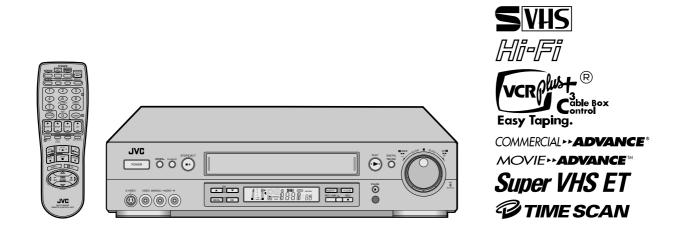
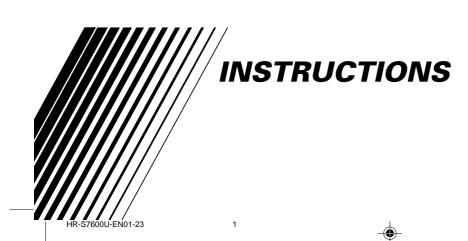


VIDEO CASSETTE RECORDER





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.

LPT0240-001A

Dear Customer,

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

CAUTIONS



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.

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

1. <u>DO NOT</u> place the VCR . .

- ... in an environment prone to extreme temperatures or humidity.
- ... in direct sunlight.
- ... in a dusty environment.
- ... in an environment where strong magnetic fields are generated.
- ... on a surface that is unstable or subject to vibration.
- 2. DO NOT block the VCR's ventilation openings.
- 3. DO NOT place heavy objects on the VCR or remote control.
- 4. <u>DO NOT</u> place anything which might spill on top of the VCR or remote control.
- 5. AVOID violent shocks to the VCR during transport.

****MOISTURE CONDENSATION**

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

****ABOUT HEAD CLEANING**

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

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

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

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

MOVIE ADVANCE[™] and COMMERCIAL ADVANCE[©] are trademarks of SRT, Inc. A Jerry Iggulden invention licensed in association with Arthur D. Little Enterprises, Inc.



- 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.
- As an ENERGY STAR[®] Partner, JVC has determined that this product or product model meets the ENERGY STAR[®] guidelines for energy efficiency.

IMPORTANT PRODUCT SAFETY INSTRUCTIONS

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

ATTENTION:

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

INSTALLATION

1. Grounding or Polarization

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

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

(B) Your product may be equipped with a 3-wire grounding-type plug, a plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature.

If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.

2. Power Sources

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

3. Overloading

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

4. Power Cord Protection

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

5. Ventilation

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

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

6. Wall or Ceiling Mounting

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

ANTENNA INSTALLATION INSTRUCTIONS

1. Outdoor Antenna Grounding

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

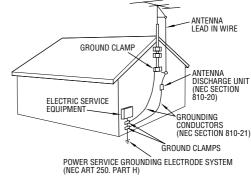
2. Lightning

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

3. Power Lines

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

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



NEC - NATIONAL ELECTRICAL CODE

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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.



PORTABLE CART WARNING

(Symbol provided by RETAC)

3. Water and Moisture

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

4. Object and Liquid Entry

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

5. Attachments

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

6. Cleaning

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

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.

4

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

3. Replacement Parts

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

4. Safety Check

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

HOW TO USE THIS INSTRUCTION MANUAL

- All major sections and subsections are listed in the Table Of Contents on page 5. Use this when searching for information on a specific procedure or feature.
- The Index on pages 69–72 lists frequently-used terms, and the number of the page on which they are used or explained in the manual. This section also illustrates the controls and connections on the front and rear panel, the front display panel and the remote control.
- The CF mark signals a reference to another page for instructions or related information.
- Operation buttons necessary for the various procedures are clearly indicated through the use of illustrations at the beginning of each major section.

BEFORE YOU INSTALL YOUR NEW VCR . . .

- ... please read the sections/literature listed below.
- "Cautions" on page 2
- "Important Products Safety Instructions" on the previous pages

CONTENTS

NSTALLING YOUR NEW VCR	6
Connections	6
Basic Connections	6
S-Video Connection	7
NITIAL SETTINGS	8
Plug & Play	8
Language	10
Clock	
Preparation	
Semi-Auto Manual	
Tuner	
Set Receivable Channels	
Add Or Delete A Channel	15
Cable Box Control	
Set Cable Box Output Channel &	
Cable Box Brand	17
DBS Receiver Control	
Situate And Connect Controller Set DBS Receiver Output Channel &	
DBS Receiver Brand	20
CIMPLE PLAYBACK AND	20
	22
RECORDING	22
Simple Playback	
Simple Recording	
LAYBACK AND RECORDING	
FEATURES	24
FEATURES Playback Features	
FEATURES Playback Features Still Picture/Frame-By-Frame Playback	
FEATURES Playback Features Still Picture/Frame-By-Frame Playback Slow Motion (Pro-Slow)/Reverse Slow Motion/	 24
FEATURES Playback Features Still Picture/Frame-By-Frame Playback Slow Motion (Pro-Slow)/Reverse Slow Motion/ Reverse Motion Playback	24
FEATURES Playback Features Still Picture/Frame-By-Frame Playback Slow Motion (Pro-Slow)/Reverse Slow Motion/	24 24 24 25
FEATURES Playback Features Still Picture/Frame-By-Frame Playback Slow Motion (Pro-Slow)/Reverse Slow Motion/ Reverse Motion Playback Index Search High-Speed Search Manual Tracking	24
FEATURES Playback Features Still Picture/Frame-By-Frame Playback Slow Motion (Pro-Slow)/Reverse Slow Motion/ Reverse Motion Playback Index Search High-Speed Search Manual Tracking Picture Control	24 24 25 25 25 25 25 26
FEATURES Playback Features Still Picture/Frame-By-Frame Playback	24 24 25 25 25 25 26 27
FEATURES Playback Features Still Picture/Frame-By-Frame Playback Slow Motion (Pro-Slow)/Reverse Slow Motion/ Reverse Motion Playback Index Search High-Speed Search Manual Tracking Picture Control	24 24 25 25 25 25 26 27 27 27
FEATURES Playback Features Still Picture/Frame-By-Frame Playback Slow Motion (Pro-Slow)/Reverse Slow Motion/ Reverse Motion Playback Index Search Manual Tracking Picture Control Select The Soundtrack Video Stabilizer Instant ReView Repeat Playback Repeat Playback	24 24 25 25 25 25 26 27 27 27 27 28 28
FEATURES Playback Features Still Picture/Frame-By-Frame Playback Slow Motion (Pro-Slow)/Reverse Slow Motion/ Reverse Motion Playback Index Search High-Speed Search Manual Tracking Picture Control Select The Soundtrack Video Stabilizer Instant ReView Repeat Playback Counter Reset	24 24 25 25 25 26 27 27 27 27 28 28 28 28
FEATURES Playback Features	24
FEATURES Playback Features Still Picture/Frame-By-Frame Playback Slow Motion (Pro-Slow)/Reverse Slow Motion/ Reverse Motion Playback Index Search High-Speed Search Manual Tracking Picture Control Select The Soundtrack Video Stabilizer Instant ReView Repeat Playback Counter Reset Tape Position Indicator Next-Function Memory	24
FEATURES Playback Features Still Picture/Frame-By-Frame Playback Slow Motion (Pro-Slow)/Reverse Slow Motion/ Reverse Motion Playback Index Search Index Search High-Speed Search Manual Tracking Picture Control Select The Soundtrack Video Stabilizer Instant ReView Repeat Playback Counter Reset Tape Position Indicator Next-Function Memory Superimpose AV COMPU LINK Playback	24
FEATURES Playback Features Still Picture/Frame-By-Frame Playback	24
FEATURES Playback Features Still Picture/Frame-By-Frame Playback	24
FEATURES Playback Features Still Picture/Frame-By-Frame Playback	24
FEATURES Playback Features Still Picture/Frame-By-Frame Playback	24
FEATURES Playback Features Still Picture/Frame-By-Frame Playback Slow Motion (Pro-Slow)/Reverse Slow Motion/ Reverse Motion Playback Index Search Manual Tracking Picture Control Select The Soundtrack Video Stabilizer Instant ReView Repeat Playback Counter Reset Tape Position Indicator Next-Function Memory Superimpose AV COMPU LINK Playback Movie Advance Commercial Advance Time Scan Variable-Speed Search/Reverse Play Skip Search Time Scan Audio	24 24 25 25 25 25 26 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28
FEATURES Playback Features Still Picture/Frame-By-Frame Playback Slow Motion (Pro-Slow)/Reverse Slow Motion/ Reverse Motion Playback Index Search Manual Tracking Picture Control Select The Soundtrack Video Stabilizer Instant ReView Repeat Playback Counter Reset Tape Position Indicator Next-Function Memory Superimpose AV COMPU LINK Playback Movie Advance Commercial Advance Variable-Speed Search/Reverse Play Skip Search Time Scan Audio Digital TBC/NR	24 24 25 25 25 25 26 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28
FEATURES Playback Features	24
FEATURES Playback Features	24 24 25 25 25 25 26 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28
FEATURES Playback Features	24 24 25 25 25 25 26 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28

	EN
Decording Fosteres	40
Recording Features Record One Program While Watching Another	
Display Elapsed Recording Time	
Display Tape Remaining Time	
S-VHS (Super VHS), S-VHS ET and VHS	
Super VHS ET Stereo And SAP (Second Audio Program)	
To Record SAP Programs	
Hi-Fi Audio Recording Level Control	
T	
	45
VCR Plus+ Timer Programming	
VCR Plus+ Setup Express Timer Programming	4/ 40
Check, Cancel And Revise Programs	51
Auto SP→EP Timer	52
Auto Timer	
Instant Timer Recording (ITR) Automatic Satellite Program Recording	54
DITING	55
Edit To Or From Another VCR	
Edit From A Camcorder	
Insert Editing	
Audio Dubbing	
C	
PECIAL FEATURES	61
TV Multi-Brand Remote Control	
Cable Box Multi-Brand Remote Control DBS Receiver Multi-Brand Remote Control	
Child Lock	
Control Two JVC VCRs	
T	
ROUBLESHOOTING	65
Power	
Tape Transport	
Playback Recording	65 65
Timer Recording	
Other Problems	
•	
UESTIONS AND ANSWERS	68
Playback	
Recording	
Timer Recording	
NDEX	69
List Of Terms	
Front View	
Rear View	
Front Display Panel Remote Control	
Specifications	70
- FECIFICATIONS	73
E	
OR SERVICING (Only in U.S.A.)	74
WARRANTY (Only in U.S.A.)	75
- AKKANI I (UNIY IN U.S.A.)	/ 5

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EN	INSTALLING YOUR NEW
	Basic Connections
Connections	CHECK CONTENTS
Antenna or Cable ANTENNA IN	Make sure the package contains all of the accellisted in "SPECIFICATIONS" (IF pg. 73).
(Antenna or Cable input)	SITUATE VCR
Coaxial Cable	Place the VCR on a stable, horizontal surface.
Flat Feeder	2
AC Outlet Matching Transformer	CONNECT VCR TO TV
AC Power Cord (Not supplied)	The connection method you use depends on the TV you have.
	RF Connection • To Connect To A TV With NO AV Input Term
	 a- Disconnect the TV antenna from the TV. b- Connect the TV antenna cable to the ANT
	IN jack on the rear of the VCR. c – Connect the supplied RF cable between th
Back of VCR	OUT jack on the rear of the VCR and the antenna terminal. Set TV on CH3 or CH4
	sponding to the CH3 – CH4 switch setting back of the VCR.
Audio/Video Cable (supplied)	 AV Connection To Connect To A TV With AV Input Terminals a- Connect the antenna, VCR and TV as shown
RF Cable (supplied)	the illustration. b – Connect an Audio/Video Cable between the
	OUT and VIDEO OUT jacks on the rear of t and the AV IN jacks on the TV. Set your TV
	input mode or A/V input mode. Refer to the Instruction Manual.
75 ohm terminal	S-VIDEO Connection • If you have a TV with S-VIDEO input termina
TV Back of VCR	"S-VIDEO Connection" on page 7.
Снз	CONNECT VCR TO POWER SOURCE
	Connect the power plug to an AC outlet.
\longrightarrow	The clock and tuner channels will automatic set when the antenna is connected and when
	is first connected to the VCR (IIF pg. 8). (If "Auto" or "CH" is displayed on the front dis
IOTES:	panel before the VCR is powered on, the clo- tuner channels are being set automatically. V

- The VCR channel is the channel on the TV which will display the audio and video signals from the VCR. The VCR's CH3-CH4 switch, on the back of the VCR, sets the VCR channel to CH3 or CH4.
- The CH3–CH4 switch is preset to the CH3 position. Set to CH4 if CH3 is used for broadcasting in your area and set the channel on the TV to correspond to the VCR's CH3-CH4 switch setting.
- If you have connected the VCR to the TV using the RF connector, you may need to press CH UP and then CH DOWN on the TV when switching between the TV and VCR input modes, to maintain good picture quality.
- Even if you are using AV cables to connect your VCR to your TV, you must also connect it using the RF cable. This will ensure that you can record one show while watching another (🖙 pg. 40).
- For full identification of the VCR's rear panel, refer to the Index (REAR VIEW 🖙 pg. 71).

VCR

ressories

the type of

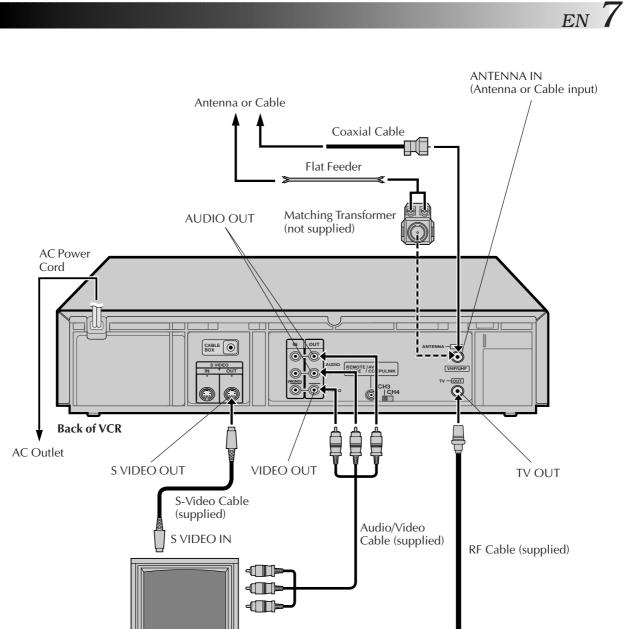
- minals . . .
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- ls . . . own in
- he AUDIO the VCR / in video the TV
- nals, see
- cally be en the AC lisplay

banel before the VCR is powered on, the clock and tuner channels are being set automatically. Wait for the time to be displayed on the front display panel before powering on the VCR.)

FINAL PREPARATION FOR USE

Power on the VCR and if you are connected to the TV using the RF connector, select the VCR channel (3 or 4) by setting the switch on the rear of the VCR as shown in the illustration.

You can now perform simple playback (IF pg. 22) or simple recording ($\square pg. 23$).



75 ohm terminal

NOTES:

To make the most of the Super VHS picture performance we recommend that you use the supplied S-VIDEO cable to connect your VCR to a TV with an S-VIDEO input connector.
To operate the VCR with your TV using the S-VIDEO connection.

ΤV

- To operate the VCR with your TV using the S-VIDEO connection, set your TV to the AV mode using the TV's remote control.
- You can also use the **TV/VCR** button on the VCR's remote control to set your TV to the AV mode. (IF pg. 61)

S-VIDEO Connection

CONNECT VCR TO TV

- a- Connect both the RF cable and the AV cables to the TV as explained in step 3 of "Basic Connections" (IP pg. 6).
 b- Connect the S-Video cable between the S-VIDEO OUT
- b– Connect the S-Video cable between the S-VIDEO OUT jack on the rear of the VCR and the S-VIDEO IN jack on the TV.

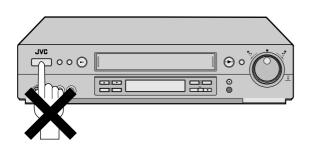
INITIAL SETTINGS

Plug & Play

Auto Clock Set/Auto Tuner Set

ATTENTION

If you use a cable box, Plug & Play will not function; set the clock and tuner channels manually. ($\Box P$ pg.11 – 15)



IMPORTANT

"Auto" blinks

- Don't press any buttons on the VCR or remote while Plug & Play is in progress.
- If you perform Plug & Play successfully, there's no need to perform the Clock (IP pg. 11) and Tuner (IP pg. 14) procedures. If, however, you want to add or delete channels, refer to "Add Or Delete A Channel" on page 15.

The Plug & Play function sets the clock and tuner channels automatically when power is first connected to the VCR. The antenna cable must be connected for the Plug & Play function.

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

PLUG & PLAY SETUP

Connect the antenna cable to the VCR (IFF pg. 6). Then connect the VCR's power plug to an AC outlet. Do not power on the VCR. The clock and tuner channels will be set automatically.

NOTES:

- Auto clock set is performed first. The auto clock set function scans all the channels received by your VCR to find the Host Channel and then sets the clock. "Auto" blinks on the front display panel during Auto clock set.
- Auto channel set is performed next. The auto channel set function scans all the channels that are receivable by your VCR. It then automatically assigns each receivable channels to the CH▲▼ (+/–) buttons. It skips non-receivable channels. During auto channel set the channel numbers are displayed as they are scanned and set.
- When Plug & Play has been completed successfully the correct time is displayed.
- If an incorrect time or "- --- -- " appears on the display panel, see "What To Do If Plug & Play Has Failed" on next page.



Clock Set Duri The as th

During Auto Channel Set The channel numbers are displayed as they are scanned and set. **Plug & Play Completed** The current time (including AM/PM) is displayed.

* If an incorrect time or "--:--" appears on the display panel, see "What To Do If Plug & Play Has Failed" on next page.

8

INFORMATION

• If "AUTO CLOCK" is set to "ON" at the Clock Set screen on page 12, the clock will be adjusted automatically by the host channel every hour on the hour (except for 11:00 PM, midnight, 1:00 AM and 2:00 AM) by the incoming PBS channel clock setting data. (This automatic clock adjustment can only be performed when the VCR's power is turned off. The clock will be adjusted on the hour based on the time displayed on the VCR, not on the actual real time.) The default setting of "AUTO CLOCK" is "ON".

