing

You can program a timer recording that starts within 24 hours using the ADVANCED JOG dial on the VCR. Load a cassette with the record safety tab intact. The VCR turns on, and the counter is reset, automatically.

- Press 24HR QUICK PROGRAM on the VCR. "→" starts blinking on the display panel.
- Turn the ADVANCED JOG dial to the left or right to set the start time.
 - One click stop of the ADVANCED JOG dial changes the time in 5minute intervals.
- I Push the ADVANCED JOG dial. "→!" starts blinking on the display panel. Turn the ADVANCED JOG dial to the left or right to set the stop time.



Чh

- To set the tape speed, press **SP/EP** (////).
- Push the ADVANCED JOG dial. Turn the ADVANCED JOG dial to the left or right to select the channel, then press 24HR QUICK PROGRAM. The VCR turns off automatically and "④" is displayed on the display panel.

NOTES:

- If "Err" appears on the display panel, repeat the above steps again.
- When a menu screen is shown, you cannot use 24HR Quick Programing function. Press MENU to return to normal screen, and try again.
- You can use 24HR Quick Programing function also when the VCR is turned off.
- For 24HR Quick Programing function, the program overlap warning display does not appear even if some programs overlap each other.

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

Press **TIMER** ($^{(O)}$), then press **POWER**. After you use the VCR, press **TIMER** ($^{(O)}$) again to put the VCR into timer recording standby mode.

Checking, canceling or changing program settings

Disengage timer

Press **TIMER** (**(()**), then press **POWER**.

 When "AUTO TIMER" is set to "ON" (I pg. 20), you do not have to press TIMER (𝔅).

2 Access Program Check screen Press PROG. CHECK.

Access Program screen

Press **PROG. CHECK** again. Each time you press **PROG. CHECK**, the next program's Program screen appears.



4 Cancel or change program setting

To cancel a program, press CANCEL when the Program screen you do not want is shown.

To change a program, press the appropriate button: START+/-, STOP+/-, DATE+/-, CH+/-, DAILY (M-F) (Number key "8"), WEEKLY (Number key "9"), and/or SP/EP (////) when the Program screen on which you want to make changes is shown.

E Return to normal screen

Press **PROG. CHECK** repeatedly until no Program screen is shown.

6 Reengage timer recording standby mode

Press **TIMER** (\mathfrak{O}). The VCR turns off automatically and " \mathfrak{O} " is displayed on the display panel.

 When "AUTO TIMER" is set to "ON" (IF pg. 20), the timer recording standby mode automatically resumes when you turn off the VCR.

Program overlap warning display

IF "PROGRAM NOT COMPLETED PROGRAM OVERLAP" appears, you have another program overlapping the program you have just made. The Program Check screen appears and conflicting programs will start blinking.



Example:

Program 1 (you have just made) and Program 4 overlap each other

Select program to modify

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

- You can only select one of the overlapping programs.
- If you do not mind this overlap, press **PROG.** to finish the timer program setting. The program starting earlier or program with the lower program number will be recorded.

2 Cancel or change program setting

To cancel a program, press CANCEL when the Program screen you do not want is shown.



PR START STOP 1 8:00P 10:00 2 10:00A 10:45 3 11:30P 1:00

9:00P 10:00 10

(▲,▼) THEN (▶) (PROG.) : END

CH 12 40

12

DATE DATE 12/24

12/24

To change a program, press the appropriate button: START+/-, STOP+/-, DATE+/-, CH+/-, DAILY (M-F) (Number

key "8"), WEEKLY (Number key "9") and/or SP/EP (////) when the Program screen on which you want to make changes is shown, then press **OK** or \triangleright .

• If the overlap is not yet solved, the conflicting programs will be shown on the Program check screen. Repeat the above steps again.

Video Navigation

When you record a TV program with this VCR, the VCR automatically stores in its memory the recording start time, date, channel information, etc. If the tape is recorded on this VCR for the first time, new tape number and the recording date are also registered. On the tape only the tape number information is recorded.

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

Navigation Playback

You can quickly find programs you have recorded on a tape using this VCR. You can also select a program to watch, and then automatically search for the beginning of the program.

Load a cassette

Inserting the cassette 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.
- If the cassette's record safety tab has been removed, playback begins automatically.

2 Access Title screen

Press NAVIGATION.

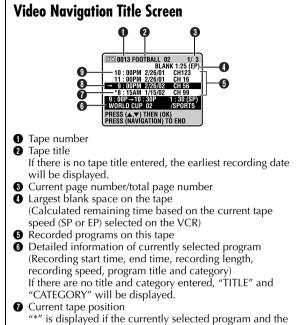
- After pressing NAVIGATION, it may take a few seconds to access the Title screen.
- If there is no cassette loaded, the Find Title screen appears. (EF pg. 18)

Select program, then start playback

Press $\triangle \nabla$ to move the highlight bar (arrow) to the program you want to play back, then press **OK**. • Playback starts automatically after the

selected program is located.





- current tape position are different while tape is not running.
- 8 Currently selected program
- 9 Program information
 - (Recording start time, date and channel number)

Deactivating Video Navigation

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

Access Main Menu screen, then Video Navigation screen

Press **MENU** on the Remote. Press $\triangle \nabla$ to move the highlight bar (arrow) to "VIDEO NAVIGATION", then press **OK** or \triangleright .

Deactivate Video Navigation

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

Press MENU to return to normal screen.

NOTES:

- Video Navigation is possible only with the cassettes 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 continue to record each program for over the minimum recording time; 5 minutes for the SP mode or 15 minutes for the EP mode.
- 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, - 16 — it is impossible to restore that information.Screens for video

PRESS (▲,▼), THEN (OK) PRESS (MENU) TO END VIDEO NAVIGATION EDIT TITLE FIND TITLE FIND BLANK SPACE CHECK MEMORY →NAVIGATION : 0FF

MAIN MENU

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



• Screens for video navigation close after about 60 seconds if no operation is performed.

Editing Titles

You can 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.

Preparations

Access Main Menu screen, then Video **Navigation screen**

Press **MENU** on the Remote. Press $\triangle \nabla$ to move the highlight bar (arrow) to "VIDEO NAVIGATION", then press **OK** or \triangleright .

2 Access Edit Title screen

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

3 Select tape number

Press $\triangle \nabla$ to move the highlight bar (arrow) to the tape number for which you want to edit, then press **OK** or \triangleright .

• "*" indicates the tape currently inserted in the VCR.

Editing tape title

First follow steps 1 to 3 in "Preparations" above, then go to the following steps.

Select tape title

Press $\triangle \nabla$ to move the highlight bar (arrow) to the tape title, then press OK or \triangleright .

2 Enter tape title

Press the appropriate Number keys on the Remote to enter the title, then press **OK**.

For details, refer to "How to enter the characters" below. Press MENU to return to normal screen.

How to enter the characters

Press the appropriate **Number key**, then press \triangleright to enter each character.

Number Key	Characters
1	.,?-+*/()1
2	A B C 2 Ä Â À Á Å Ã Ç
3	D E F 3 Ê È É Ë
4	GHI4ÏÎÌÍ
5	J K L 5
6	M N O 6 Ñ Ö Ô Ò Ó Õ
7	PQRS7
8	Τ U V 8 Ü Ù Ú Û
9	W X Y Z 9
0	0 _(space)







→ 0300114 3/18/02- 1/ 8 : 00PM 2/27/02 CH 5 10 : 00PM 2/28/02 CH 16 8 : 15AM 1/15/02 CH 99

PRESS (▲,▼) THEN (OK) TO EDIT OR (CANCEL) TO DELETE PRESS (MENU) TO END

1/3

NOTES:

- If you make a mistake, press $\triangleleft \triangleright$ to select the character, then enter the correct character.
- If you want to delete a character, press $\triangleleft \triangleright$ to select the character, then press CANCEL.

Editing program title and category

First follow steps 1 to 3 in "Preparations" above, then go to the following steps.

Select program

Press $\triangle \nabla$ to move the highlight bar (arrow) to the program you want to edit, then press **OK** or $\widecheck{\triangleright}$.

2 Enter program title

Press the appropriate Number keys on the

Remote to enter the title, then press OK. For details, refer to "How to enter the characters" in the left column.

Select category

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

- Each time you press $\triangle \nabla$, category changes as follows:
 - ↔ CATEGORY ↔ MOVIE ↔ SPORTS ↔ SPECIAL ↔ SERIES ↔ NEWS

 \leftrightarrow CHILDREN \leftrightarrow SHOPPING \leftrightarrow (back to the beginning)

Press MENU to return to normal screen.

Deleting tape information

First follow steps 1 to 3 in "Preparations" above, then go to the following steps.

NOTE:

The tape information for the Video Navigation is deleted, but the actual recorded programs will not be erased.

Select tape title

Press $\triangle \nabla$ to move the highlight bar (arrow) to the tape title, then press CANCEL.

2 Delete tape information

Press $\triangle \nabla$ to move the highlight bar (arrow) to "YES", then press \mathbf{OK} or \triangleright . Press MENU to return to normal screen.





Deleting program information

First follow steps 1 to 3 in "Preparations" above, then go to the following steps.

NOTE:

The program information for the Video Navigation is deleted, but the actual recorded program will not be erased.

Select program

Press $\triangle \nabla$ to move the highlight bar (arrow) to the program you want to delete, then press CANCEL.

2 Delete program information

Press $\triangle \nabla$ to move the highlight bar (arrow) to "YES", then press OK or \triangleright . Press MENU to return to normal screen.



→ YES NO



200114 JVC NEWS 1 8:00PM 2/27/02 CH 5 10:00PM 2/28/02 CH 16 8:15AM 1/15/02 CH 99 8:15A→10:45A 2:30 (EP) TITLE //CATEGO

PRESS (▲,▼) THEN (OK) TO EDIT OR (CANCEL) TO DELETE PRESS (MENU) TO END



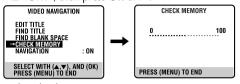
Checking memory

Access Main Menu screen, then Video Naviaation screen

Press **MENU** on the Remote. Press $\triangle \nabla$ to move the highlight bar (arrow) to "VIDEO NAVIGATION", then press **OK** or \triangleright .

2 Check memory

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



• The Check Memory screen appears.

When the scale bar reaches "100" on the TV screen, VCR's memory is full and "MEMORY FULL" appears. If the VCR's memory becomes full, the VCR cannot register any more information. Delete any unnecessary data of tape or program from the VCR's memory.

Press MENU to return to normal screen.

Finding Titles

Preparations

Access Main Menu screen, then Video Navigation screen

Press **MENU** on the Remote. Press $\triangle \nabla$ to move the highlight bar (arrow) to "VIDEO NAVIGATION", then press **OK** or \triangleright .



VIDEO NAVIGATION

: ON

EDIT TITLE →FIND TITLE FIND BLANK SPACE CHECK MEMORY NAVIGATION

MAIN MENU

FUNCTION SET TUNER SET INITIAL SET REC LEVEL CTL →VIDEO NAVIGATION

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

2 Access Find Title screen

Press $\triangle \nabla$ to move the highlight bar (arrow) to "FIND TITLE", then press OK or \triangleright

NOTE:

SELECT WITH (▲,▼), AND (OK) PRESS (MENU) TO END You can display the Find Title screen on the TV screen by pressing NAVIGATION on the Remote when no cassette is inserted.

Finding by tape number

First follow steps 1 to 2 in "Preparations" above, then go to the following steps.

Access tape number screen

Press $\triangle \nabla$ to move the highlight bar (arrow) to "TAPE NO.", then press OK or \triangleright .