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• If the memory backup fails, because of a power outage or because the AC was removed from the VCR, Plug & Play will be performed when power is restored to the VCR.

What To Do If Plug & Play Has Failed

- If an incorrect time is displayed on the front display panel, you may be receiving the clock setting data of a PBS channel from an adjacent time zone, or an incorrect PBS channel from a cable TV system. In this case, perform the Semi-Auto (IFP pg. 12) or
- an adjacent time zone, or an incorrect PBS channel from a cable TV system. In this case, perform the Semi-Auto (III) pg. 12) or Manual Clock Set (III) pg. 13) procedure. Auto channel set has already taken place and it need not be set again. If "----" appears on the display, your antenna cable may not be connected to the VCR or there may not be a Host PBS signal available in your area. Ensure that the antenna cable is connected correctly. Then power on and power off the VCR; the Plug & Play function will be automatically reactivated and "Auto" will be displayed on the VCR's front panel. If Plug & Play is not performed but the antenna cable is connected correctly, perform the Manual Clock Set procedure (III) pg. 13). Auto channel set has not yet taken place, so please also perform the "Set Receivable Channels" procedure (III) pg. 14).

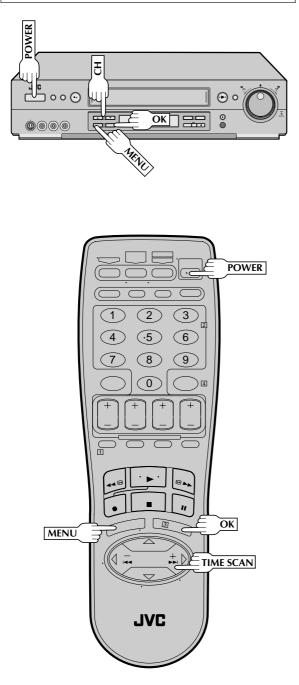
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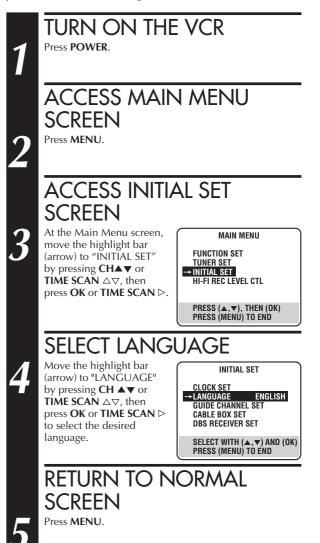
INITIAL SETTINGS (cont.)

Language

Turn on the TV and select the VCR channel 3 or 4 (or AV mode).



This VCR offers you the choice to view on-screen messages in English, Spanish or French (not including messages superimposed on the TV picture). Select the desired language using this procedure. The default setting is "ENGLISH".



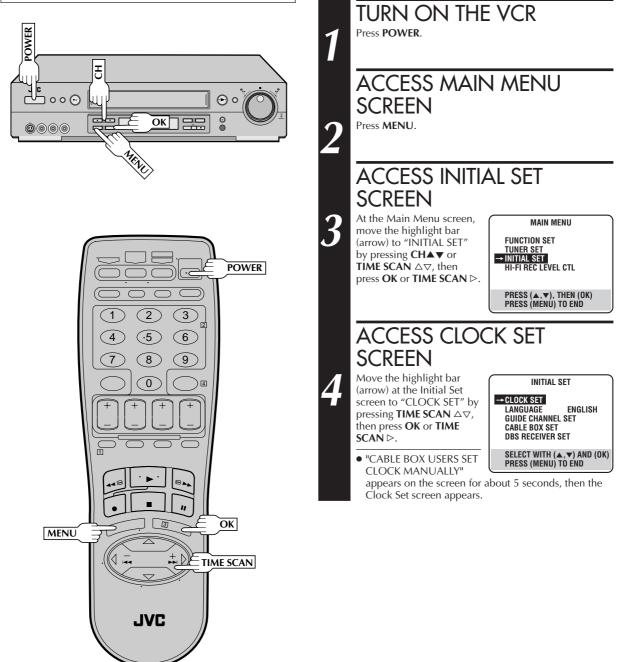
Perform clock setting only if the clock has not been set correctly

by the Plug & Play function or you use a cable box. Access the Clock Set screen to perform the Semi-Auto or Manual clock setting procedure. Each procedure starts from step **5**. If you use a cable box, set the clock manually. (IFP pg. 13)

Preparation

Clock

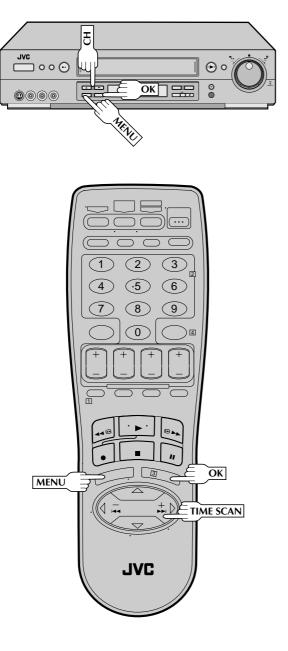
Turn on the TV and select the VCR channel 3 or 4 (or AV mode).



INITIAL SETTINGS (cont.)

Semi-Auto

You can change the Host Channel/D.S.T. /Time Zone setting manually.



SET AUTO CLOCK TO ON At the Clock Set screen, CLOCK SET press OK or TIME SCAN ▷ TIME DATE YEAR 1:00PM 18:24 ≥ 99 FRI AUTO CLOCK: ON HOST CH #AUTO (CATV D.S.T. : AUTO TIME ZONE : AUTO PRESS (▲, ▼), THEN (OK) PRESS (MENU) TO END repeatedly to move the highlight bar to "AUTO CLOCK["] and press CH ▲▼ (CATV) or TIME SCAN $\triangle \nabla$ to set to "ON". **a**– To select the Host Channel — go to step 6 **b**– To select the D.S.T. mode — go to step **7** c- To select the Time Zone — go to step 8 NOTE: The time that has been set previously will be erased when "AUTO CLOCK", "HOST CH", "D.S.T." or "TIME ZONE" setting is changed.

SELECT HOST CHANNEL

You can either select "AUTO" or enter a PBS channel number. Move the highlight bar to "HOST CH" by pressing **OK** or **TIME SCAN** \triangleright , then press **CH** \blacktriangle or **TIME SCAN** \bigtriangleup to set to "AUTO" or the desired PBS channel number.

NOTE:

h

There are some PBS channels that do not transmit clock setting data.

SELECT D.S.T. MODE

You have three choices:

- a- Select "AUTO" and the adjustment to your VCR's clock will be made according to the incoming signal from the host channel.
- **b** Select "ON" and the adjustment will be made based on the clock itself.
- c- Select "OFF" if Daylight Saving Time does not apply to you.

Nove the highlight bar to "D.S.T." by pressing **OK** or **TIME SCAN** \triangleright , then press **CH** \blacktriangle **v** or **TIME SCAN** $\triangle \nabla$ to select the desired mode.

****AUTO DAYLIGHT SAVING TIME**

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

- ... on the first Sunday of April at 2:00 AM, the clock is adjusted to 3:00 AM.
- ... on the last Sunday of October at 2:00 AM, the clock is adjusted to 1:00 AM.

SELECT TIME ZONE You can select the time zone automatically or manually. Move the highlight bar to "TIME ZONE" by pressing OK or TIME SCAN \triangleright , then press CH $\blacktriangle \lor$ or TIME SCAN $\triangle \bigtriangledown$ to select "AUTO" or the desired time zone.



NOTE:

If an incorrect time is displayed by the Plug & Play function, you may be receiving the clock setting data of a PBS channel from an adjacent time zone or from an incorrect PBS channel from a cable TV system. If you selected "AUTO" for the host channel in step **6**, be sure to select the correct time zone manually.

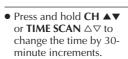


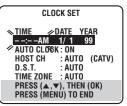
IMPORTANT

Turn the VCR off after performing the Semi-Auto Clock Set procedure. "Auto" will appear on the front display panel when the clock is being set. The current time will appear automatically when the clock is set.

Manual

SET TIME Press CH ▲▼ or TIME SCAN △▽ until the desired time appears, then press OK or TIME SCAN





 When the time is entered manually, "AUTO CLOCK" will be automatically set to "OFF", and "HOST CH" and "TIME ZONE" will disappear.

SET DATE

Press **CH** \blacktriangle **v** or **TIME SCAN** $\triangle \bigtriangledown$ until the desired date appears, then press **OK** or **TIME SCAN** \triangleright .

• Press and hold **CH** ▲▼ or **TIME SCAN** △▽ to change the date by 15-day increments.

SET YEAR

Press **CH** \blacktriangle or **TIME SCAN** $\triangle \bigtriangledown$ until the desired year appears, then press **OK** or **TIME SCAN** \triangleright twice.

SELECT D.S.T. MODE

Press **CH** \blacktriangle or **TIME SCAN** $\triangle \nabla$ to select the desired mode.

- a- Set to "ON" so that the adjustment to your VCR's clock will be made on the clock itself.
- **b** Set to "OFF" if Daylight Saving Time does not apply to you.

START CLOCK

) Pre

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Press MENU and normal screen appears.

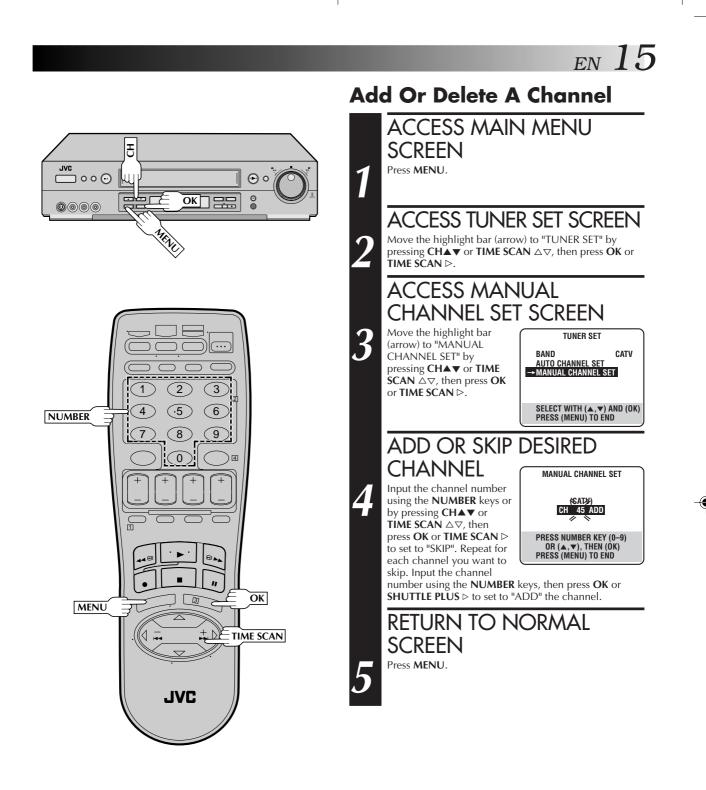
To Make Corrections

Press **OK** or **TIME SCAN** \triangleright until the item you want to change blinks, then press **CH** $\blacktriangle \lor$ or **TIME SCAN** $\triangle \bigtriangledown$.

4_{EN}	INITIAL SETTINGS (cont.)
•	Set Receivable Channels
furn on the TV and select the VCR channel 3 or 4 (or AV	TURN ON THE VCR Press POWER.
	ACCESS MAIN MENU SCREEN
	ACCESS TUNER SET SCREEN
	Begin Scan △▽, then press OK or TIME SCAN ▷. Move the highlight bar (arrow) to "TUNER SET" by pressing CH▲▼ or TIME SCAN △□, then press OK or TIME SCAN ▷.
	PRESS (▲,▼), THEN (OK) PRESS (MENU) TO END
POWER 1 2 3 4 5 6	PERFORM AUTO CHANNEL SET Move the highlight bar (arrow) to "AUTO CHAN- NEL SET" by pressing CHA▼ or TIME SCAN △▽, then press OK or TIME
	SCAN ▷. • Receivable channels in your area are automatically assigned to
(+ + + + + + E CH+/-	the CH▲▼ (+/-) buttons, and non-receivable channels are skipped. SCANNING
	• At the end of Auto Channel Set, "SCAN COMPLETED" appears
	 on screen. If the scan was unsuccessful, "SCAN COMPLETED- NO SIGNAL" appears on screen. Check the connections and start again.
JVC	RETURN TO NORMAL SCREEN Press MENU.
	5

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

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16 EN

INITIAL SETTINGS (cont.)

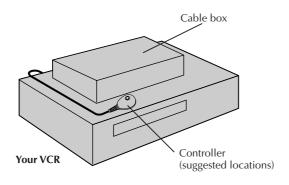
Cable Box Control

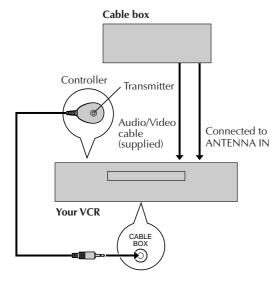
Suggested Location

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

ATTENTION:

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





This procedure is required if you receive your TV channels through a cable box (descrambler). The Controller allows the VCR to automatically switch the cable box channel during timer-recording. The Controller is effective for recording shows that have been programmed using VCR Plus+ (II) pg. 45) or Express Timer Programming (II) pg. 49).

Situate And Connect Controller



transmitter and the cable box's remote sensor is unobstructed.

ATTACH CONTROLLER

Fasten securely using the supplied adhesive strip.

CONNECT CABLE BOX TO VCR

The connection method depends on the type of cable box you have.

If your cable box has AUDIO and VIDEO OUT connectors . . .

... connect them to the AUDIO and VIDEO IN connectors on your VCR. Set the VCR to channel "L-1" for the rear AUDIO and VIDEO IN connectors, or channel "F-1" for the front AUDIO and VIDEO IN connectors to use the cable box.

If your cable box doesn't have AUDIO and VIDEO OUT connectors . . .

 \ldots connect the antenna output connector on the cable box to the ANTENNA IN connector on the rear of your VCR.

Set the VCR tuner to the same channel as the cable box RF output (see page 17 also).

NOTE:

When connecting your cable box refer to its instruction manual.

CONNECT CONTROLLER

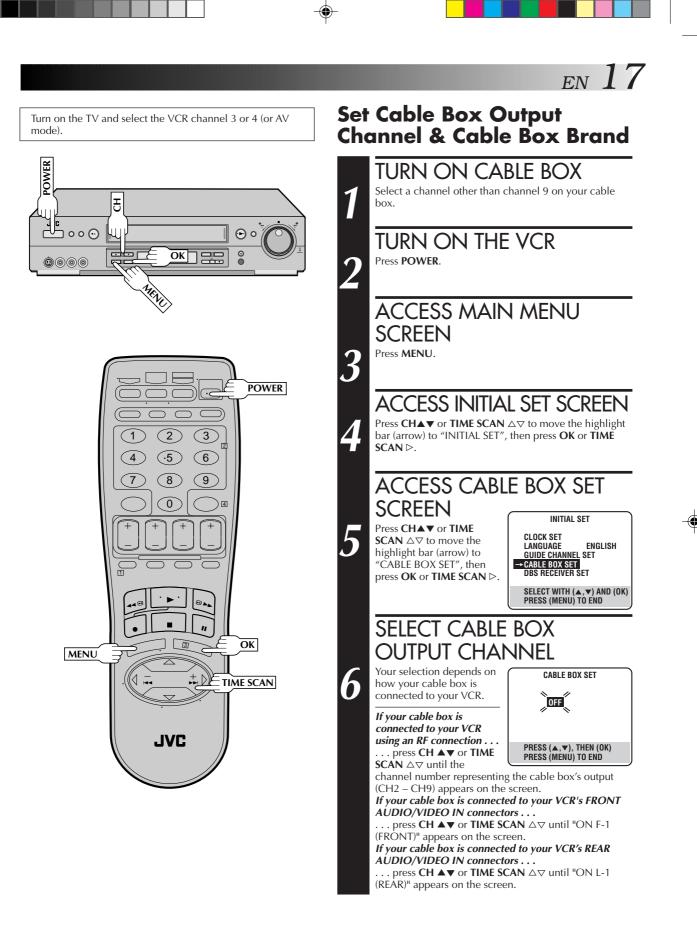
Connect to the CABLE BOX connector on your VCR.

About Your Cable Box

This VCR has two separate methods to control your Cable Box.

- The VCR's Wireless Remote Control Unit can control your Cable Box.
- This eliminates the need for a separate Cable Box Remote Control Unit.
- The VCR's Controller can also control your Cable Box. This allows the VCR to change your Cable Box's channel number during timer recording.

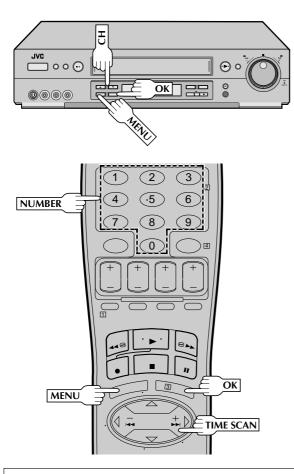
Each method must be set up separately. To set up the VCR's Remote Control unit, refer to page 62. To set up the Controller go to page 17.



CONTINUED ON NEXT PAGE

18 EN

INITIAL SETTINGS (cont.)



INFORMATION

When the VCR's clock has not been set (with AUTO CLOCK set to ON), if you press **OK** in step **7**, "CABLE BOX USERS SET CLOCK MANUALLY" will be displayed on the screen for about 5 seconds, then the Clock Set screen will appear; perform the manual clock setting procedure on page 13. If you press **MENU** after the clock has been set, the Cable Box Brand Set screen appears.

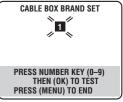
NOTES:

- Although the supplied Controller is compatible with many different cable box brands, it is possible that it will not work with your cable box.
- If your cable box doesn't respond to any code between 1 and 25, you can't use the Controller to change cable box channels. In this case, make sure to leave the cable box turned on and tuned to the proper channel before the scheduled start of timer recording. Please contact your cable company about the possibility of exchanging your current cable box with one that is compatible with your VCR.
- The VCR can only change the cable box channel through the Controller during timer recording.
- If your cable box is one that can't be operated with a remote control (because it has no remote sensor), you can't use the Controller to change its channels. Make sure to leave the cable box turned on and tuned to the proper channel before the scheduled start of timer recording.
- If the VCR's memory backup expires because of a power failure, set the cable box output channel and brand again.
- For customers in U.S.A.: If you are unable to set the Controller, please contact JVC toll free at 1-800-252-5722.