2 Select tape number

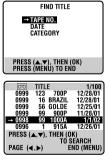
Press $\triangle \nabla$ to move the highlight bar (arrow) to the tape number you want to play back, then press **OK**.

- To go to another page of the lists, press \triangleleft or \triangleright .
- If the selected cassette has already been loaded, playback begins automatically.

S Load cassette

Insert the tape of the selected number.

Playback begins automatically.





Finding by recording date

First follow steps 1 to 2 in "Preparations" above, then go to the following steps.

Access date screen

2 Select tape number

play back, then press OK.

3 Load cassette

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

Press $\triangle \nabla$ to move the highlight bar

(arrow) to the tape number you want to

Insert the tape of the selected number.

Playback begins automatically.

 If the selected cassette has already been loaded, playback begins automatically.

TAPE NO. → DATE Category PRESS (▲,▼), THEN (OK) PRESS (MENU) TO END OTO TITLE 1/100 0993 LOST WORL 1/15/02 → 0998 99 1000A 12/30/01 0999 0999 0999 0999 0994 FOOTBALL F1 BRAZIL 007 GOLDE 181 115P 12/26/01 12/26/01 11/15/01 11/14/01 0994 181 115P 11/14/01 PRESS (▲,▼), THEN (OK) TO SEARCH PAGE (◀,►) END (MENU) PAGE (◀,►)

FIND TITLE

INSERT TAPE 0998 PRESS (MENU) TO END

FIND TITLE

TAPE NO. DATE → CATEGORY

Finding by category

First follow steps 1 to 2 in "Preparations" above, then go to the following steps.

Access category screen

Press $\wedge \nabla$ to move the highlight bar (arrow) to "CATEGORY", then press OK or \triangleright

2 Select category

Press $\triangle \nabla$ to move the highlight bar (arrow) to the category you want, then press OK.

Select tape number

Press $\triangle \nabla$ to move the highlight bar (arrow) to the tape number you want to play back, then press OK.

• If the selected cassette has already been loaded, playback begins automatically.

4 Load cassette

Insert the tape of the selected number. • Playback begins automatically.

Finding blank space

Access Main Menu screen, then Video Navigation screen

Press **MENU** on the Remote. Press $\triangle \nabla$ to move the highlight bar (arrow) to "VIDEO NAVIGATION", then press **OK** or \triangleright .

Access Find Blank Space screen

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











3 Select tape number

Press $\triangle \nabla$ to move the highlight bar (arrow) to the tape number on which you want to record a program, then press OK.

- PRESS (▲,▼), THEN (OK) TO SEARCH • The calculated blank space is based on the current tape speed (SP or EP) selected PAGE (◀,►) on the VCR.
- If the selected cassette has already been loaded, the VCR searches the beginning of the blank space and goes into the stop mode automatically.

4 Load cassette

Insert the tape of the selected number.

• The VCR searches the beginning of the blank space and goes into the stop mode automatically.

INSERT TAPE 0998

-WARNING-TIMER RECORDING TO START SOON (CANCEL)

→ 0998 2:30 1 0120 2:30 M 0105 2:15 B/ 0055 2:05 2

0013 2:00 EP) 1/100 1/15/02-Movie2 Baseball

2/19/02-FOOTBALL

1/25/02

END (MENU)

PRESS (MENU) TO END

Other Functions

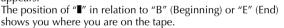
Timer warning display

A warning appears on the TV screen to tell you that the timer-recording is to start in 5 minutes if you are not in the timer recording standby mode at that time. Press TIMER (O) to put the VCR into timer

recording standby mode. To clear the display, press CANCEL on the Remote.

Checking tape position

When you change the VCR operation mode from the stop mode to fast forward or rewind mode, or when you perform an Index Search (Er pg. 11) or Instant Review (IF pg. 12), the tape position indicator appears.



• Set "SUPERIMPOSE" to "ON" (

Changing display information

Each time you press **DISPLAY**, the display panel shows the time counter, the channel number, the clock time and the tape remaining time alternatively.

- To reset the time counter, press C.RESET on the Remote.
- During playback, the channel number is not shown.
- also lights on the display panel.
- When "SUPERIMPOSE" is set to "ON" (IF pg. 20) and DISPLAY on the Remote is pressed, the current VCR status appear on the TV screen.

1 8:00 盒 ιΩĥ

-

1:00 - 1:23:45

REMAIN

Function settings

You can use the other useful function settings on the Function Set screen

• Turn on the VCR and TV, and select the VCR channel (or AV

MAIN MENU

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

→FUNCTION SET IONER SET INITIAL SET REC LEVEL CTL VIDEO NAVIGATION

mode) Set the VCR/TV/CABLE/DBS selector on the Remote to "VCR".

Access Main Menu screen, then

Function Set screen

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

2 Select Function

Press riangle
abla to move the highlight bar (arrow) to the function you want to set.



Change setting

Press **OK** or \triangleright . The default setting is **bold** in the table below. Press MENU to return to normal screen.

After a power failure occurs, Function Settings will be reset to its default setting.

S-VHS ET — ON/OFF

When this function is set to "ON", you can record on VHS cassettes with S-VHS picture quality. Tapes recorded using this function can be played back on most of S-VHS VCRs or VHS VCRs equipped with the SQPB (S-VHS QUASI PLAYBACK) function. When this function is set to "ON", the S-VHS indicator lights up on the display panel.

NOTES:

- Before recording, set "VIDEO CALIBRATION" to "ON". (See below)
- You cannot activate the S-VHS ET function while recording. timer-recording or Instant Timer Recording (r pg. 13) or the "VIDEO CALIBRATION" function (See below) is in progress.
- The S-VHS ET function does not work with S-VHS cassettes.
- To keep the highest quality recording and playback pictures over a long period of time, S-VHS recording on S-VHS cassettes is recommended.
- Use of high grade tapes is recommended for S-VHS ET recordings. On some tapes, picture quality will not improve even if the S-VHS ET function is used. Check the recording quality before you start important recordings.

VIDEO CALIBRATION — 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.

NOTE:

The VCR checks the tape condition for about 7 seconds, then starts recording. To make sure you record the desired scene or program completely, perform the following steps:

- Press and hold **PAUSE** (**II**), and press **REC** (**O**). After about 7 seconds, the VCR re-enters Record Pause mode.
- Press PLAY (►) to start recording.

PICTURE CONTROL — AUTO(NORM)/EDIT/SOFT/SHARP

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

AUTO (NORM): Normally select this. Picture guality is adjusted automatically. When "VIDEO CALIBRATION" is "OFF", "NORM" will appear instead of "AUTO".

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.

NOTE:

Select "EDIT" when you are editing tapes. After you finish editing the tapes, select "AUTO".

AUTO TIMER — ON/OFF

• 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** (O) to engage or disengage the timer recording standby mode.

• When this function is set to "OFF":

You have to press **TIMER** $(\boldsymbol{\Theta})$ to engage or disengage the timer recording standby mode.

SUPERIMPOSE — ON/OFF

When this function is set to "ON", various VCR status information (on-screen display) appears on the screen.

NOTE:

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.

■ AUTO SP→EP TIMER — 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

NOTES:

- If you have programed the VCR to timer-record 2 or more programs, do not use this function, but change the tape speed manually during timer programing.
- There may be some noise and sound disturbance where the tape speed switches from SP to EP mode on the tape.
- This function is not available during ITR (Instant Timer Recording), and will not work properly on the following tapes: T(ST)-30, T(ST)-60, T(ST)-90, and T(ST)-120.

DIGITAL R3 — 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 — ON/OFF

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

NOTES:

- To watch recordings with close-caption or when you finish viewing a tape, set this function to "OFF".
- Video Stabilizer and Digital TBC/NR (EF pg. 12) cannot be used at the same time. If you activate Digital TBC/NR when "VIDEO STABILIZER" is set to "ON", "VIDEO STABILIZER" will be automatically set to "OFF".

BLUE BACK — ON/OFF

When this function is set to "ON", the TV screen becomes all blue when receiving a channel not in use.

NOTE:

When you want to receive an unstable channel with poor signals, set this function to "OFF".

2ND AUDIO RECORD — ON/OFF

When this function is set to "ON";

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

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

NOTE:

- 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.
- Both indications appear when a stereo program is accompanied by SAP sound.

AUDIO MONITOR — HI-FI/HI-FI L/HI-FI R/NORM/MIX

This VCR can record two sound tracks simultaneously (normal and Hi-Fi) on a Hi-Fi stereo tape. You can select the sound track(s) to listen to while playing back a Hi-Fi stereo tape. In addition, when playing back a prerecorded tape containing two separate audio programs on the Hi-Fi tracks, you can choose either one by selecting either "HI-FI L" or "HI-FI R".

HI-FI: Normally select this. Hi-Fi sound is played back.

HI-FI L: Sound on the left Hi-Fi channel is played back.

HI-FI R: Sound on the right Hi-Fi channel is played back.

NORM: Sound on the normal track is played back.

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

NOTES:

- While playing back a monaural tape, sounds on the normal track will be heard regardless of this setting.
- If RF connection (pg. 6) is used for viewing pictures on the TV, sound will be monaural even though you select "HI-FI".
- You can also use the A.MONITOR button on the Remote to select the desired monitor sound. (EF pg. 11)

S-VHS MODE — ON/OFF

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

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

NOTES:

- 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 recommended 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 (I pg. 19).

AV COMPU-LINK — 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, including amplifiers (or receivers) and televisions, one touch control of the audio and video components linked via their AV COMPULINK connectors becomes possible.
- When this function is set to "OFF", you can use this terminal as the REMOTE PAUSE terminal. If your 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) between the REMOTE PAUSE terminal and the EDIT connector on the camcorder.

NOTE:

Refer to the other components' instruction manuals for connection and its operations.

FRONT AUX INPUT — 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 on the front panel.

Make sure to select the correct terminal; otherwise, you may fail in recording (editing) on this VCR.

REAR AUX INPUT — 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 on the rear panel.

Make sure you select the correct terminal; otherwise, you may fail in recording (editing) on this VCR.

Satellite Auto Recording

You can automatically record a satellite program which is timerprogramed on your DBS receiver.

- Turn on the VCR and TV, and select the VCR channel (or AV mode).
- Set the VCR/TV/CABLE/DBS selector on the Remote to "VCR".
- Connect a DBS receiver to the AUDIO/VIDEO IN or S VIDEO IN connectors* on the rear panel. You can also connect the cable box if it has a timer.
 - To use these connectors, you have to select which one to use. (C3) See above, "REAR AUX INPUT".)
- **2** Set timer program on DBS receiver using its instruction manual.
- **3** Load a cassette with the record safety tab intact.
- 4 Press SP/EP (////) to set the tape speed. The selected tape speed will appear on the TV screen.
- Press REC LINK for more than 2 seconds. The VCR turns off automatically and enters the Satellite Auto Recording standby mode and the REC LINK lamp lights. When the DBS receiver outputs a signal, the VCR starts recording and the REC LINK lamp blinks. The VCR stops recording and powers off when the DBS receiver stops outputting a signal.

NOTES:

- 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.
- To disengage the Satellite Auto Recording standby mode, press **REC LINK** (the REC LINK lamp goes off).
- Depending on the type of DBS receiver, Satellite Auto Recording may not be compatible.

Child Lock

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

You can disable the VCR operations. While the VCR is turned on, press and hold **POWER** on the Remote for more than 10 seconds. The VCR turns off, "CL"

appears for about 5 seconds on the display

panel. To release the child lock, press and hold **POWER** on the Remote until the VCR turns on.