ACCESS CABLE BOX BRAND SET SCREEN Press OK.

ENTER CABLE BOX BRAND

Press the appropriate **NUMBER** keys to enter the Cable Box Code from the CABLE BOX BRAND LIST shown below, then press **OK**.



• If the cable box's channel changes to 9, setting is complete. Press **OK** and "CABLE BOX CONTROL IS ON" appears on the screen for about 5 seconds, then it returns to the normal screen.

 If the cable box's channel does not change to 9, press CH ▲▼ or TIME SCAN △▽ to move the highlight bar (arrow) to "NO", then press OK. By entering another code, repeat step 8 until the cable box's channel changes to 9.

• 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 between 1 and 25.

CABLE BOX BRAND LIST

BRAND	CODE
ARCHER	1, 5, 17
CABLETENNA	1, 17
CABLEVIEW	15, 16, 17, 21, 25
CITIZEN	15, 16, 17, 21, 25
CURTIS	2, 8
DIAMOND	1, 17
EASTERN	19
GC BRAND	15, 16, 17, 21, 25
GEMINI	15
GENERAL INSTRUMENTS	1, 4, 6, 11, 12, 15
HAMLIN	10, 18, 19, 23
JASCO	15
JERROLD	1, 4, 6, 11, 12, 15
NOVAVISION	2, 8
OAK	7, 20
PANASONIC	13, 14
PULSER	15, 16, 17, 21, 25
RCA	13, 14
REGAL	10, 18, 19, 23
REGENCY	19
Rembrandt	1, 16, 17
SAMSUNG	5, 16, 24
SCIENTIFIC ATLANTA	2,8
SIGMA	7,20
SLMARX	5, 16, 17, 24, 25
SPRUCER	13, 14
STARGATE	5, 15, 16, 17, 21, 24, 25
TELEVIEW	5, 16, 24
TOCOM	1, 4, 16
	1, 17
UNIVERSAL	16, 17, 25
VIDEOWAY ZENITH	3, 9, 22
ZEINIIA	3, 9, 22

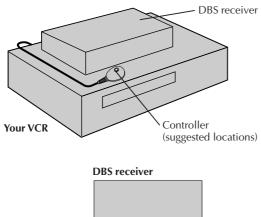
DBS Receiver Control

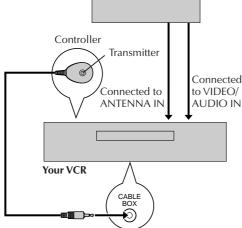
Suggested Location

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

ATTENTION:

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





About Your DBS Receiver

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

- The VCR's Wireless Remote Control Unit can control the power and channel functions of your DBS Receiver. For these functions, the need for a separate DBS Receiver Control Unit is eliminated.
- The VCR's Controller can also control your DBS Receiver. This allows the VCR to change your DBS receiver's channel number during timer recording.

Each method must be set up separately. To set up the VCR's Remote Control unit, refer to page 63. To set up the Controller go to page 20.

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

NOTES:

- The VCR can automatically change the DBS Receiver channels using the controller when the VCR has been programmed using Express Timer Programming (IIF) pg. 49). Because satellite programming does not use PlusCode; the
- Controller can not change the DBS Receiver channels during VCR Plus+ Timer Recording. • If a cable box is also used it is recommended that you connect the DBS receiver to your VCR/e AAV inputs and the
- connect the DBS receiver to your VCR's A/V inputs and the cable box to your VCR's antenna input.

Situate And Connect Controller



transmitter and the DBS receiver's remote sensor is unobstructed.

ATTACH CONTROLLER

Fasten securely using the supplied adhesive strips.

CONNECT DBS RECEIVER TO VCR

The connection method depends on the type of DBS receiver you have.

If your DBS receiver has AUDIO and VIDEO OUT connectors . . .

... connect them to the AUDIO and VIDEO IN connectors on your VCR. Set the VCR to channel "L-1" for the rear AUDIO and VIDEO IN connectors, or channel "F-1" for the front AUDIO and VIDEO IN connectors to use the DBS receiver.

If your DBS receiver doesn't have AUDIO and VIDEO OUT connectors . . .

... connect the antenna output connector on the DBS receiver to the ANTENNA IN connector on the rear of your VCR.

Set the VCR's tuner to the same channel as the DBS receiver's RF output. (See page 20 also.)

NOTE:

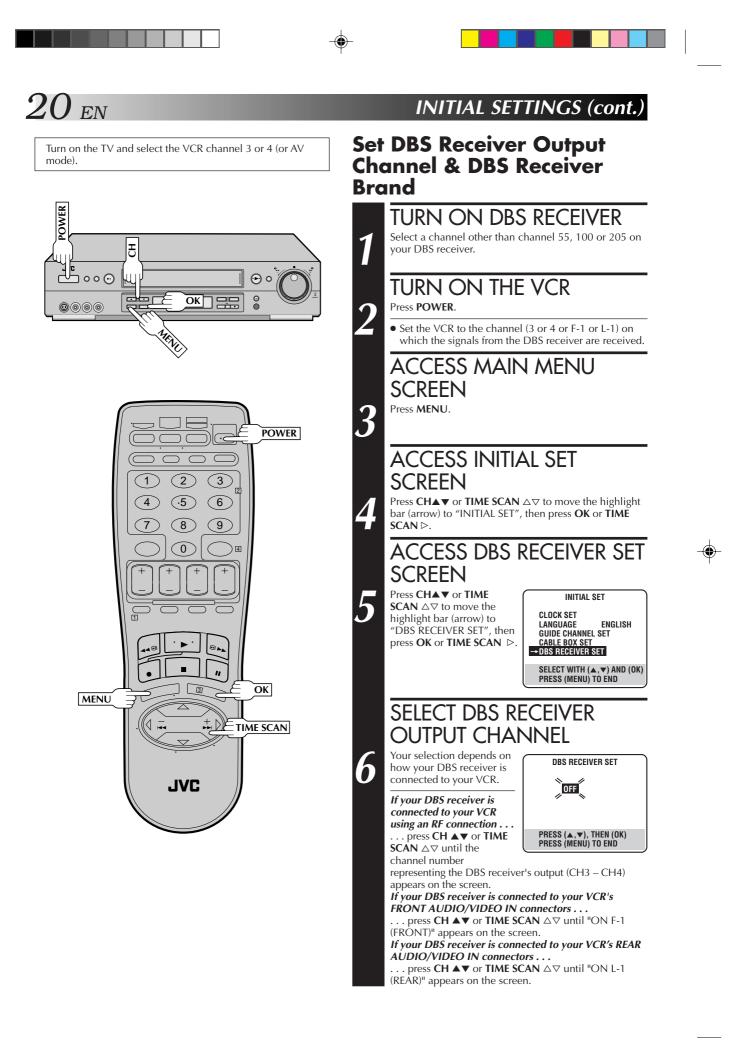
When connecting your DBS receiver refer to its instruction manual.

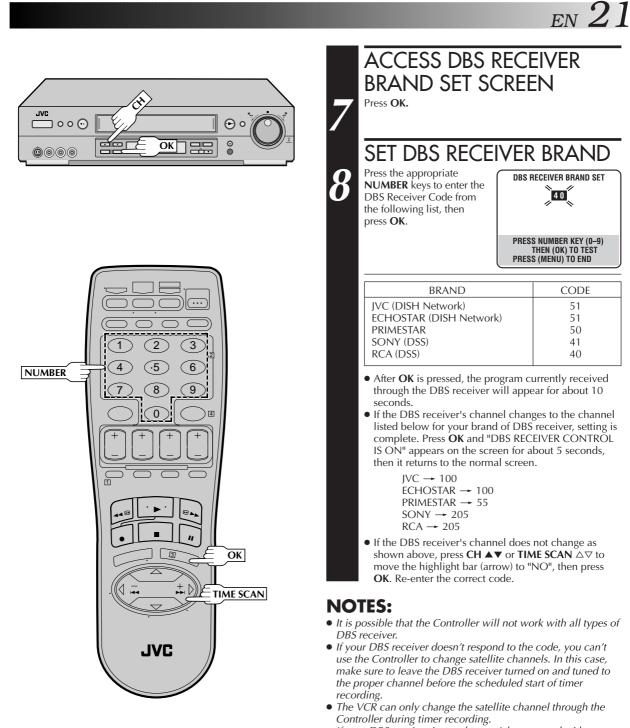
CONNECT CONTROLLER TO VCR



Connect to the CABLE BOX connector on your VCR.





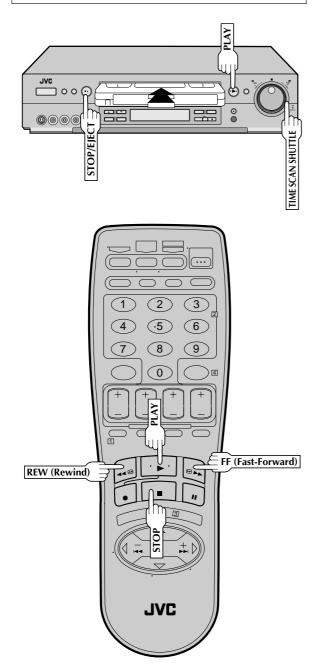


- If your DBS receiver is one that can't be operated with a remote control (because it has no remote sensor), you can't use the Controller to change its channels. Make sure to leave the DBS receiver turned on and tuned to the proper channel before the scheduled start of timer recording.
- For customers in U.S.A.: If you are unable to set the Controller, please contact JVC toll free at 1-800-252-5722.

SIMPLE PLAYBACK AND RECORDING

Simple Playback

Turn on the TV and select the VCR channel 3 or 4 (or AV mode).



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. Don't apply too much pressure when inserting.

- The VCR's power comes on automatically.
- The counter is automatically reset to "0:00:00".
- If the cassette's record safety tab has been removed, playback begins automatically.

FIND PROGRAM START POINT

If the tape is advanced past the start point, press **REW** or turn the **TIME SCAN SHUTTLE** ring to the left. To go forward, press **FF** or turn the **TIME SCAN SHUTTLE** ring to the right.

START PLAYBACK

B Pre scre

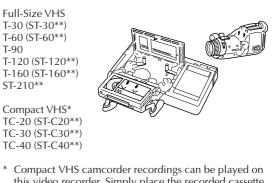
Press **PLAY**. "VIDEO CALIBRATION" appears on the screen (when VIDEO CALIBRATION is set to "ON" III" pg. 38).

STOP PLAYBACK



Press **STOP** or **STOP/EJECT**. Then press **STOP/EJECT** to remove the cassette.

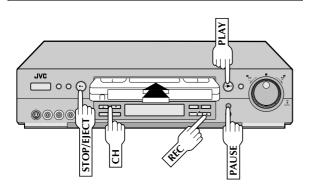
Usable cassettes

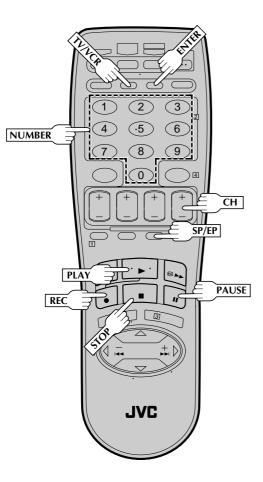


- Compact VHS camcorder recordings can be played on this video recorder. Simply place the recorded cassette into a VHS Cassette Adapter and it can be used just like any full-sized VHS cassette.
- ** This VCR can record on regular VHS and Super VHS cassettes. While only VHS signals can be recorded on regular VHS cassettes, both VHS and Super VHS signals can be recorded and played back using Super VHS cassettes.

Simple Recording

Turn on the TV and select the VCR channel 3 or 4 (or AV mode).





LOAD A CASSETTE

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

SELECT RECORDING CHANNEL

Press **CH**▲▼ (+/–). Or press the appropriate **NUMBER** keys, then press **ENTER**. (The channel changes after a few seconds whether you press **ENTER** or not.)

• If you use the RF connection, by pressing the **TV/VCR** button, select VCR mode to view the program to be recorded.

SET TAPE SPEED

Press **SP/EP** to set the recording speed.

START RECORDING

Press and hold **REC** and press **PLAY** on the remote control, or press **REC** on the VCR's front panel.

Video Calibration takes place at the beginning of both the first SP and the first EP recording after inserting the cassette (when Video Calibration is set to "ON", \square pg. 38).

PAUSE/RESUME RECORDING

Press PAUSE. Press PLAY to resume recording.

● During record pause, you can change the recording channel by using the CH▲▼ (+/–) buttons or NUMBER keys.

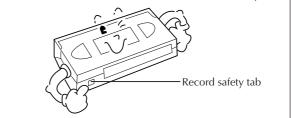
Video Calibration will not take place if the tape speed is changed while in record pause mode.

STOP RECORDING

Press **STOP** or **STOP/EJECT**. Then press **STOP/EJECT** to remove the cassette.

Accidental erasure prevention

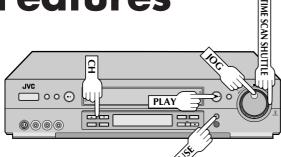
• To prevent accidental recording on a recorded cassette, remove its record safety tab. To record on it later, cover the hole with adhesive tape.

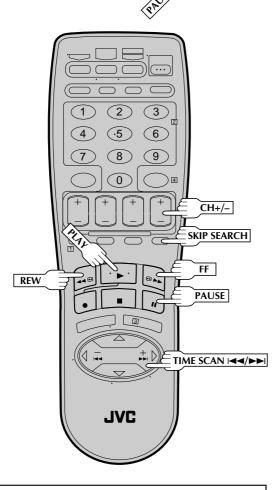


$24_{\scriptscriptstyle EN}$

PLAYBACK AND RECORDING FEATURES

Playback Features





Refer to the chart on page 35 for the Play, Slow Motion and Search speeds that are selected using the **TIME SCAN SHUTTLE** ring and **TIME SCAN** buttons.

Still Picture/Frame-By-Frame Playback

PAUSE DURING PLAYBACK Press PAUSE.

• "TIME SCAN AUDIO" must be set to "ON", or the sound will not be heard (IF pg. 36).

ACTIVATE FRAME-BY-FRAME PLAYBACK

Turn the **JOG** dial to the right for forward frame-byframe playback, or to the left for reverse frame-by-frame playback.

OR

Press **PAUSE** repeatedly to advance one frame at a time. **OR**

Press **TIME SCAN** ►► repeatedly for forward frame-byframe playback or **TIME SCAN** I ← repeatedly for reverse frame-by-frame playback.

To resume normal playback, press PLAY.

Slow Motion (Pro-Slow*)/Reverse Slow Motion/Reverse Motion Playback

* Smooth slow motion delivering an uninterrupted moving image without distortion.

ACTIVATE SLOW-MOTION PLAYBACK

For hands-free slow-motion, press and release **TIME SCAN** I◀◀ during playback to decrease speed in the forward direction. Continue to press and release **TIME SCAN** I◀◀ to select the reverse slow motion, reverse play and reverse search modes.

OR

During playback or still picture, turn the **TIME SCAN SHUTTLE** ring to the right for forward slow motion, or to the left for reverse slow motion.

OR

During still picture, press and hold **TIME SCAN** ►►I for forward slow motion, or press and hold **TIME SCAN** I◄◀ for reverse slow motion. Release to return to still picture.

OR

For forward slow motion during still picture, press and hold **PAUSE** for more than 2 seconds. Press **PAUSE** again to return to still picture.

To resume normal playback, press PLAY.



Index Search

Index codes are placed on the tape at the start of each recording. You can find and automatically play back from the start of any recording using the Index Search function.



While the tape is stopped, press **TIME SCAN** \bowtie or \triangleright (\triangleleft or \triangleright).

ACCESS DISTANT CODE

To access a recording 2–9 index codes away, press **TIME SCAN** \bowtie or \rightarrow (\lhd or \triangleright) repeatedly until the correct number is displayed on screen (only if "SUPER-IMPOSE" is set to "ON" (\square pg. 29). Playback begins automatically when the desired recording is located.

• If necessary press **REW** or **FF** when play starts to search visually to find the very beginning of the desired program.

NOTE:

An index code is not placed on the tape when recording is paused and then resumed.

High-Speed Search

ACTIVATE HIGH-SPEED SEARCH

During playback or still, turn the **TIME SCAN SHUTTLE** ring to the right for forward high-speed search, or to the left for reverse high-speed search.

OR

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

- The search speed is 7 times normal playback speed with SP recordings, and 21 times normal with EP recordings.
- TimeScan will be automatically engaged during highspeed search with an SP-recorded tape.
- If the tape speed changes from SP to EP during highspeed search the TimeScan mode will change to EP search mode.
- During high-speed search with an EP-recorded tape, pressing **TIME SCAN** for the opposite direction or turning the **TIME SCAN SHUTTLE** ring to the opposite direction changes it to 7x-speed TimeScan search. (IP pg. 35)

To resume normal playback, press PLAY.

NOTES:

- For short searches, during playback or still, press and hold **FF** or **REW**. When released, normal playback resumes.
- Search speed is displayed on the left corner of your TV/ monitor when the Superimpose function is "ON". (cr pg. 29)

Manual Tracking

Once playback begins, the VCR's automatic tracking function is engaged. If tracking noise appears in the picture, you can override this and make the adjustment manually.

ENGAGE MANUAL TRACKING MODE

During playback, press the **CH** \blacktriangle and \checkmark buttons on the VCR's front panel simultaneously to cancel the automatic tracking mode and enable manual tracking adjust.

ADJUST MANUAL TRACKING

Press **CH** \blacktriangle (+) or \checkmark (–) on the VCR's front panel or remote. Press briefly for fine adjust, or press and hold for coarse adjust. Watch the screen and continue adjusting until optimum picture and sound quality are achieved.

RE-ENGAGE AUTOMATIC TRACKING

Pres

Press the **CH** \blacktriangle and \checkmark buttons on the VCR's front panel simultaneously.

• When automatic tracking is re-engaged, Video Calibration is automatically activated.