NOTES:

- Pressing TIMER ([®]) during timer recording, unplugging the AC power cord or a power outage also releases the child lock.
- Even if the child lock function is in use, it is possible to engage and disengage the timer mode with **TIMER** (⊕) on the Remote. Keep the Remote out of the children's reach.
- Timer recording programs will be performed even if the child lock function is activated.

JLIP ID Number Setting

- Turn on the VCR and TV, and select the VCR channel (or AV mode).
- 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.

NOTE:

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

Access Main Menu screen, then Initial Set screen

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

2 Access JLIP ID Number Set screen

Press $\triangle \nabla$ to move the highlight bar (arrow) to "JLIP ID NO. SET", then press **OK** or \triangleright .

3 Set JLIP ID number

Press the appropriate **Number keys** on the Remote to enter the desired ID number, then press **OK**. Press **MENU** to return to normal screen.



1

PRESS NUMBER KEY (0-9) THEN (OK) PRESS (MENU) TO END

Multi-Brand Remote Control

When programed (set) with a manufacturer's (brand's) code, this Remote can perform some of the remote control functions of the listed TVs, cable boxes and DBS (Direct Broadcast Satellite) receivers. You can control a JVC TV without setting a brand code.

NOTES:

- Some unit's brands have more than one code listed. If after setting, the remote does not operate the unit, try one of the other listed codes.
- Depending on the type of unit, some or all functions cannot be operated using this Remote.
- It is impossible to control a unit that does not have a remote sensor.
- It is not possible to set the Remote for both your cable box and a DBS receiver at the same time.
- Once you have set the Remote to operate a unit, you do not have to set it again until you replace the Remote's batteries.
- 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.

TV Brand Setting

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

Turn on TV

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

2 Set TV brand code

- 1 Press and hold **POWER** on the Remote.
- Press the **Number keys** to enter your TV's brand code.
- ③ Press **STOP** (■), and release **POWER**. The TV should turn off.

3 Operate TV

First set the VCR/TV/CABLE/DBS selector to "TV", then press one of the following buttons: POWER, TV/VCR, TV CH+/–, ⊄/⊀ (TV Muting), TV VOL+/–, and the 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".

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

Cable Box or DBS Receiver Brand Setting

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

Turn on cable box or DBS receiver

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

Enter brand code

- Press and hold **POWER** on the Remote.
- 3 Press **STOP** (■), and release **POWER**. The cable box (or DBS receiver) should turn off.

Operate cable box or DBS receiver

First set the VCR/TV/CABLE/DBS selector to "CABLE/DBS", then press one of the following buttons: POWER, TV CH+/-, and the 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 (or DBS receiver's) channels, press **TV CH+/–** or the **Number keys**. (The **CH+/–** button can be used to change the VCR's channels only.)
- To operate the VCR, set the VCR/TV/CABLE/DBS selector back to "VCR".

CABLE BOX BRAND	CODE
ARCHER	01, 05, 17
CABLETENNA	01, 17
CABLEVIEW	15, 16, 17, 21, 25
CITIZEN	15, 16, 17, 21, 25
CURTIS	02
DIAMOND	01, 17
GC BRAND	15, 16, 17, 21, 25
GEMINI	15
GENERAL INSTRUMENTS	01, 04, 06, 11, 12, 15, 28
HAMLIN	10, 18, 23
JASCO	15
JERROLD	01, 04, 06, 11, 12, 15, 28
NOVAVISION	02
OAK	07
PANASONIC	13, 14
PULSER	15, 16, 17, 21, 25
RCA	13, 14
REGAL	10, 18, 23
REMBRANDT	01, 16, 17
Samsung	05, 16, 24
SCIENTIFIC ATLANTA	02
SIGMA	07
SL MARX	05, 16, 17, 24, 25
SPRUCER	13, 14
STARGATE	05, 15, 16, 17, 21, 24, 25
TELEVIEW	05, 16, 24
TOCOM	01, 04, 16
UNIKA	01, 17
UNIVERSAL	16, 17, 25
VIDEOWAY	03, 09, 22
ZENITH	03, 09, 22
DBS RECEIVER BRAND	CODE
IVC (DISH Network)	51
ECHOSTAR (DISH Network)	51
SONY (DSS)	41
RCA (DSS)	40

Changing Remote Control Code

This Remote is capable of transmitting two different control codes, A code control signals or B code control signals. This Remote 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 VCR to send and respond to B code signals. When using two JVC VCRs, set the two VCRs and their Remotes to different codes, so that the Remotes can operate the VCRs separately.

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

Set remote control code for Remote

- 1 Press and hold **A/B**.
- Press the Number key "2".
- ③ Press STOP (■), and release A/B.
- The Remote now can transmit B code control signals.

2 Check remote control code for VCR

Press and hold \blacktriangleright on the VCR for more than 5 seconds while the VCR is turned off. The code currently set appears on the display panel.

Change code for VCR

Press any key on the Remote. The VCR now responds to B code control signals.

• To set the Remote and the VCR to transmit and respond to A code control signals, repeat above procedure as shown above except press the Number key "1" in step 2 of **1**.

To control two VCRs with the same Remote

You can control two IVC VCRs by switching the remote control code for the Remote between A and B (step 1), keeping two VCRs to different control codes.

• To change only the remote control code for the Remote, DO NOT perform steps 2 and 3.

Editing

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.

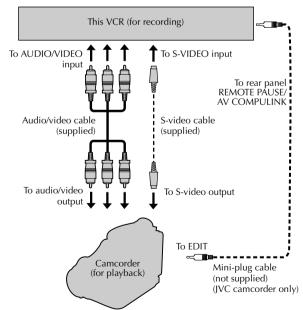
• S-VHS to S-VHS (S-VIDEO connection):

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.

Editing from Camcorder

You can use a camcorder as the playback unit and your VCR as the recording VCR. Refer also to the camcorder's instruction manual for connection and its operations.

Make connections



- 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.
- If camcorder is monaural, connect the audio output connector on the camcorder to the left audio input connector on this VCR.