NOTES:

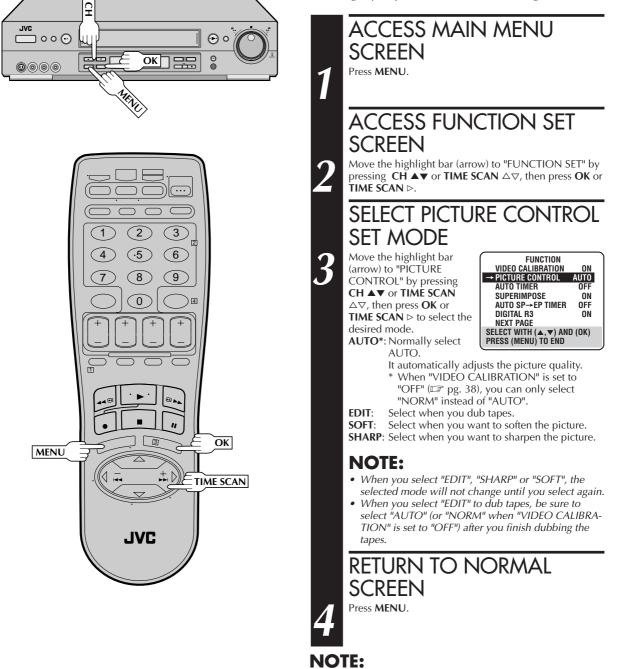
- To obtain a noiseless still picture it may be necessary to adjust tracking in slow playback and then engage Pause.
- Manual tracking is possible during hands-free slow-motion. During hands-free slow-motion playback, simply press CH ▲ (+) or ▼ (-) on the VCR's front panel or remote to adjust tracking.



PLAYBACK AND RECORDING FEATURES (cont.)

Picture Control

This feature helps you to adjust the playback picture quality according to your preference. *The default setting is "AUTO."

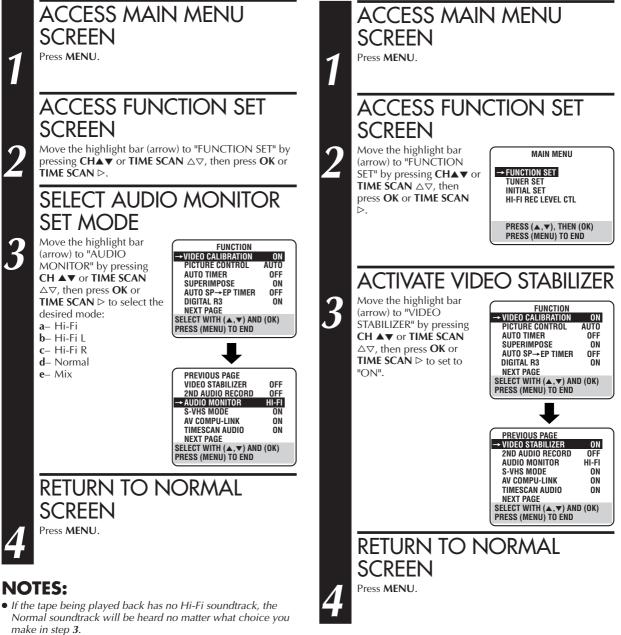


Select "EDIT" when you are dubbing tapes. Refer to page 55.



Select The Soundtrack

Your VCR can record two soundtracks simultaneously (Normal and Hi-Fi) and play back the selected one, or both together. Or, when viewing a pre-recorded tape that contains two separate Hi-Fi audio programs, you can choose to listen to either one by selecting either "Hi-Fi L" or "Hi-Fi R" in step **3**.



 If RF connection is used for TV, even if Hi-Fi audio monitor is selected the sound will be mono and will be reproduced in both loudspeakers.

Video Stabilizer

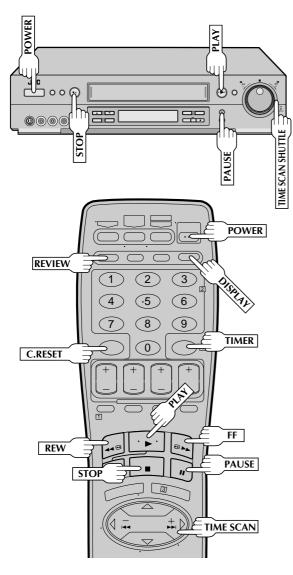
By activating the Video Stabilizer you can correct vertical vibrations in the picture when playing back unstable EP recordings that were made on another VCR. When this function is set to "ON", vertical vibration will be automatically corrected. *The default setting is "OFF".

NOTES:

- When you finish viewing the tape, be sure to set it back to "OFF".
- Regardless of the setting, this function has no effect during recording and during special-effects playback.
- The Superimpose mode indications may jitter vertically when "VIDEO STABILIZER" is set to "ON".
- To watch recordings with close-caption, it is necessary to set the Video Stabilizer function to "OFF".



PLAYBACK AND RECORDING FEATURES (cont.)



Instant ReView

At the press of a button, you can power up your VCR, rewind the tape and begin viewing the most recent timer-recorded program.

ACTIVATE INSTANT REVIEW

After ensuring that the Timer mode is disengaged, press **REVIEW**.

- The power comes on and the VCR rewinds to the index code indicating the start of the last timer-recorded program, then begins playback automatically.
- You can access a program 2–9 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.
- If necessary press **REW** or **FF** when play starts to search visually to find the very beginning of the desired program.
- If the tape is already rewound when **REVIEW** is pressed, it will play the tape from the beginning. It will not fast forward to an index code.
- The Instant Review function will also operate if the VCR's power is on.

Repeat Playback

START REPEAT Press and hold **PLAY** (until " >> " blinks on the front display panel) during playback, then release.



• The entire tape is played back 50 times.

STOP REPEAT

To stop, press **STOP** at any time.

NOTE:

Pressing **PLAY**, **REW**, **FF**, **PAUSE** or **TIME SCAN** I or ► also stops Repeat Playback.

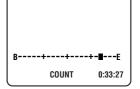
Counter Reset



By pressing the **DISPLAY** button, you can change the display to show the counter reading, channel number, clock time or tape remaining time. (Channel number is not displayed during playback.)

Tape Position Indicator

The Tape position indicator appears on screen when, from the stop mode, you press **FF**, **REW**, or use the **TIME SCAN SHUTTLE** ring, or perform an Index Search or Instant ReView. The position of "■" in relation to "B" (Beginning) or "E" (End) shows you where you are on the tape.



NOTES:

- "SUPERIMPOSE" must be set to "ON", or the indicator will not appear (CF pg. 29).
- It may take a few seconds for the Tape Position Indicator to be displayed.

Next-Function Memory

The Next Function Memory "tells" the VCR what to do after rewinding. Before continuing, ensure that the VCR is in stop mode.

a– For Automatic Start Of Playback After Tape Rewind press **REW**, then press **PLAY** within 2 seconds.

- **b** For Automatic Power Off After Tape Rewind . .
- ... press **REW**, then press **POWER** within 2 seconds.
- **c** For Automatic Timer Standby After Tape Rewind press **REW**, then press **TIMER** within 2 seconds.

NOTE:

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



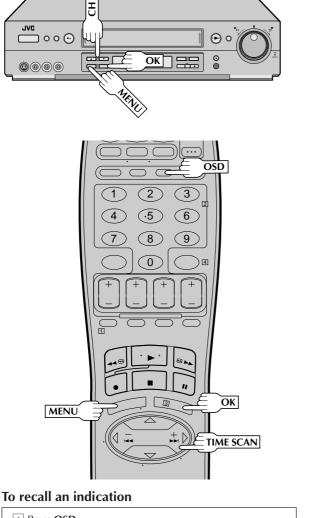
Superimpose

SCREEN

Press MENU.

This function, switchable between ON and OFF, determines whether or not operational indicators will appear on screen.

ACCESS MAIN MENU



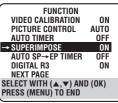
1 Press OSD.

- 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, are left displayed on the screen. ² Press **OSD** again to clear the display.
- The RECORD/PAUSE indication is left displayed on the screen.

ACCESS FUNCTION SET SCREEN Move the highlight bar (arrow) to "FUNCTION SET" by pressing CHA \checkmark or TIME SCAN $\triangle \bigtriangledown$, then press OK or TIME SCAN >. SELECT SUPERIMPOSE SET MODE Move the highlight bar FUNCTION VIDEO CALIBRATION (arrow) to "SUPERIMPOSE" 0N PICTURE CONTROL AUTO by pressing $CH \blacktriangle \forall$ or

TIME SCAN $\triangle \nabla$, then press OK or TIME SCAN ▷ to select the desired mode: a- Select "ON" if you want

the superimposed operational indications on the TV screen.



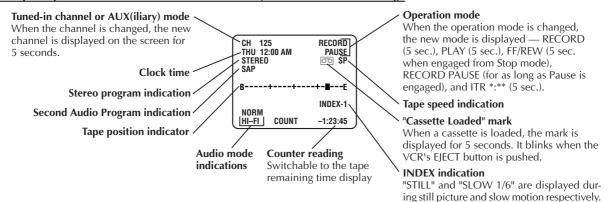
b- Select "OFF" if you do not want the superimposed operational indications on the screen.

RETURN TO NORMAL SCREEN Press MENU.

NOTES:

- If you engage the Record Pause mode, RECORD/PAUSE is displayed regardless of the Superimpose mode setting.
- If you select a channel on which no signal is received, the channel number is displayed regardless of the Superimpose mode setting.

The superimposed indication on the TV screen tells you what the VCR is doing.



 30_{EN}

JVC

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MENU

Your VCR

Audio/Video cable (supplied)

AV COMPU LINK Television

Ü

IN

Example

E

PLAYBACK AND RECORDING FEATURES (cont.)

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OK

TIME SCAN

REMOTE PAUSE/

AV COMPULINK

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AUDIO OUT

CABLE 0

VIDEO

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C

AV COMPU LINK Playback

Your VCR is compatible with JVC's AV COMPU LINK components, including amplifiers (or receivers) and televisions. AV COMPU LINK provides one touch control of the audio and video components that are linked via their AV COMPU LINK connectors. For example: simply load a cassette in the VCR and press **PLAY** and the AV COMPU LINK components automatically power on, the TV's AV mode is selected and the VCR goes into play mode. (PLAY does not need to be pressed if the cassette's record safety tab is removed.)

MAKE CONNECTION Connect your VCR to an AV COMPU LINK component as shown in the illustration in the left column. • The mini-plug cable is a mono 3.5 mm mini-plug to mono 3.5 mm mini-plug connector. ACCESS MAIN MENU SCREEN Press MENU. ACCESS FUNCTION SET SCREEN Press **CH▲▼** or **TIME SCAN** △▽ to move the highlight bar (arrow) to "FUNCTION SET", then press OK or TIMF SCAN ▷. ENABLE AV COMPU LINK PLAYBACK Press CH▲▼ or TIME FUNCTION **SCAN** riangle abla to move the → VIDEO CALIBRATION ON PICTURE CONTROL AUTO highlight bar (arrow) to AUTO TIMER SUPERIMPOSE OFF "AV COMPU-LINK", then press OK or TIME SCAN ▷ AUTO SP→EP TIMER OFF DIGITAL R3 to set to "ON". NEXT PAGE SELECT WITH (▲,▼) AND (OK) PRESS (MENU) TO END PREVIOUS PAGE VIDEO STABILIZER 2ND AUDIO RECORD AUDIO MONITOR OFF OFF HI-FI S-VHS MODE → AV COMPU-LINK ON TIMESCAN AUDIO NEXT PAGE SELECT WITH (▲,▼) AND (OK) PRESS (MENU) TO END **RETURN TO NORMAL SCREEN** Press MENU. 5 PERFORM AV COMPU LINK PLAYBACK Simply insert a cassette and press PLAY (if the cassette's record safety tab has been removed, playback begins automatically). Linked components are turned on, and

NOTE:

Connection varies depending on the type of JVC TV you have. Please refer to the TV's instruction manual when making this connection.

the TV set to its AV mode, automatically!

AUDIO

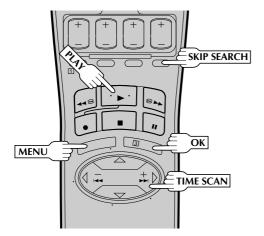
IN

AV COMPU LINK II

(VCR ONLY)

VIDEO

OUT



ATTENTION

Movie Advance and Movie Advance (Preview) work only on prerecorded cassettes that have been recorded in the SP mode, and have no safety tab. If the VCR detects the EP mode after you press **OK** in step **4**, the following screen appears.



PRESS (SKIP) TO CANCEL Skip Search will work for prerecorded EP tapes.

When "MOVIE ADVANCE" is selected...

- If you want to stop searching for the start of the movie, simply press **SKIP SEARCH** or **STOP**.
- When "MOVIE ADVANCE (PREVIEW)" is selected...
 If SKIP SEARCH was inadvertently pressed, press it again
- While the VCR is searching for the next preview, if you
- see a preview you wish to view, press SKIP SEARCH and the VCR will immediately go to the start of that preview.If the VCR starts to reverse to a preview you do not wish
- to view, press **SKIP SEARCH** to initiate searching to the next preview.

NOTES:

- Normally there is a period of black and no audio at the beginning and end of previews. The Movie Advance feature detects those parts where the picture fades to black and the audio fades to silence, and initiates fast-motion to skip over the detected previews.
- Some previews may not be detected and Movie Advance may not work properly.
- The setting you selected in step 3 remains in effect until the cassette is ejected.
- "MOVIE ADVANCE (PREVIEW)" does not use TimeScan when searching for the next preview.



Movie Advance

This feature helps you locate certain parts of prerecorded movies (rented or purchased) and works in two ways.

- You can go to the beginning of the movie, skipping over all previews.
- You can fast-motion the tape to the beginning of the next preview, so you can skip over previews one by one.

LOAD A CASSETTE

Insert a cassette that has a prerecorded movie (rented or purchased), with no safety tab, into the VCR. Playback begins automatically.

ACCESS SKIP MENU SCREEN

Press SKIP SEARCH.

SELECT MODE

Press **CH**▲▼ or **TIME SCAN** △▽ to move the highlight bar (arrow) to your choice.

a- Select "MOVIE

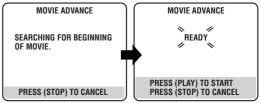


- ADVANCE" if you want to advance directly to the beginning of the movie.
- b- Select "MOVIE ADVANCE (PREVIEW)" if you want to advance to the next preview.

c- Select "SKIP SEARCH" if you do not want to perform Movie Advance, then press OK and the VCR enters stop mode. To activate the Skip Search function, see page 35.

PERFORM MOVIE ADVANCE

 a- If you selected "MOVIE ADVANCE" in step 3 and press OK, the following screen will appear with a blue background. The VCR will rewind the beginning of the tape, then will fast-motion to the beginning of the movie. "READY" will appear and blink when the beginning of the movie is detected and the Stop mode will be engaged. Press PLAY to view the movie.



b– If you selected "MOVIE ADVANCE (PREVIEW)" in step **3** and press **OK**, the VCR will fast-motion to the beginning of the next preview and normal playback will resume when it is detected.

Each press of **SKIP SEARCH** fast-motions to the beginning of the next preview, thereby skipping over one preview each time.

The tape will forward-search a little past the start of the next preview, then will reverse-serach to the beginning of the preview and start playback.



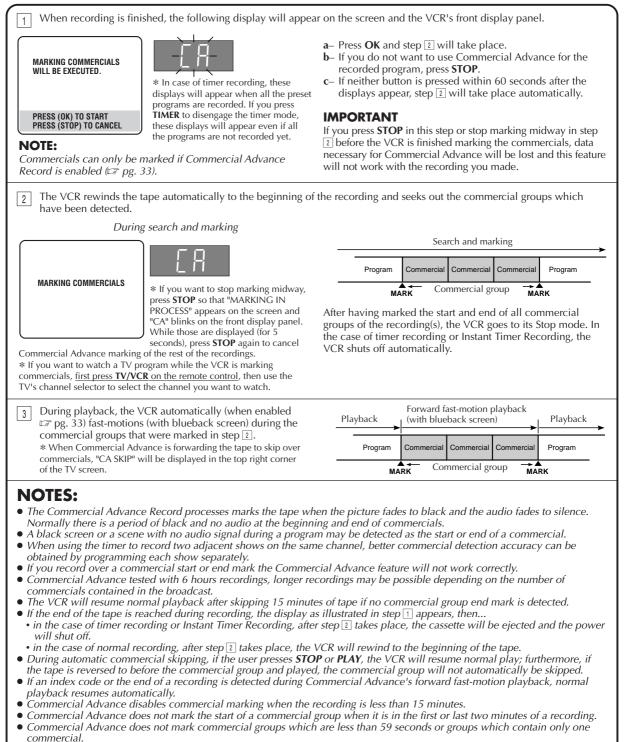


PLAYBACK AND RECORDING FEATURES (cont.)

Commercial Advance

Your VCR is equipped with the Commercial Advance feature, which can automatically fast-motion the tape during playback to skip over previously recorded TV commercials.

Commercial Advance works as follows:



Some commercials may not be detected properly.

EN 33

VIDEO

VIDEO

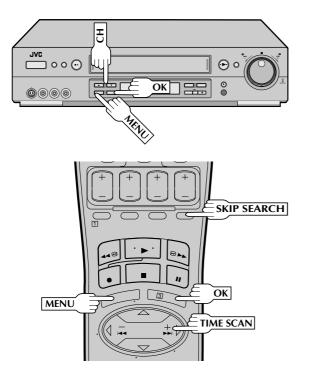
ON Auto

PREVIOUS PAGE FRONT AUX INPUT

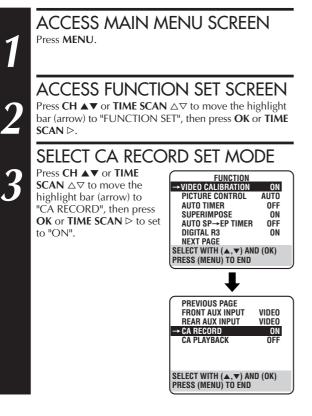
REAR AUX INPUT

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

CA RECORD → CA PLAYBACK



"CA(Commercial Advance) RECORD" and "CA PLAYBACK" are set to " OFF " at the factory. To set Commercial Advance perform the following steps to set "CA RECORD" to "ON" and "CA PLAYBACK" to "ĂUTO".



SELECT CA PLAYBACK SET MODE Press CH ▲▼ or TIME **SCAN** $riangle
abla \$ to move the highlight bar (arrow) to "CA PLAYBACK", then press OK or TIME SCAN > to set to "AUTO"

- Select "AUTO" to automatically skip over
- CA recorded commercials during playback. Select "MANUAL" to manually skip over CA recorded
- Select "Mittoria" to mandally sup over civice of commercials by pressing SKIP SEARCH.
 Select "OFF" to disable CA Playback of CA recorded commercials.
- Press SKIP SEARCH during playback, with "MANUAL" (or "AUTO") selected, to fast-motion the tape to the end of the next commercial group or to the end of the recording, and then resume normal playback.

NOTE:

If you press SKIP SEARCH during a commercial, the VCR may not resume normal playback at the end of the group of commercial. If this occurs press PLAY or STOP to resume normal playback.

RETURN TO NORMAL SCREEN Press MENU.

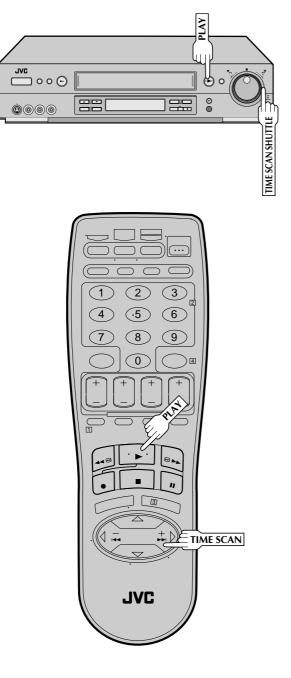
NOTES:

- If you set "CA RECORD" to "ON" while recording is in progress, the VCR will mark an index code at that location.
- You cannot change the "CA PLAYBACK" setting during Commercial Advance fast-motion playback.
- While recording is in progress with "CA RECORD" set to "ON", you cannot mark an index code manually, nor change the recording tape speed.
- During playback with "CA PLAYBACK" set to "OFF", pressing SKIP SEARCH starts fast-motion playback for 30 seconds on the counter (r pg. 35).
- If there is a power outage while recording is in progress with "CA RECORD" set to "ON", commercials that are recorded after the power is restored may not be detected properly.
- If you want to stop recording when "CA RECORD" is set to "ÓN", be sure to press STOP. If you press POWER or TIMER to stop recording, that may affect detection accuracy for commercials recorded afterwards.

U.S. Pat. No. 5,333,091

PLAYBACK AND RECORDING FEATURES (cont.)

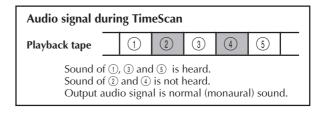
Time Scan



Your VCR is equipped with the TimeScan function. TimeScan allows noise free pictures to be displayed on your TV screen in the forward and reverse search modes. Audio will be played back at normal speed during any of the TimeScan modes (IF) pg. 35). TimeScan allows you to view a program in search mode while listening to the audio.

NOTES:

- "TIMESCAN AUDIO" must be set to "ON", or the sound will not be heard in TimeScan mode (pg. 36).
 The audio will not synchronize with the video in TimeScan
- The audio will not synchronize with the video in TimeScan modes.
- In Pause mode 3 seconds (approx.) of audio will be played back repeatedly. (CF pg. 24)
- In TimeScan search modes some of the audio information will not be played so that the audio can keep up with the video.



Variable-Speed Search/ Reverse Motion Playback



During playback or still, turn the VCR's **TIME SCAN SHUTTLE** ring. It remains at that position even after you release it. Each time it passes a click position, the playback speed changes.

(Refer to the chart on pg. 35 for playback speeds).

During playback, repeatedly press and release **TIME SCAN** I ← **O r** → **D** to select the search speed.

- To increase the speed in the forward direction, press and release →→I repeatedly to select the various forward search modes.
- To decrease the speed in the forward direction, press and release I
- To play in reverse slow motion and in reverse play mode, continue to press I repeatedly after selecting all the forward slow motion modes. (Refer to the chart on pg. 35 for playback speeds).

To resume normal playback, press PLAY.

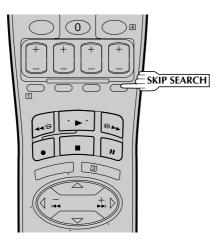
If the superimposed picture jitters vertically during TimeScan, adjust the tracking manually so that the optimum condition is achieved by using manual tracking. (ICF pg. 25)

EN 35

earch -5x -3x udio is outp	Play -1x ut.	(Pro-9 -1/2x	-Motion Slow)**	Stil	*	Slow-N (Pro-Slo		Play		Se	earch	
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	ut.			0		1/3x	1/2x	1x	1.5x	2x	3x	5x 7>
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Is TIME SCAN SHUTTLE ring, the playb STIME SCAN SHUTTLE ring, the playb AN SHUTTLE ring further will not increa- ted at the position where the recording oisy or distorted for a moment when yo arch with a tape containing both SP and beed will change automatically to 7× nd be in use, noise may appear or the upper istorted in comparison to normal playba- ere will be a time lag between the video	se function is "ON", the speed is displayed on speed is the same for SP and EP recordings. hyback, press PLAY . 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- Depending on the type of tape contents, the sound may not be clear during forward slow-motion playback.
 Pro-Slow cannot be activated by pressing **PAUSE** for longer than 2 seconds.
- Depending on the type of tape in use, noise may appear during Pro-Slow. When this happens, try manual tracking (1) pg. 25).

If you don't want to hear TimeScan audio, set "TIMESCAN AUDIO" to "OFF" (r pg. 36).



Skip Search

SKIP OVER UNWANTED **SECTIONS**

Press SKIP SEARCH 1 to 4 times during playback. Each press initiates a 30-second period of fast-motion playback. Normal playback resumes automatically.

NOTES:

- To return to normal playback during a Skip Search, press PLAY.
- If the Skip Menu screen appears, see page 31.

36_{EN}

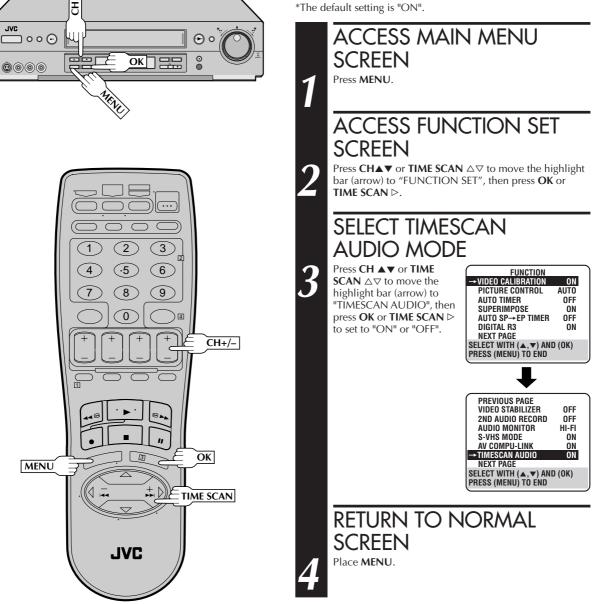
JVC

PLAYBACK AND RECORDING FEATURES (cont.)

TimeScan Audio

The audio output can be set ON/OFF during TimeScan. Select ON/OFF as required.

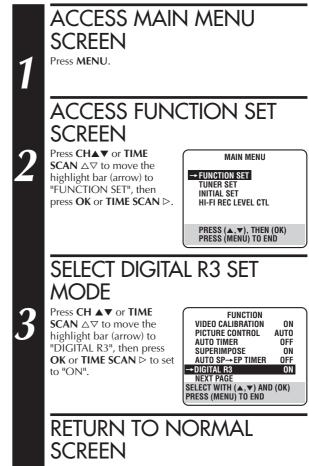
*The default setting is "ON".





Digital R³

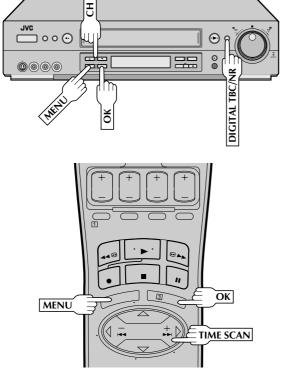
Digital R³ picture system applies edge correction to the luminance signal to enhance detail.





NOTES:

- Normally it is recommendable to keep "DIGITAL R3" set to "ON".
- 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 player for editing, be sure to set "DIGITAL R3" to "OFF" before starting.



Digital TBC/NR

Your VCR is equipped with the Digital TBC (Time Base Corrector) that removes jitter from fluctuating video signals to deliver a stable picture even with old tapes and rental cassettes. The on/off of Digital 3-DNR (Noise Reduction) which cuts noise and enables clear picture reproduction is also linked to this function

* The default setting is "ON".

- We recommend that you use the Digital TBC feature when...
- ... playing back a tape recorded on a camcorder.
- ... playing back a tape repeatedly used.
- ... using this VCR as the player for editing

SELECT DIGITAL TBC/NR SFT MODE

Press DIGITAL TBC/NR so that the button lights up.

• Pressing the button again turns off this function.

NOTES:

- If you play back a tape recorded under poor TV reception condition, there may be cases where the picture becomes more stable with Digital TBC/NR set to off.
- When Digital TBC/NR is set to on, if you play back a tape where certain types of signals are recorded (using a PC or some character generators), the playback picture may be distorted. If this is the case, turn off Digital TBC/NR.
- Digital TBC/NR and Video Stabilizer (pg. 27) cannot be used at the same time; if you turn on Digital TBC/NR when "VIDEO STABILIZER" is set to "ON", Video Stabilizer will be automatically turned "OFF". Make sure Digital TBC/NR is off when you want to use Video Stabilizer.

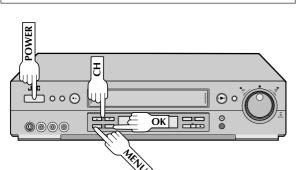


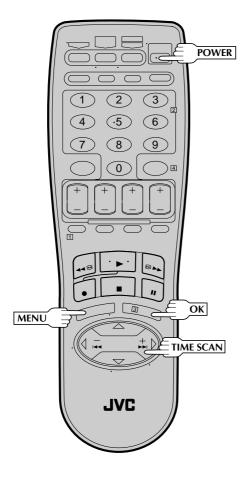
$38_{\scriptscriptstyle EN}$

PLAYBACK AND RECORDING FEATURES (cont.)

Active Video Calibration

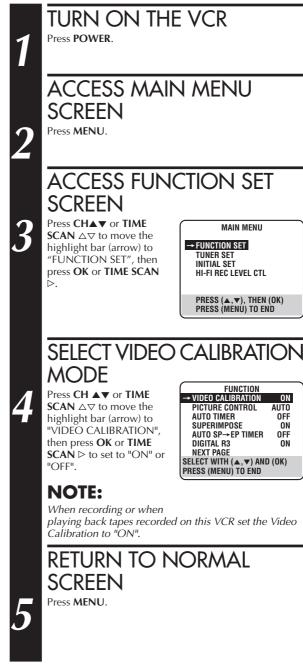
Turn on the TV and select the VCR channel 3 or 4 (or AV mode).





Active Video Calibration checks the condition of the tape during recording and playback, and compensates for poor reproduction to provide the best quality recording and playback pictures. *The default setting is "ON".

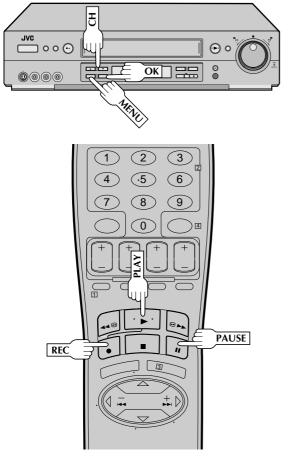
Preparation



EN 39

Recording

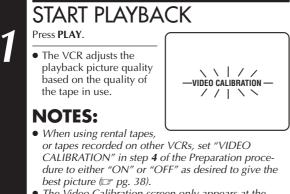
Perform steps 1-3 on page 23 ("Simple Recording") before continuing.



Playback

The VCR assesses the quality of the tape once you start playback.

Perform steps ${\bf 1}$ and ${\bf 2}$ on page 22 ("Simple Playback") before continuing.



- The Video Calibration screen only appears at the beginning of automatic tracking. Even though the screen doesn't appear after that, the Video calibration function is operative.
- To display the Video Calibration screen, "SUPERIM-POSE" must be set to "ON" or the Video Calibration screen will not appear (III) pg. 29).



- In the case of timer recording, calibration takes place for both SP and EP before the first timer recording after inserting the cassette (regardless of the tape speed selected for that recording).
- Once the cassette is ejected, the calibration data is canceled. The next time the cassette is used for recording, calibration is re-performed.
- While Video Calibration is repertorned. button will not function.
- To display the Video Calibration screen, "SUPERIM-POSE" must be set to "ON" or the Video Calibration screen will not appear (27 pg. 29).

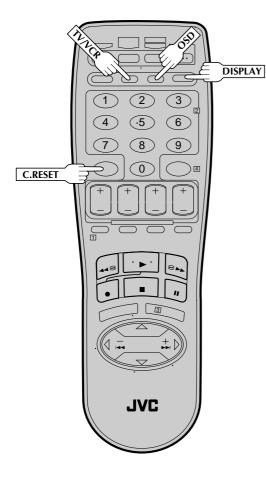
ATTENTION

- As calibration takes place before recording actually starts, there is a delay of about 7 seconds after **REC** and **PLAY** on the remote, or **REC** on the VCR's front panel, are pressed. To make sure you record the desired scene or program completely, first perform the following steps:
 - 1) Press and hold **PAUSE**, and press **REC** to engage the RECORD PAUSE mode.
 - The VCR then automatically checks the condition of the tape and, after about 7 seconds, re-enters RECORD PAUSE.
 - 2) Press PLAY to start recording.
- If you want to bypass Video Calibration and start recording right away, set "VIDEO CALIBRATION" to "OFF" in step 4 of the Preparation procedure (IFF pg. 38).

$40_{\rm EN}$

PLAYBACK AND RECORDING FEATURES (cont.)

Recording Features



Record One Program While Watching Another

ENGAGE TV MODE

During recording...

- Press **TV/VCR**. The VCR's VCR indicator goes out. (If you are using the RF connection (**C** pg. 6) to view the output from your VCR, the TV broadcast being recorded disappears.)
- If you are using the AV connection (IP pg. 6) to view the output from your VCR, change the TV's input mode from AV to TV.

SELECT CHANNEL FOR VIEWING

2

Use the TV's channel selector to set the channel you want to watch.

Display Elapsed Recording Time

RESET COUNTER TO ZERO

Before recording starts, press **C.RESET.** The counter resets to zero and displays the exact elapsed time as the tape runs.

DISPLAY ELAPSED TIME ON SCREEN

During recording, press **OSD** at any time to see the elapsed time.

All indications corresponding to the current status of the VCR are displayed for 5 seconds. The counter display remains on the screen indicating the elapsed time. Press **OSD** again to remove the display.

- Make sure "SUPERIMPOSE" is set to "ON" (IF pg. 29).
- The indications are not recorded.
- Press **DISPLAY** to change to the COUNT display if "REMAIN" is displayed.

Display Tape Remaining Time

DISPLAY COUNTER INFORMATION

Press OSD.

All indications corresponding to the VCR's current status are displayed for 5 seconds. The counter display remains on the screen indicating the elapsed time.

DISPLAY TAPE REMAINING TIME

Press **DISPLAY** until "REMAIN" appears on screen. The approximate tape remaining time appears on the TV screen and also on the VCR display panel with a " $harmontemath{\sim}$ " indicator.

- The tape remaining time is calculated based on the tape speed (SP or EP) being used. The indicated remaining time is only an estimate.
- Press **DISPLAY** to change the on-screen display from REMAIN to COUNT and vice versa; and to show counter reading, channel number, clock time or tape remaining time on the front display panel. Then channel number will not be displayed when the VCR is playing a tape.

EXIT THE DISPLAY

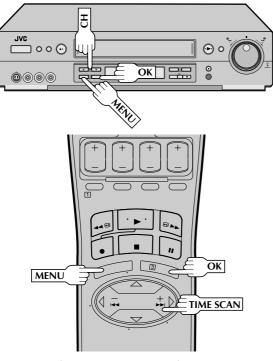
Press **OSD** again.

NOTES:

- "SUPERIMPOSE" must be set to "ON", or the on-screen display will not appear (IF pg. 29).
- Near the beginning of the tape, the tape remaining estimate may be inaccurate. However, the estimate becomes more accurate as the tape comes closer to the end.
- Depending on the type of tape used, the tape remaining time reading may not appear right away, or may not be correct. "- -:- -" may sometimes appear, or the display may blink on occasion.
- The tape remaining time indication is not accurate when using VHS-C tapes with VHS-C adapter.

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$_{EN}41$



S-VHS (Super VHS), S-VHS ET and VHS

Your VCR can record in S-VHS, S-VHS ET or VHS.

S-VHS allows you to make high quality video recordings with a horizontal resolution of 400 lines. This compares with the 240 lines of resolution of normal VHS recordings. To achieve the highest quality picture we recommend that you record in S-VHS mode.

By using S-VHS ET it is possible to record and play back with S-VHS picture quality on VHS cassettes with this VCR. For details, refer to page 42.

To record in S-VHS;

- perform the steps 1 4 below to set the "S-VHS MODE" to "ON".
- then, insert a cassette marked "S-VHS", the S-VHS indicator will light on the display panel.

The S-VHS recording mode will be automatically selected.

To record in S-VHS ET on a VHS high grade cassette;

- press S-VHS ET and set to "ON".
- "Super VHS ET" on page 42.
- To record in VHS;
- insert a cassette marked "VHS".
- press S-VHS ET and set to "OFF".

The VHS recording mode will be automatically selected regardless of the S-VHS mode setting.

To record in VHS on an S-VHS cassette;

- insert the cassette marked "S-VHS", the S-VHS indicator will light on the display panel.
- then, perform the steps 1 4 below to set the "S-VHS MODE" to "OFF"; the S-VHS indicator will go out.
- The VHS recording mode will be selected.