2 Load cassettes

Insert the playback cassette into the camcorder and the cassette to be recorded on into this VCR.

3 Select input location on this VCR

Select the correct external input location on this VCR.

Select "L-1" —when connecting the camcorder to the audio/video (or S-video) input connectors on the rear panel.

Select "F-1" —when connecting the camcorder to the audio/video (or S-video) input connectors on the front panel.

On the VCR

Press CH+/- or push the ADVANCED JOG dial, then turn it to the left or right until "L-1" or "F-1" appears on the display panel. On the Remote

Press AUX and/or CH+/- until "L-1" or "F-1" appears on the display panel.

4 Select video input connector

Select the appropriate mode depending on the connector being used (🖙 pg. 21).

When using S-VIDEO input connector on the front panel, set "FRONT AUX INPUT" to "S-VIDEO". When using S-VIDEO IN connector on the rear panel, set "REAR

AUX INPUT" to "S-VIDEO".

When using VIDEO input connector on the front panel, set "FRONT AUX INPUT" to "VIDEO".

When using VIDEO IN connector on the rear panel, set "REAR AUX INPUT" to "VIDEO".

5 Select edit mode

Set "PICTURE CONTROL" to "EDIT" (IF pg. 20).

6 Set AV COMPU-LINK mode

If your JVC camcorder is equipped with a Master Edit Control, set "AV COMPU-LINK" to "OFF" (I pg. 21). The REMOTE PAUSE/ AV COMPULINK connector works as a Remote Pause connector.

Z Start playback

Set the camcorder to its play mode.

NOTE:

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

8 Start recording

On the VCR

Press REC (•).

On the Remote

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

• If you are using a Master Edit Control-equipped JVC camcorder, recording starts automatically on this VCR. (Refer to camcorder's instruction manual.)

NOTE:

Be sure to select "AUTO" for "PICTURE CONTROL" (or "NORM" when "VIDEO CALIBRATION" is set to "OFF") after you finish dubbing the tapes. (127 pg. 20)

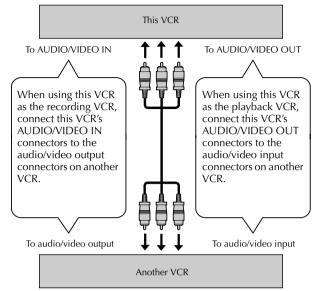
Editing with Another VCR

You can use your VCR as the playback or recording VCR. Refer also to the other components' instruction manuals for connection and its operations.

Make connections

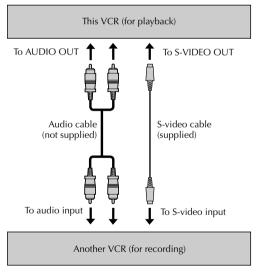
Example 1: When another VCR is VHS VCR

Connect two VCRs with the supplied audio/video cable.

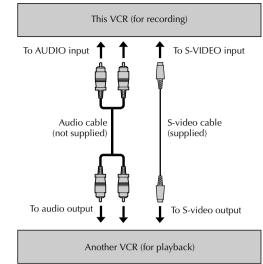


• If another VCR is monaural, connect this VCR's AUDIO L IN (or OUT) connector to the audio output (or input) connector on another VCR.

Example 2: When another VCR is S-VHS VCR and when using this VCR as the playback VCR



Example 3: When another VCR is S-VHS VCR and when using this VCR as the recording VCR



2 Load cassettes

Insert the playback cassette into the playback VCR and the cassette to be recorded on into the recording VCR.

Select input location on recording VCR

Select the correct external input location on the recording VCR. On this VCR (when using this VCR as the recording VCR); Select "L-1" —when connecting the other VCR to the audio/video

(or S-video) input connectors on the rear panel. Select "F-1" —when connecting the other VCR to the audio/video

(or S-video) input connectors on the front panel. On the VCR

Press CH+/- or push the ADVANCED JOG dial, then turn it to the left or right until "L-1" or "F-1" appears on the display panel. On the Remote

Press AUX and/or CH+/- until "L-1" or "F-1" appears on the display panel.

Select video input connector on recording VCR

When using this VCR as the recording VCR, select the appropriate mode depending on the connector being used (pg. 21). When using S-VIDEO input connector on the front panel, set

"FRONT AUX INPUT" to "S-VIDEO". When using S-VIDEO IN connector on the rear panel, set "REAR AUX INPUT" to "S-VIDEO".

When using VIDEO input connector on the front panel, set "FRONT AUX INPUT" to "VIDEO".

When using VIDEO IN connector on the rear panel, set "REAR AUX INPUT" to "VIDEO".

5 Select edit mode

Set the edit mode to "ON" for the VCRs if such a mode is equipped.

• On this VCR, set "PICTURE CONTROL" to "EDIT" (I pg. 20).

6 Start playback

Press **PLAY** (**>**) on the playback VCR.

Z Start recording

Press **REC** (\bullet) on the recording VCR.

NOTE:

Be sure to select "AUTO" for "PICTURE CONTROL" (or "NORM" when "VIDEO CALIBRATION" is set to "OFF") after you finish dubbing the tapes. (IF pg. 20)

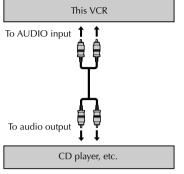
Audio Dubbina

Audio Dubbing replaces a previously recorded normal audio track with a new soundtrack.

Make connections

Connect an audio cable between the VCR's audio input connectors and the audio component's audio output connectors.

- When connecting a monaural audio component, use only the VCR's AUDIO L input connector.
- Audio Dubbing is possible only by using the audio input connectors on the front panel or on the rear panel.



2 Select input location

Select "F-1" ----when connecting the audio component to the audio input connectors on the front panel.

Select "L-1" —when connecting the audio component to the audio input connectors on the rear panel.