NOTE:

Tapes recorded in S-VHS or S-VHS ET mode can not be played back successfully on normal VHS VCRs.

ACCESS MAIN MENU **SCREEN**

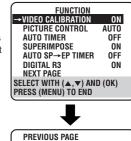
Press MENU.

ACCESS FUNCTION SET SCREEN

Move the highlight bar (arrow) to "FUNCTION SET" by pressing $CH \blacktriangle \forall$ or TIME SCAN $\triangle \bigtriangledown$, then press OK or TIME SCAN ▷

SELECT S-VHS MODE

Move the highlight bar (arrow) to "S-VHS MODE" by pressing CH▲▼ or TIME SCAN $\triangle \nabla$, then press OK or TIME SCAN ▷ to set to "ON" or "OFF".



VIDEO STABILIZER 2ND AUDIO RECORD **OFF** OFF AUDIO MONITOR HI-F → S-VHS MODE AV COMPU-LINK ON ON TIMESCAN AUDIO ON NEXT PAGE SELECT WITH (▲,▼) AND (OK) PRESS (MENU) TO END

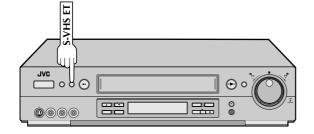
RETURN TO NORMAL SCREEN Press MENU.



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



PLAYBACK AND RECORDING FEATURES (cont.)



Super VHS ET

Your VCR is equipped with Super VHS ET that makes it possible to record with S-VHS picture quality on VHS cassettes.

SELECT S-VHS ET SET

Press S-VHS ET. The button lights up.

- The "S-VHS" indicator lights on the front display panel.
- To disengage the S-VHS ET mode, press S-VHS ET. The button's light goes off.

NOTES:

- You cannot activate the S-VHS ET function...
- ...while recording is in progress.
- ... while timer-recording (incl. Instant Timer Recording 🖙 pg. 53 and Automatic Satellite Program Recording 🖙 pg. 54) is in progress.
- ...while Video Calibration (🖙 pg. 38) is in progress. ...when the VCR's power is off.
- S-VHS ET does not work with S-VHS tapes.

S-VHS ET

This facility allows recording with S-VHS picture quality on VHS cassettes. You can play back those cassettes recorded in S-VHS ET on a VCR equipped with S-VHS ET.

NOTES:

- To obtain the highest quality recording and playback pictures over a longer period on this model, S-VHS recording on S-VHS tape is recommended.
- You can play back S-VHS ET recordings not only on this VCR but also on another VHS VCR equipped with S-VHS ET. * It is recommended to specifically label S-VHS ET recordings so you can easily distinguish them from regular VHS recordings.
- S-VHS ET recordings can also be played back on an S-VHS VCR or a VHS VCR equipped with SQPB (S-VHS IPLAY-BACK) function. However, there may be cases where S-VHS ET playback is not possible on a particular VCR.
- 6 Frequent still, frame-by-frame and slow-motion playback, TIME SCAN SEARCH may damage the tape and cause picture degradation.
- With some tapes, better picture quality may not be obtained even with S-VHS ET recording. It is recommended that you do test record beforehand to make sure whether better results can be obtained.
- High Grade tapes are recommended for superior results.
- Make sure that "VIDEO CALIBRATION" is set to "ON" at the Function screen (pg. 38).
- During S-VHS ET playback, noise may appear depending on tape quality.
- Noise may appear during still, frame- by-frame, slow-motion playback and TIME SCAN SEARCH.
- If the playback picture becomes blurred or interrupted, use a cleaning cassette.



Stereo And SAP (Second Audio Program)

Your VCR's built-in MTS decoder enables reception of Multichannel TV Sound broadcasts.

When the channel is changed on the VCR ...

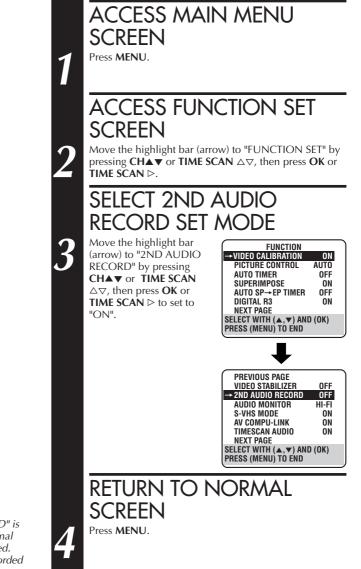
- The "STEREO" indication appears on the screen for about 5 seconds if the program is a stereo broadcast.
- The "SAP" indication appears on the screen for about 5 seconds if the program is a SAP broadcast.
- Both indications appear when a stereo program is accompanied by SAP audio.

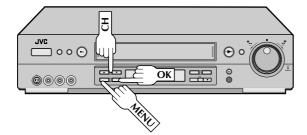
To Record Stereo Programs . . .

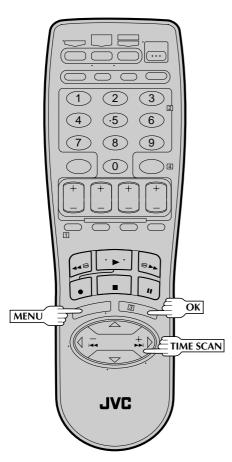
... simply follow the basic recording procedure.

To Listen To Stereo Soundtrack During Recording set "AUDIO MONITOR" to "HI-FI" at the Function screen (\mathbb{TF} pg. 27).

To Record SAP Programs . . .

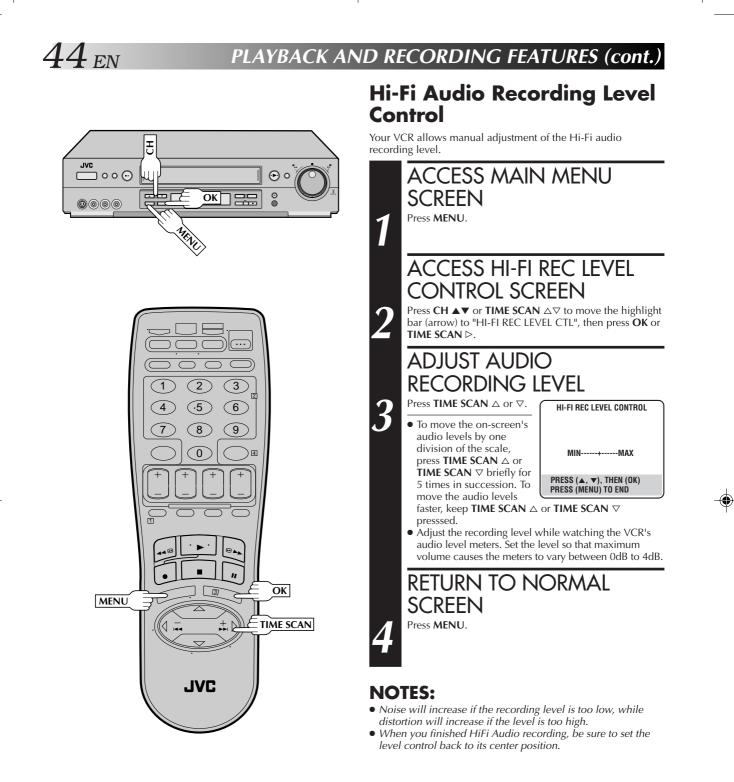






NOTES:

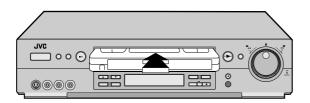
- If a SAP program is received and "2ND AUDIO RECORD" is set to "ON", the SAP audio is recorded on both the Normal and Hi-Fi tracks. The main audio program is not recorded.
- If a non-SAP program is received, the main audio is recorded on both the Hi-Fi and Normal audio tracks.

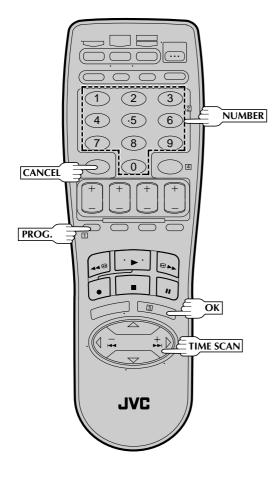


TIMER RECORDING

VCR Plus+ Timer Programming

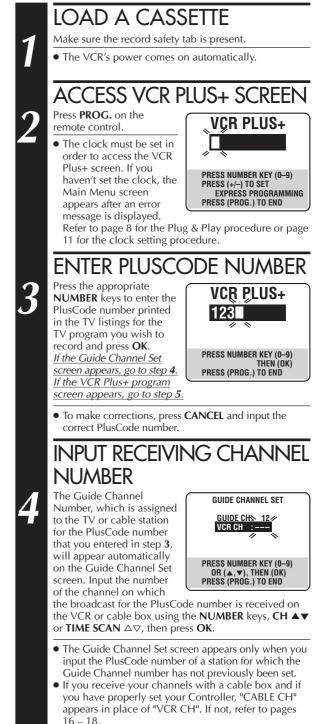
Turn on the TV and select the VCR channel 3 or 4 (or AV mode).





Timer recording allows you to program the VCR to automatically record a program that will be broadcast at some future time. The timer record function can be programmed using VCR Plus+ or Express Timer Programming up to 8 shows as far as a year in advance. (IFF pg. 45 or 49)

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



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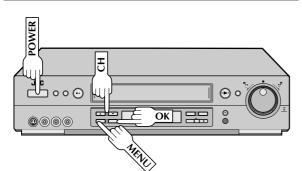
46 en	TIMER RECORDING (con
III<	 5 5
ATTENTION If there is a conflict in the timer schedule and one program overlaps with another, only the parts shown below in gray will be recorded. Pattern 1: The program with the lower program number will be recorded. 10:00 11:00 12:00 Program 1 CH10 Program 2 CH40	IMPORTANT If you have moved to a different area or if a broadcasting station's channel number has been changed, the wrong VC or CABLE CH number will be displayed on the VCR Plus+ program screen in step 5. When this happens, set the correct the Guide Channel number for that station. (IFP pg. 47, "VCR Plus+ Setup")
Pattern 2: The program that is broadcast earlier will be recorded. 10:00 11:00 12:00 Program 1 CH10 Program 2 CH40 Pattern 3: The program that is broadcast earlier will be recorded, followed by the remaining portion of the other program. 10:00 11:00 10:00 11:00 Program 1 CH10 Program 2 CH40	 NOTES: To disengage the timer before recording starts, press TIMI again. Pressing once more re-engages it. In case of a power failure after programming, the VCR's memory backup keeps your selections for approximately 10 minutes. When timer-recording cable channels received through a Cable Box, be sure to keep the Cable Box set to ON.

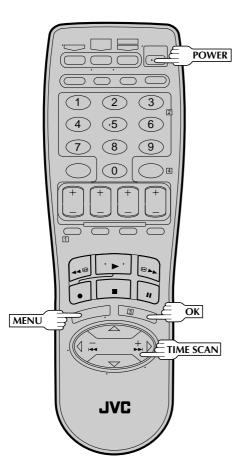
(1

$_{EN}47$

VCR Plus+ Setup

Turn on the TV and select the VCR channel 3 or 4 (or AV mode).





IMPORTANT

If you have moved to a different area or if a broadcasting station's channel number has been changed, the wrong VCR or CABLE CH number will be displayed on the VCR Plus+ program screen (IFF step 5 on page 46). When this happens, perform the following steps to set the correct the Guide Channel number for that station.

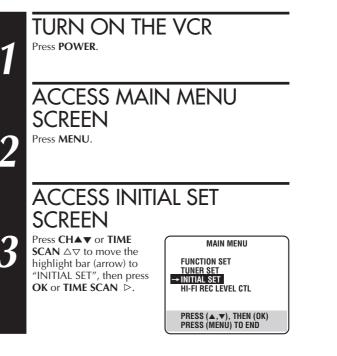
To ensure that VCR Plus+Timer Recording operates correctly it is necessary to set the VCR Plus+ "Guide Channel Set " for each station. Please read the following information carefully.

VCR Plus+ Guide Channel Matching

VCR Plus+ programming system assigns a VCR Plus+ "Guide Channel" to broadcast and cable TV channels. These Guide Channel numbers are also called the VCR Plus+ Channel Codes. Most TV listings have a section, usually a chart, indicating the "Guide Channel" numbers assigned to each station. For accurate VCR Plus+ programming the VCR Plus+ Guide Channel number for each station should match the channel number on which it is received in your area.

NOTES:

- In many instances the VCR Plus+ Guide Channel numbers for cable and broadcast TV stations **DO NOT** match the channel number on which it is received by your VCR or cable box. Check your TV listing, or contact your cable supplier for details.
- Many broadcast TV stations can be viewed on cable. Check your TV listing, or contact your cable supplier for details.



48 en	TIMER RECORDING (cont.)
	ACCESS GUIDE CHANNEL SET SCREEN Press CHA▼ or TIME SCAN △⊽ to move the highlight bar (arrow) to "GUIDE CHANNEL SET", then press OK or TIME SCAN ▷.
Image: Number Image: Number	 INPUT GUIDE CHANNEL NUMBER Press CHA▼, TIME SCAN A▽ or the appropriate NUMBER keys to input the VCR Plus+ Guide Channel number as shown in the TV listing. Then press OK or TIME SCAN ▷. If you receive your channels with a cable box and if you have properly set your Controller, "CABLE CH" appears in place of "VCR CH". If not, refer to pages 16 – 18 and re-perform the procedure.
	INPUT RECEIVING CHANNEL NUMBER Subsection Subsectio

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EN 49

PROGRAM 1

PROGRAM 1

CH

STOP

--:--AM

---- SP

STOP

CH ---- SP

-AM

You can directly program the VCR's timer to record up to 8 shows, as far as a year in advance. Remember, the clock must be

Express Timer set before you can program the timer (E pg. 8 or 11). load a cassette Programmi Make sure the record safety tab is intact. If not, cover the hole with adhesive tape, then load it into the VCR. • The VCR comes on, and the counter is reset, automatically. Turn on the TV and select the VCR channel 3 or 4 (or AV mode). ACCESS VCR PLUS+ SCREEN Press PROG. JVC ۰ ۵ ۵ ۲ ACCESS PROGRAM] ____ 0 000 SCREEN Press START +/-. (If you're just starting out, "PROGRAM 1" appears.) START AM → --: DATE PRESS (+/-, SP/EP, 8=DAILY, 9=WEEKLY), THEN (0K) PRESS (PROG.) TO END SET PROGRAM START TIME Press START +/- to enter the time you want 1 2 3 recording to start. 8:00 AM (.5 6 DATE 4 • Press and hold START __/__/___ +/- to move in 30-PRESS (+/-, SP/EP, 8=DAILY, 9=WEEKLY), THEN (0K) PRESS (PROG.) TO END 7 8 9 minute increments, or press and release 0) वि repeatedly to move 1 minute at a time CH+/-START+/ SET PROGRAM STOP TIME Press STOP +/- to enter the time you want recording to PROG IT. 5 stop. • Press and hold STOP +/- to move in 30-minute increments, or press and release repeatedly to move 1 minute at a time. [3 SET PROGRAM DATE Press DATE +/-. (The current date is displayed on h screen. The date you enter appears in its place.) SET CHANNEL NUMBER Press CH +/-. JVC • If you are using a DBS receiver, see "ATTENTION FÓR DBS RECEIVER USERS" on next page.

• Holding down CH +/- rapidly scans through the channels.

99.4.28, 2:05 PM

$50_{\scriptscriptstyle EN}$

TIMER RECORDING (cont.)

SET TAPE SPEED

Press SP/EP to set the tape speed.

RETURN TO NORMAL SCREEN

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

ENGAGE TIMER MODE

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

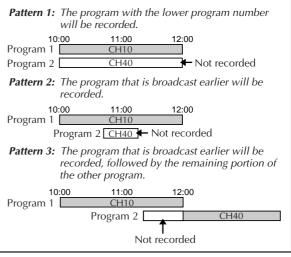
To Timer-Record Weekly Or Daily Serials anytime during steps 3 through 9, press WEEKLY (NUMBER key "9") for weekly serials or DAILY (NUMBER key "8") for daily serials (Monday–Friday). Either "WEEKLY" or "DAILY" appears on the screen. Pressing the button again makes the corresponding indication disappear.

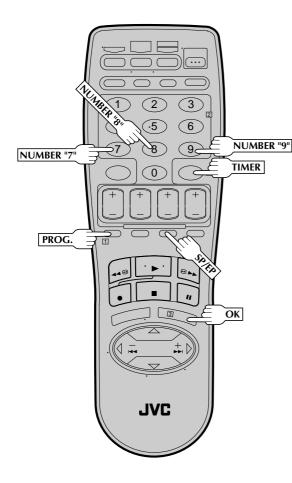
NOTES:

- To disengage the timer before recording starts, press **TIMER** again. Pressing once more re-engages it.
- In case of a power failure after programming, the VCR's memory backup keeps your selections for approximately 10 minutes.
- Programs that start after midnight must have the next day's date.
 After timer recording is completed, the VCR's power goes off automatically.
- You can program the timer while a regular recording is in progress; the on-screen menu will not be recorded.
- If the end of tape is reached during timer recording, the cassette is automatically ejected.
- When timer-recording cable or satellite channels through an external tuner, be sure to keep the cable box or satellite receiver's power ON.

ATTENTION

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





ATTENTI	ON	FOR	DBS	RECEIVER	USERS

If you are using a DBS receiver (unless "DBS RECEIVER SET" is set to "OFF" " pg. 20), the BAND indication (TV or CATV or DBS) appears under the channel number display. If the channel number that has been entered requires that the band be set, "7=DBS" is displayed

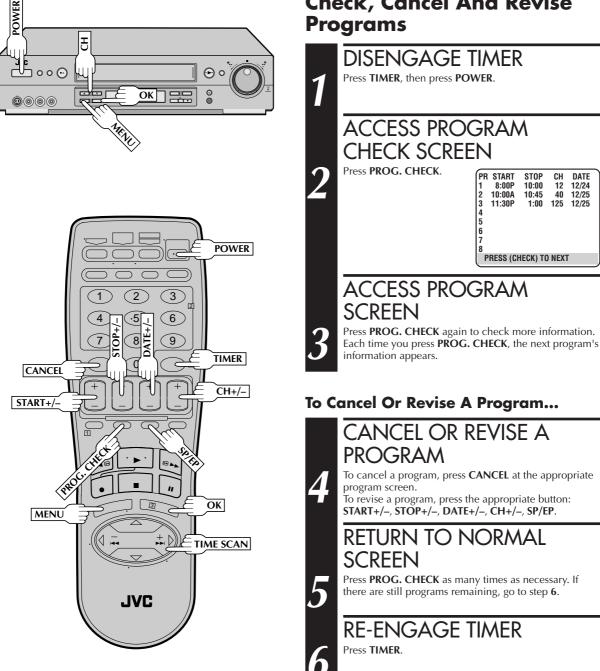


on the screen. Press the **NUMBER** key "7" to select the desired band.