On the VCR

Press CH+/- or push the ADVANCED JOG dial, then turn it to the left or right until "L-1" or "F-1" appears on the display panel. On the Remote

Press AUX and/or CH+/- until "L-1" or "F-1" appears on the display panel.

3 Locate start point, and engage Audio Dubbing mode

Load a cassette and press **PLAY** (►) on the VCR. Press **PAUSE** (II) at the point where you want to start dubbing, then press A.DUB.

■ The VCR enters the Audio Dubbing Pause mode. "○" blinks, ">" and "" light up on the display panel.

4 Start dubbing

Engage the Play mode on the audio component, then press PLAY (►) on the VCR. Audio Dubbing begins. "○" blinks, and "≥" lights up on the display panel.

• To pause dubbing, press PAUSE (II). Press PLAY (>) to resume dubbing.

5 End Audio Dubbing

Press **STOP** (■) on the Remote or **STOP/EJECT** (■/▲) on the VCR, then engage the Stop mode of the audio component.

NOTES:

- When monitoring the sound during Audio Dubbing, the normal soundtrack is automatically selected. If you wish to hear the Hi-Fi or mixed sound (Hi-Fi + normal soundtracks), press A.MONITOR to select "NORM HI-FI". (IF pg. 11, "Selecting monitor sound")
- Audio Dubbing stops automatically when the counter reaches "0:00:00", and the VCR enters the Play mode. Check the counter reading before dubbing.
- Audio Dubbing is not possible with a cassette whose record safety tab has been removed.
- When playing back an audio-dubbed tape, press A.MONITOR to select the soundtrack you wish to hear. (pg. 11, "Selecting monitor sound")

Insert Editing and AV Dubbing

Insert Editing:

You can replace a recorded scene with new scene recorded on another tape or with other material. Both the picture and the sound recorded on the Hi-Fi sound track are replaced at the same time

AV Dubbing:

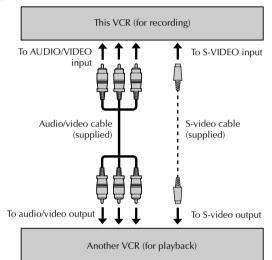
You can perform Audio Dubbing and Insert Editing at the same time. This means that the picture and the sounds recorded on the Hi-Fi sound track and on the normal track are replaced at the same time.

• For AV Dubbing, you can edit pictures and sound using different sources; connect a video source to the video input connector, and an audio source to the audio input connectors.

Make connections

Connect the supplied audio/video cable between the VCR's audio/ video input connectors and the other component's audio/video output connectors.

• Insert Editing and AV Dubbing are possible only by using the audio/video input connectors on the front panel or on the rear panel.



2 Select input location

Select "F-1" —when connecting the other component to the audio/video input connectors on the front panel.

audio/video input connectors on the rear panel.

On the VCR

Press CH+/- or push the ADVANCED JOG dial, then turn it to the left or right until "L-1" or "F-1" appears on the display panel. On the Remote

Press AUX and/or CH+/- until "L-1" or "F-1" appears on the display panel.

3 Select video input connector

Select the appropriate mode depending on the connector being used (🖙 pg. 21).

When using S-VIDEO input connector on the front panel, set "FRONT AUX INPUT" to "S-VIDEO". When using S-VIDEO IN connector on the rear panel, set "REAR

AUX INPUT" to "S-VIDEO".

When using VIDEO input connector on the front panel, set "FRONT AUX INPUT" to "VIDEO".

When using VIDEO IN connector on the rear panel, set "REAR AUX INPUT" to "VIDEO".

4 Select edit mode

Set the edit mode to "ON" for the VCRs if such a mode is equipped.

• On this VCR, set "PICTURE CONTROL" to "EDIT" (IF pg. 20).

5 Locate end point

Load the cassette to be edited into the VCR and press **PLAY** (\blacktriangleright). Press **PAUSE** (**II**) when you find the end of the scene that you want to edit.

Press **C.RESET** so that the counter reading becomes "0:00:00".

• You can also use **FF** (**>>**), the **ADVANCED JOG** dial on the VCR, or the **JOG** dial/**SHUTTLE** ring on the Remote to locate the end point.

1 Locate start point, and engage Insert Editing mode

Use **REW** (**<**), the **ADVANCED JOG** dial on the VCR, or the **JOG** dial/**SHUTTLE** ring on the Remote to rewind the tape. Press **PAUSE** (**II**) when you find the beginning of the scene for which you want to edit, then press **INSERT**.

- The VCR enters the Insert Editing Pause mode. "○", "▷" and "□" light up on the display panel.
- If you want to perform AV Dubbing and replace the picture, Hi-Fi audio soundtrack and normal audio soundtrack all at the same time, after you press **INSERT**, press **A.DUB** also. "\" and "\" blink, and "\" lights up on the display panel.

Z Start editing

Load the source cassette and engage the Play mode of the other component, then press **PLAY** (\blacktriangleright) on the VCR. Insert Editing begins. " \bigcirc " and " \bigcirc " light up on the display panel.

• Insert Editing stops automatically when the counter reaches "0:00:00", and the VCR enters the Play mode.

To stop editing any time during recording

Press **STOP** (\blacksquare) on the Remote or **STOP**/EJECT (\blacksquare / \triangleq) on the VCR, then engage the Stop mode of the other component. Press **REC** (\blacksquare) on the recording VCR.

NOTES:

- Be sure to select "AUTO" for "PICTURE CONTROL" (or "NORM" when "VIDEO CALIBRATION" is set to "OFF") after you finish editing. (II) pg. 20)
- Editing is not possible with a cassette whose record safety tab has been removed.
- The recording speed (SP/EP) is determined by the previous recording to be replaced. If the recording speed changes on the tape to be edited while editing the tape, the inserted picture will be distorted where the recording speed changes.
- When you edit a tape, a small portion of the recording preceding to the editing start point will be erased from the edited tape.