- a-TV : To timer-record a regular TV program received on the VCR.
- **b** CATV : To timer-record a cable TV program received on the VCR, or through a cable box (unless "CABLE BOX SET" is set to "OFF" ☞ pg.17).
- c-DBS : To timer-record a satellite program received through a DBS receiver.
- If "BAND" is set to "TV" at the Tuner Set screen (IF pg.14) and "CABLE BOX SET" is set to "OFF" at the Cable Box Set screen (IF pg. 17), CATV will not be displayed on the Program screen; If "BAND" is set to "CATV" or "CABLE BOX SET" is set to "ON", TV will not be displayed.



Check, Cancel And Revise Programs



Auto SP→EP Timer

If, when recording in SP mode, there is not enough tape to record the entire program, the VCR automatically switches to EP mode to allow complete recording. This feature is especially handy when recording a program of more than 2 hours in length.

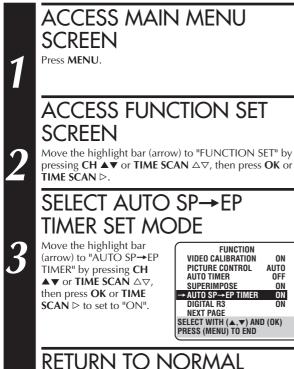
For Example . . .

Recording a program of 140 minutes in length onto a 120minute tape

Approximately 110 minutes	Approximately 30 minutes
SP mode	EP mode

Total 140 minutes

Make sure you set "AUTO SP \rightarrow EP TIMER" to "ON" at the Function screen before the timer recording starts.



RETURN TO NORMAL SCREEN Press MENU.

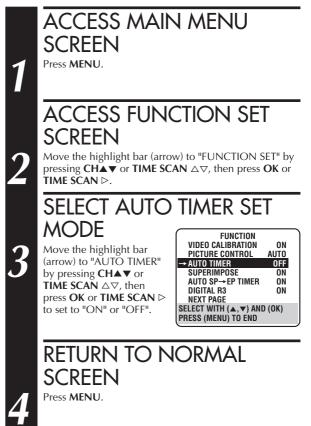
NOTES:

- If you have programmed the VCR to timer-record 2 or more programs, the second program and those thereafter may not fit on the tape if you set the Auto SP→EP Timer mode to "ON". In this case, make sure the mode is not engaged, then set the tape speed manually during timer programming.
- In order to ensure that the recording fits on the tape, this feature may leave a slight non-recorded section at the end of the tape.
- There may be some noise at the point on the tape where the VCR switches from SP to EP mode.
- The Auto SP→EP Timer feature is not available during ITR (Instant Timer Recording), and the feature will work with the following tapes: T(ST)-30, T(ST)-60, T(ST)-90, and T(ST)-120.

TIMER RECORDING (cont.)

Auto Timer

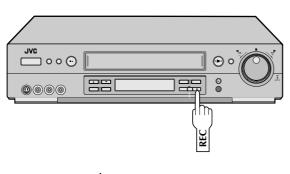
When the Auto Timer is set to "ON" the timer is automatically engaged when the VCR's power is turned off. It is automatically disengaged when the VCR is powered back on.



NOTE:

For safety, when AUTO TIMER is set to "OFF", all other VCR functions are disabled while the Timer mode is engaged. To disengage the timer, press **TIMER**.

Instant Timer Recording (ITR)





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

START RECORDING

Press **REC** on the front panel.

ENGAGE ITR MODE

Press $\rm REC$ again. " \bigcirc " blinks and 0:30 appears on the front display panel.

SET RECORDING DURATION

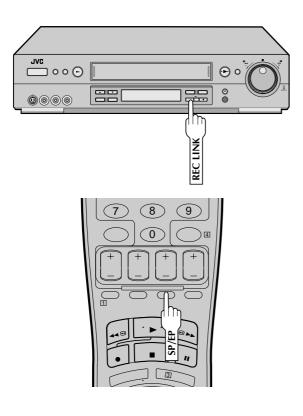
If you want to record for more than 30 minutes, press **REC** to extend the time. Each press extends recording time by 30 minutes.

NOTES:

- You can only perform ITR using the **REC** button on the VCR's front panel.
- After you set the ITR time, the previous display reappears.
- To check the remaining time, press **REC** once during recording and the remaining time will be displayed for about 5 seconds. Be careful not to press **REC** again within these 5 seconds, or you will round the recording time up to the next 30 minute increment.

$54_{\scriptscriptstyle EN}$

Automatic Satellite Program Recording



TIMER RECORDING (cont.)

This facility allows you to automatically record a satellite program which is timer-programmed on your external satellite receiver. Connect a satellite receiver to the VCR's rear AUDIO/ VIDEO IN or S VIDEO IN* (L-1) connectors and program the timer on the satellite receiver; the VCR starts recording when the signals input from the satellite receiver to the rear AUDIO/VIDEO IN or S VIDEO IN (L-1) connectors, and when there is no input signals the VCR stops recording and the power shuts off.

- * If you have connected the satellite receiver to the VCR's S VIDEO IN connector, set "REAR AUX INPUT" to "S-VIDEO" at the Function screen (III) pg. 56).
 - Before performing the following steps:
 - Program the timer on the satellite receiver.
 - Insert a cassette with the safety tab in place.

SET TAPE SPEED

Press SP/EP to set the tape speed.

ENGAGE AUTO SATELLITE PROG REC MODE

Press and hold **REC LINK** for about 2 seconds. The button lights up and the VCR turns off automatically.

- To disengage the Auto Satellite Prog Rec mode, press **REC LINK**. The button's light goes off.
- If the VCR's power is off, it is not possible to engage the Auto Satellite Prog Rec mode.

ATTENTION

- Be sure not to turn on the satellite receiver before the program is executed; otherwise, the VCR will start recording when the satellite receiver's power is turned on.
- If you have connected another appliance other than a satellite receiver to the rear AUDIO/VIDEO IN or S VIDEO IN (L-1) connectors, be sure not to engage the Auto Satellite Prog Rec mode; otherwise, the VCR will start recording when the connected appliance's power is turned on.
- Auto Satellite Prog recording and timer-recording cannot be done at the same time.

NOTES:

- Auto Satellite Prog recording is only possible with the rear AUDIO/VIDEO IN or S VIDEO IN (L-1) connectors.
- When the Auto Satellite Prog Rec mode is engaged or the VCR's power is turned off after Auto Satellite Prog recording is finished, the VCR will not enter the Timer mode even though "AUTO TIMER" is set to "ON".
- For timer programming of the satellite receiver, refer to the instruction manual of the satellite receiver.
- Auto Satellite Prog recording is not possible if your satellite receiver does not have a timer.
- The **REC LINK** button's light blinks while Auto Satellite Prog recording is in progress.
- Pressing the VCR's POWER button while Auto Satellite Prog recording is in progress turns off the VCR's power and disengages the Auto Satellite Prog Rec mode.
- If there is more than one satellite program you wish to record with Auto Satellite Prog Recording, it is not possible to set a different tape speed for each; the tape speed selected in step 1 will apply to all the programs for Auto Satellite Prog recording.
- The Active Video Calibration (pg. 38) does not work while Auto Satellite Prog recording is in progress.
- Auto Clock (III pg. 12) does not work when the Auto Satellite Prog Rec mode is engaged.
- Depending on the type of satellite receiver, the VCR may not record a short portion at the beginning of the program or may record slightly longer than the actual length of the program.
- If you engage the Auto Satellite Prog Rec mode when the satellite receiver's power is on, the VCR will not start Auto Satellite Prog recording even though the **REC LINK** button's light blinks. When the satellite receiver shuts off once and is turned back on again, the VCR starts recording.
- You can also record a program from your cable system in the same way if the system has a timer and is connected to the VCR's rear AUDIO/VIDEO IN or S VIDEO IN (L-1) connectors.
- When you press the VCR's **REC LINK** button to engage the Auto Satellite Prog Rec mode, if the **REC LINK** button does not light but instead blinks quickly even though your satellite receiver's power is off, Auto Satellite Prog Recording will not work properly with that satellite receiver*.

If this is the case, perform "Express Timer Programming" (Er pg. 49) to timer-record a satellite program.

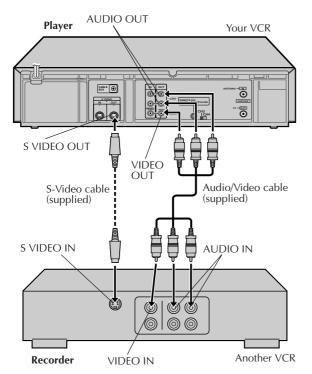
* Some satellite receivers output signals even if the power is off. Auto Satellite Prog Recording is not possible with those satellite receivers.



EDITING

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Edit To Or From Another VCR



Advantages Of S-VHS Editing

S-VHS allows you make high resolution video recordings when dubbing from one VCR to another. You can edit from VHS to S-VHS, from S-VHS to VHS, or

- from S-VHS to S-VHS.
 From VHS to S-VHS (VIDEO-VIDEO connection): Record VHS playback signals in the S-VHS mode. Although the picture quality is inherently limited by the orignal VHS source material, the edited tape has better picture quality than those made by VHS-to-VHS editing.
- From S-VHS to VHS (VIDEO-VIDEO connection): Because the picture quality of the source material is very high, the edited tape has better picture quality than those made by VHS-to-VHS editing.
- From S-VHS to S-VHS (S-VIDEO connection): A high resolution copy is made of a high resolution original S-VHS tape with minimal picture degradation. This is the preferred method of video dubbing.

You can use your VCR as the player or the recorder.

MAKE CONNECTIONS

Connect an AV cable between the player's VIDEO OUT and AUDIO OUT connectors and the recorder's VIDEO IN and AUDIO IN connectors.

- If using another VCR with an S-VIDEO input or output connector, it is recommended to use the S-VIDEO connection to minimize picture degradation while editing.
- When using your VCR as the recorder and a monaural VCR as the player, connect the player's AUDIO OUT connector to the AUDIO IN L connector on the recorder.

LOAD CASSETTES

Insert the playback cassette into the player and the cassette to be recorded on into the recorder.

SET RECORDER'S INPUT MODE

Set to "AUX". With this VCR, press the **NUMBER** key "0" and/or **CH** to select depending on the connector being used – "L-1" for the rear AUDIO/VIDEO IN connector, or "F-1" for the front AUDIO/VIDEO IN connector.

NOTE:

If you use your VCR as the recorder and have connected another VCR to your VCR's S-VIDEO IN connector, you need to set "REAR AUX INPUT" to "S-VIDEO" at the Function screen. Follow steps **4** – **6** from the "Edit From A Camcorder" section (CF pg. 56).

START PLAYER

Set to its play mode.

NOTE:

If the player is equipped with a superimpose/OSD disable feature then set "SUPERIMPOSE" to OFF before pressing **PLAY** (III) pg. 29).



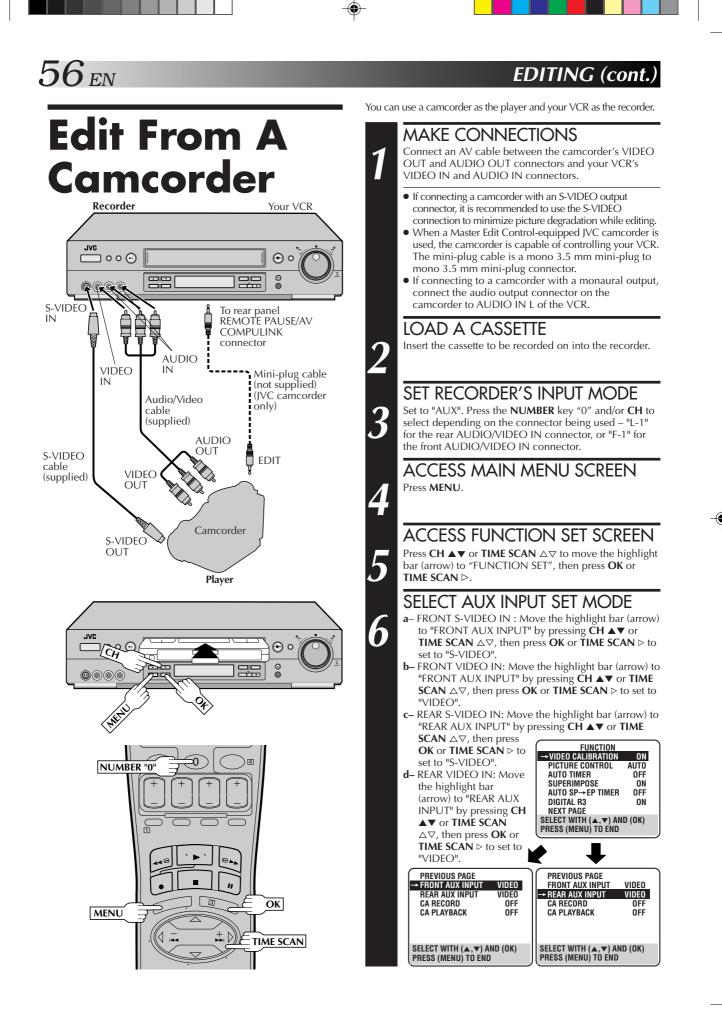
Δ

2

START RECORDER Set to its record mode.

NOTES:

If you use an auxiliary input to connect a cable box or DBS receiver, make sure that the correct AUX INPUT ("VIDEO" or "S-VIDEO") is selected after you have finished editing (CF step 4 – 6, page 56).



SELECT "EDIT" FOR PICTURE CONTROL SET MODE

Follow the "Picture Control" section on page 26, then select "EDIT."

<u>If you are using a JVC Master Edit Control-equipped</u> <u>camcorder</u> — go to step 8. <u>If you are not using a JVC Master Edit Control-</u>

equipped camcorder — go to step 9.

NOTE:

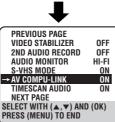
When you select "EDIT" to dub tapes, be sure to select "AUTO" or ("NORM" when "VIDEO CALIBRATION" is set to "OFF") after you finish dubbing the tapes.

ENABLE REMOTE PAUSE FUNCTION

Press **CH** ▲ ▼ or **TIME SCAN** △ ¬ to move the highlight bar (arrow) to "AV COMPU-LINK", then press **OK** or **TIME SCAN** ▷ to set to "OFF".

 The REMOTE PAUSE/AV COMPU-LINK connector works as the AV Compulink Playback connector when "AV COMPU-LINK" is set to "ON" (III) pg. 31), and works as the Remote Pause connector when "AV COMPU-LINK" is set to "OFF".

FUNCTION	
→ VIDEO CALIBRATION	ON
PICTURE CONTROL	AUTO
AUTO TIMER	OFF
SUPERIMPOSE	ON
AUTO SP→EP TIMER	OFF
DIGITAL R3	ON
NEXT PAGE	
SELECT WITH (▲,▼) AND) (OK)
PRESS (MENU) TO END	. ,



RETURN TO NORMAL SCREEN Press MENU.

START PLAYER

Set the camcorder to its play mode.

NOTE:

9

1

If the camcorder is equipped with a superimpose/OSD disable feature then set its superimpose or display feature to OFF before pressing play.

START RECORDER

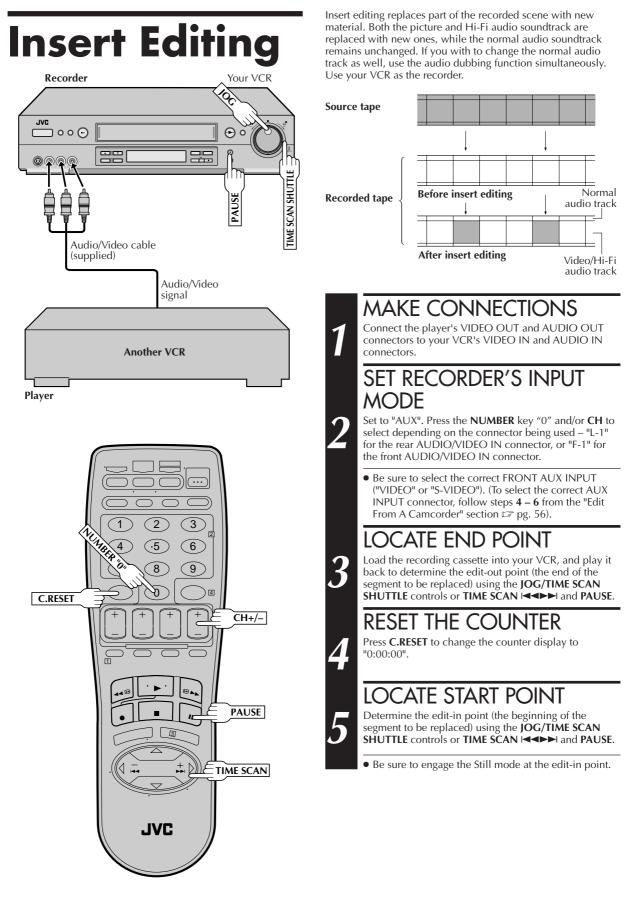
Set your VCR to its record mode.

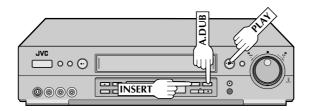
• If you are using a Master Edit Control-equipped JVC camcorder, it can put the recorder automatically into Record mode. (Refer to camcorder's instruction manual.)

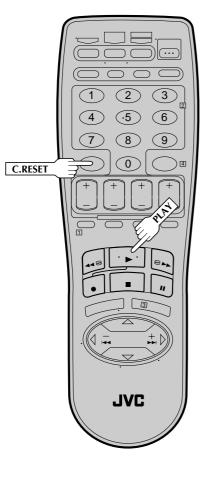
NOTE:

If you use an auxiliary input to connect a cable box or DBS receiver, make sure that the correct AUX INPUT ("VIDEO" or "S-VIDEO") is selected after you have finished editing (III step 4 – 6, pg. 56).