Specifications

GENERAL

ULINLIKAL		
Power requirement	:	AC 120 V∿, 60 Hz
Power consumption		
Power on	:	26 W
Power off	:	2.5 W
Temperature		
Operating	:	5°C to 40°C (41°F to 104°F)
Storage	:	-20°C to 60°C (-4°F to140°F)
Operating position	:	Horizontal only
Dimensions (W x H x D)	:	435 mm x 105 mm x 343 mm (17-3/16" x 4-3/16" x 13-9/16")
Weight	:	4.9 kg (10.8 lbs)
Format	:	S-VHS/VHS NTSC standard
Maximum recording time	ė	
SP	:	210 min. with ST-210 video cassette
EP	:	630 min. with ST-210 video cassette

VIDEO/AUDIO

Signal system	:	NTSC-type color signal and EIA monochrome signal, 525 lines/ 60 fields
Recording/Playback system Signal-to-noise ratio Horizontal resolution		DA-4 (Double Azimuth) head helical scan system 45 dB
VHS S-VHS	-	230 lines 400 lines
Frequency range Normal audio Hi-Fi audio Input/Output	:	70 Hz to 10,000 Hz 20 Hz to 20,000 Hz RCA connectors (IN x 2, OUT x 1)
		S-video connectors (IN x 2, OUT x 1)

TUNER

TONER	
Tuning system	: Frequency-synthesized tuner
Channel coverage	
VHF	: Channels 2–13
UHF	: Channels 14–69
CATV	: 113 Channels
RF output	: Channel 3 or 4 (switchable; preset to Channel 3 when shipped) 75 ohms, unbalanced
TIMER	
Clock reference	: Quartz
Program capacity	: 1-year programmable timer/ 8 programs
Memory backup time	: Approx. 3 min.
ACCESSORIES	
Provided accessories	: Infrared remote control unit,
	"AA" battery x 2,
	Audio/video cable,
	RF cable (F-type),

Specifications shown are for SP mode unless specified otherwise. E. & O.E. Design and specifications subject to change without notice.

Controller

S-video cable (4-pin),

Troubleshooting

Before requesting service, use this chart and see if you can repair the trouble yourself. Small problems are often easily corrected, and this can save you from the trouble of sending your VCR off for repair.

Power

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
The power will not come on.	The AC power cord is disconnected.The Child Lock function is activated.	 Connect the AC power cord. Press and hold POWER for more than 10 seconds to release the Child Lock function. (IF pg. 21)
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" (IF pg. 20). The Child Lock function is activated. 	 Press TIMER (②) to disengage the timer. Press and hold POWER for more than 10 seconds to release the Child Lock function. (I pg. 21)
The Remote will not function.	 The batteries are discharged. The VCR is in the timer recording standby mode. Remote control A/B code is wrong. 	 Replace batteries. Press TIMER (𝕗) to disengage the timer. Reset A/B code. (𝒴 pg. 22)

Playback

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
The tape is running but the picture will not appear.	 If the RF connection (IIF) pg. 6) is used to view the picture, the channel on the TV is set incorrectly. If the AV or S-video connection (IIF) pg. 6) is used to view the picture, the TV receiver is set to the wrong mode. 	

Recording

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
Recording will not start.	There is no cassette loaded.The loaded cassette has had its record safety tab removed.	 Insert a cassette on which the record safety tab is intact. Remove the cassette and cover the hole with adhesive tape, or load a cassette on which the record safety tab is intact.

Timer Recording

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
Timer recording will not work.	 The clock and/or the timer program have been set incorrectly. The timer is not engaged. 	 Set the clock and/or timer program correctly. Press TIMER (②) to engage the timer and make
	 The UCR has not been set up properly. 	 These final (O) to engage the time and make sure that Ø appears on the display panel. Re-perform the set-up procedures. Make sure you have compensated for guide channel and VCR or cable box channel number mismatches. (I) pg. 14)
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.
"O" and "O" on the display panel will not stop blinking.	The timer is engaged but there is no cassette loaded.The loaded cassette has had its record safety tab removed.	 Insert a cassette on which the record safety tab is intact, or cover the hole with the adhesive tape. Remove the cassette and cover the hole with adhesive tape, or load a cassette on which the record safety tab is intact.
"O" blinks for 10 seconds and the timer mode is disengaged.	• TIMER (@) has been pressed when there are no programs in memory, or the timer recording program has not been set correctly.	 Check the programed data and set again if necessary, then press TIMER (<i>O</i>) again.
The power shuts off and "O" and "O" will not stop blinking.	• The tape reaches its end during timer recording.	• 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.
Timer recording begins as scheduled, but the channel is always incorrect.	• Even though you do not use an external cable box or DBS receiver, "CABLE BOX SET" is set to "ON" or "DBS RECEIVER SET" is set to "ON".	• Set "CABLE BOX SET" to "OFF" or "DBS RECEIVER SET" is set to "OFF". (I pg. 9)
You moved, and now VCR Plus+ system does not work properly.	• The receivable stations in the new area are received on different channels than those in the previous area.	• Re-perform the procedure in "Changing VCR Plus+" Setting" (IF pg. 14).

Video Navigation

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
Title screen does not appear for the currently inserted tape.	• The current inserted tape has not been recorded on this VCR.	• Tape information cannot be shown if it has not been recorded on this VCR.
The VCR cannot search for the correct program.	• Two (or more) tape numbers are recorded on one tape.	• 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.
"MEMORY FULL" appears on the screen when you try to start recording.	• The VCR's memory for Video Navigation is full.	• Check the remaining memory (IF pg. 18). If it is full, delete unnecessary Video Navigation information (IF pg. 17).

Other Problems

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
The channel cannot be changed.	• Recording is in progress.	● Press PAUSE (II) to pause the recording, change channels, then press PLAY (►) to resume recording.
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 (IF pg. 7), or perform Manual Clock Set (IF pg. 7).

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TOLL FREE: 1-800-537-5722

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Dear Customer,

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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) 537-5722.					
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.					
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