EDITING (cont.)







ENGAGE INSERT EDITING Press INSERT.

- Your VCR enters the Insert-Pause mode. () , > and I light up on the front display panel.)
- The TV screen changes from the still picture to the input source you are going to record.

START EDITING

Load the source cassette and play back the segment that is to be inserted. When you reach the start of the section of the source tape that you wish to insert, press **PLAY** to start the tape in your VCR; Insert Editing begins at this point.

• \bigcirc and \bigcirc are displayed on the front display panel.

END INSERT EDITING

At counter "0:00:00", Insert Editing will stop automatically and both tapes will continue running in the Play mode. If you wish to stop Insert Editing before the specified edit-out point, press **C.RESET**.

FOR AV INSERT EDITING

If you want to replace the picture, Hi-Fi audio soundtrack and normal audio soundtrack all at the same time... In step **6** above, after you press **INSERT**, press **A.DUB** also. () and)> blink and []] lights up on the display panel.)

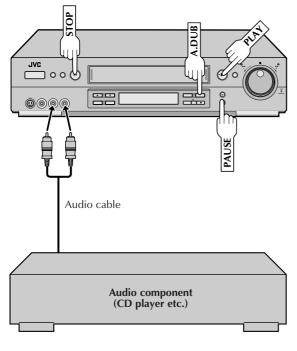
NOTES:

b

- Insert editing is not possible with cassettes whose safety tab has been removed.
- In insert editing, the recording speed (SP/EP) is determined by the previous recording to be replaced. If the previous recording's speed changes within a single edit, the inserted picture will be distorted at the switching point.
- A small portion of the recording which precedes an insert edit may become erased.
- Insert Editing is also possible using the rear connectors. When using these connectors, be sure to select the correct REAR AUX INPUT ("VIDEO" or "S-VIDEO"). To select the correct REAR AUX INPUT, follow steps 4 – 6 from the "Edit From A Camcorder" section, ☞ pg 56.

60_{EN}

Audio Dubbing

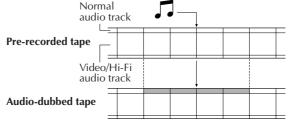


NOTES:

- 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), refer to the "Select The Soundtrack" section (IP pg. 27) and select the soundtrack you wish to hear.
- 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 cannot be performed on a cassette that has had its record safety tab removed.
- When playing back an audio-dubbed tape, refer to the "Select The Soundtrack" section (\$\vec{p}\$ pg. 27) to select the soundtrack you wish to hear.
- Picture may be distorted during Audio Dubbing Pause.
- It may be unlawful to record or play back copyrighted material without the consent of the copyright owner.

EDITING (cont.)

Audio dubbing replaces the normal audio sound of a previously recorded tape with a new soundtrack. Use your VCR as the recorder.



MAKE CONNECTIONS

Connect an audio component to your VCR's AUDIO IN L+ R connectors. *When connecting monaural equipment, use only the VCR's AUDIO IN L connector.

SET RECORDER'S INPUT MODE

Press the remote control's \mbox{NUMBER} key "0" and \mbox{CH} so that "F-1" appears in place of a channel number.

LOCATE START POINT

Press **PLAY** to start playback of the tape in your VCR, and press **PAUSE** when you find the point where you want to start dubbing.

ENGAGE AUDIO DUBBING

Press A.DUB.

• Your VCR enters the Audio Dubbing Pause mode. () blinks, > and ||| light up on the front display panel.)

START DUBBING

Engage the audio component's Play mode, then press **PLAY** to start the tape in your VCR. Audio dubbing begins at this point.

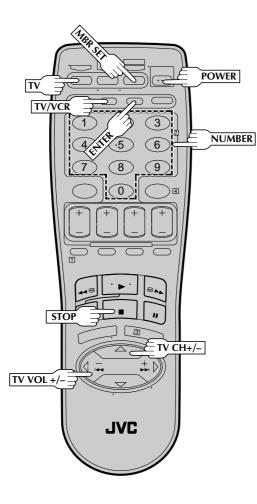
- O blinks and is is displayed on the front display panel.
- To stop dubbing temporarily, press **PAUSE**. Press **PLAY** to resume dubbing.

END AUDIO DUBBING



Press **STOP** to stop the tape in your VCR, and engage the audio component's Stop mode.

SPECIAL FEATURES



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

TV Multi-Brand Remote Control

The VCR's remote control can control several functions on JVC remote control TVs and on the brands of remote control TVs listed below.

EN 61

TURN ON THE TV Turn the power on using the TV's remote control.

SET TV BRAND CODE

Refer to the chart in the left column. While holding down **TV** on the VCR's remote control, press **MBR SET** and enter your TV's brand code using the **NUMBER** keys, then press **STOP**.

Follow the example shown below.

The TV's power should go off. If it does, try other operations (\mathbb{LF} step 3).

- Once you have set the remote control to operate the TV, you don't have to repeat this step until you replace your remote control's batteries.
- PANASÓNIC has two codes. If the TV does not function with one code, try entering the other.

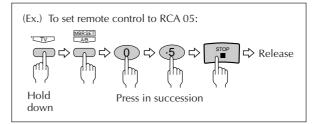
OPERATE TV

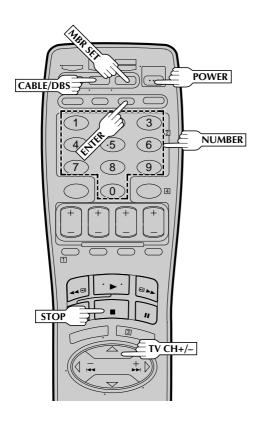
First, while holding down TV, press the corresponding button: POWER, TV CH +/-, TV/VCR, TV VOL +/-, NUMBER keys.

• For some brands of TV, you must press **ENTER** after having pressed the **NUMBER** keys.

NOTE:

Depending on the type of TV, there may be cases where some or all functions cannot be operated using the remote control.



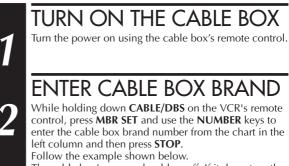


CABLE BOX BRAND NAME	BRAND CODE
ARCHER	01, 05, 17
CABLETENNA	01, 17
CABLEVIEW	15, 16, 17, 21, 25
CITIZEN	15, 16, 17, 21, 25
CURTIS	02
DIAMOND	01, 17
EASTERN	19
GC BRAND	15, 16, 17, 21, 25
GEMINI	15
GENERAL INSTRUMENTS	01, 04, 06, 11, 12, 15
HAMLIN	10, 18, 19, 23
JASCO	15
JERROLD	01, 04, 06, 11, 12, 15
NOVAVISION	02
OAK	07
PANASONIC	13, 14
PULSER	15, 16, 17, 21, 25
RCA	13, 14
REGAL	10, 18, 19, 23
REGENCY	19
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 TOCOM	05, 16, 24 01, 04, 16
UNIKA	, ,
UNIVERSAL	01, 17 16, 17, 25
VIDEOWAY	03, 09, 22
ZENITH	03, 09, 22
	03, 03, 22

SPECIAL FEATURES (cont.)

Cable Box Multi-Brand Remote Control

The VCR's remote control can control functions on the brands of cable boxes listed below. Some cable box brands have more than one code. If your cable box does not function with a specified code, try other codes.



The cable box's power should go off. If it does, try other operations (\square step 3).

• Once you have set the remote control to operate the cable box, you don't have to repeat this step until you replace the remote control's batteries.

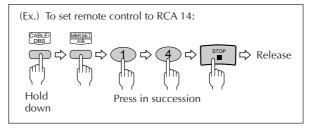
OPERATE CABLE BOX

First, while holding down CABLE/DBS, press the corresponding button: POWER, TV CH +/-, NUMBER keys.

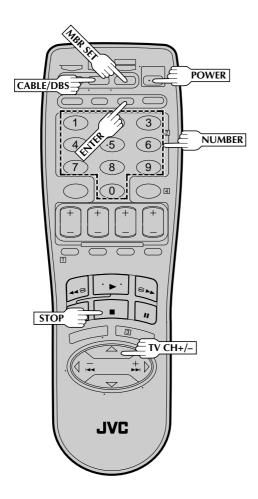
- For some brands of cable box, you must press **ENTER** after having pressed the **NUMBER** keys.
- To change the cable box's channel, press **TV CH +/**or the **NUMBER** keys. (The **CH +/-** button can be used to change the VCR's channel only.)

NOTES:

- Depending on the type of cable box, there may be cases where some or all functions cannot be operated using the remote control.
- It's not possible to set the remote control for both your cable box and a DBS receiver at the same time. You can only set the remote control to operate one of these units at a time.







DBS Receiver Multi-Brand Remote Control

The VCR's remote control can control functions on the brands of DBS (Direct Broadcast Satellite) receivers listed below.

TURN ON THE DBS RECEIVER

Turn the power on using the DBS receiver's remote control.

ENTER DBS RECEIVER BRAND

While holding down **CABLE/DBS** on the VCR's remote control, press **MBR SET** and use the **NUMBER** keys to enter the DBS receiver brand number from the chart in the left column and then press **STOP**.

Follow the example shown below.

The DBS receiver's power should go off. If it does, try other operations (\mathbb{CF} step 3).

• Once you have set the remote control to operate the DBS receiver, you don't have to repeat this step until you replace the remote control's batteries.

OPERATE DBS RECEIVER

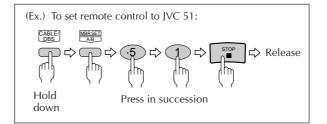
First, while holding down **CABLE/DBS**, press the corresponding button: **POWER**, **TV CH +/–**, **NUMBER** keys.

- Depending on the DBS receiver you may have to press ENTER after having pressed the NUMBER keys.
- To change the DBS receiver's channel, press **TV CH** +/- or the **NUMBER** keys. (The **CH** +/- button can be used to change the VCR's channel only.)

NOTES:

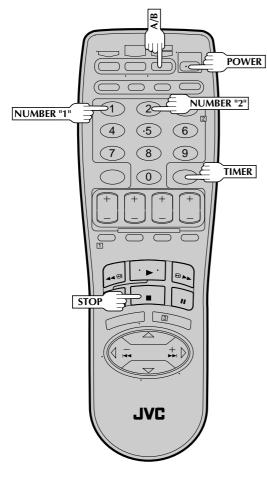
3

- Depending on the type of DBS receiver, there may be cases where some or all functions cannot be operated using the remote control.
- It's not possible to operate a DBS receiver that is not equipped with a remote control sensor.
- Though ECHOSTAR has a number of different remote codes, this remote control is applicable only to one of those codes preset at the factory.
- It's not possible to set the remote control for both your DBS receiver and a cable box at the same time. You can only set the remote control to operate one of these units at a time.



DBS BRAND NAME	BRAND CODE
JVC (DISH Network)	51
ECHOSTAR (DISH Network)	51
PRIMESTAR	50
SONY (DSS)	41
RCA (DSS)	40

64_{EN}



Child Lock

This feature allows you to prevent the operation of the VCR.

TURN VCR POWER ON Press POWER.

ENGAGE CHILD LOCK

Press and hold POWER on the remote control until the Child Lock indicator ("-") appears on the front display panel.

- Power turns OFF and the VCR cannot be turned on from the POWER button on the front panel.
- To cancel Child Lock, press and hold POWER on the remote until the VCR turns on. During timer recording, pressing TIMER also cancels Child Lock.

NOTES:

- When Child Lock is engaged, make sure to keep the remote control out of the reach of children.
- Timer recording of programs that were previously set can be performed while the Child Lock is engaged. The feature remains in effect after the recording is finished.

SPECIAL FEATURES (cont.)

Control Two JVC VCRs

The remote control is capable of controlling two JVC VCRs independently; one set to respond to your remote control's A code control signals and another set to respond to B code control signals. The remote control is preset to send A code signals because your VCR is initially set to respond to A code signals. You can easily modify your VCR to respond to \mathbf{B} code signals.

UNPLUG VCR'S POWER CORD Unplug from the AC outlet.

SET REMOTE CONTROL CODE

While holding down A/B on the remote control, press the NUMBER key "2" and then press STOP.

PLUG IN POWER CORD

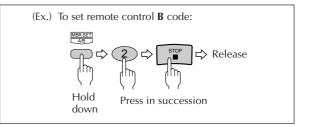
Plug back in to the AC outlet.

TURN VCR POWER ON

Press POWER on the remote.

The VCR will now respond only to **B**-code commands. To set the VCR back to respond to A code signals, repeat the same procedure as shown above except pressing NUMBER key "1" instead of "2" in step 2.

You can control two VCRs with the same remote control by switching the remote's code between A and B (CF Step 2), pressing "1" for A-code commands and "2" for B-code commands.



TROUBLESHOOTING

EN 65

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

POWER		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
1. The power won't come on.	• The power cord is disconnected.	Connect the power cord.
2. The clock works, but the VCR's	• The TIMER mode is engaged with	Press TIMER to disengage.
power won't come on.	Auto Timer set to "OFF" (☞ pg. 52). ● The Child Lock mode is engaged.	Press and hold POWER on the remote to disengage the mode (IF pg. 64).
3. The remote control won't function.	• The batteries are discharged.	Replace the dead batteries with new ones.
TAPE TRANSPORT		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
 The cassette gets stuck partway during loading, and is ejected. 	• The cassette was inserted incorrectly.	Make sure the cassette's window is facing up, the rear label side is facing you and the arrow on the front of the cassette is pointing towards the VCR. Then insert the cassette.
PLAYBACK		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
 The tape is running but the picture won't appear. 	 If you're using the RF OUT connection (IFF pg. 6), the channel selector on the TV is set incorrectly. If you're using the AV connection (IFF pg. 6), the TV receiver is set to the wrong mode. 	Set the channel selector to channel 3 or 4. Set the TV receiver to its AV mode.
2. Breaks are noticeable in Hi-Fi soundtrack.	• Automatic tracking is engaged.	Disengage Auto Tracking and adjust the tracking manually (🖙 pg. 25).
3. The playback picture is blurred or interrupted, even though TV broadcasts are clear.	• The video heads may be dirty.	The heads must be cleaned. Consult your JVC dealer.
4. The Hi-Fi soundtrack cannot be heard.	• The AUDIO MONITOR option was set incorrectly.	Set AUDIO MONITOR to "HI-FI" (ILT pg. 27).
RECORDING		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
1. Recording won't start.	 There's no cassette loaded. The loaded cassette has had its record safety tab removed. 	Insert a cassette. Remove the cassette and cover the hole with adhesive tape, or load a cassette on which the record safety tab is intact.
2. TV broadcasts won't record properly.	• The VCR has been set to its AUX mode by mistake.	Set the VCR to the appropriate channel.
3. Tape-to-tape editing won't work.	 The VCRs or the camcorder and the VCR have been incorrectly connected. The power to one or more of the units has not been turned on. 	Refer to the directions and the illustration under "Edit To Or From Another VCR" (IF pg. 55) or "Edit From A Camcorder" (IF pg. 56) and properly connect the units. Make sure the power to all units is on.
	• The recorder's input mode has been set incorrectly.	Select the recorder's appropriate input mode.

CONTINUED ON NEXT PAGE

66 EN

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TROUBLESHOOTING (cont.)

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TIMER RECORDING				
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION		
1. Timer recording won't work.	 The clock and/or the timer have been set incorrectly. The timer is not engaged. The VCR has not been set up properly. 	Set the clock and/or timer correctly. Press TIMER and check to make sure that O appears on the front display panel. Re-perform the set-up procedures. Make sure you have compensated for Guide Channel and VCR or cable box channel number mismatches (IF pg. 47).		
2. Timer programming won't work.	• Timer recording is in progress.	Timer programming can't be performed when timer recording is in progress. Wait until it finishes.		
3. ② and ☑ on the front display panel won't stop blinking.	• The timer is engaged but there's no cassette loaded.	Load a cassette with the record safety tab intact, or with the hole covered with adhesive tape.		
 The cassette is automatically ejected, and ⊕ and ⊡ on the front display panel won't stop blinking. 	 The loaded cassette has had its record safety tab removed. 	Remove the cassette and cover its hole with adhesive tape, or replace it with a cassette on which the 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 record program information has not been programmed correctly.	Check the programmed data and re- program as necessary, then press TIMER again.		
6. The cassette is automatically ejected, the power shuts off and ℗ and ☞ won't stop blinking.	 The end of tape was reached during timer recording. 	The program may not have been recorded in its entirety. Next time make sure you have enough time on the tape to record the entire program.		
7. Cable channels are not automatically switched during timer recording.	 The Controller is not properly connected to the VCR. The output channel selected in the Cable Box Set screen is incorrect. The cable box's power is off. 	Connect the Controller correctly (IIF pg. 16). After confirming your cable box's output channel number, re-access the Cable Box Set screen and select the correct number (IIF pg. 17). Make sure the power is on before timer recording starts.		
8. Satellite channels are not automati- cally switched during timer recording.	 The Controller is not properly connected to the VCR. The output channel selected in the DBS Receiver Set screen is incorrect. The VCR is not set correctly to control the DBS Receiver The DBS receiver's power is off. 	Connect the Controller correctly (IF pg. 19). After confirming your DBS receiver's output channel number, re-access the DBS Receiver Set screen and select the correct number (IF pg. 20). Set the correct DBS Receiver brand code (IF pg. 21). Make sure the power is on before timer recording starts.		
9. Timer recording begins as sched- uled, but the channel is always incorrect.	• Even though you don't use an external Cable Box, "CABLE BOX SET" is set to "ON".	Set "CABLE BOX SET" to "OFF" (፲͡ਡ pg. 17).		
10.We moved, and now VCR Plus+ doesn't work properly.	• The receivable stations in the new area are received on different channels than those in the previous area.	Re-perform the VCR Plus+ setup procedure (🖙 pg. 47).		
11."PROGRAM FULL" is displayed on the screen.	• All 8 programs of the VCR's timer memory are used.	Wait until a space in memory clears, or cancel unnecessary program information (III) pg. 51).		

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EN 67

OTHER PROBLEMS

SYMPTOM

- 1. When scanning channels, some of them are skipped over.
- 2. The channel can't be changed.
- The remote control won't operate my TV or cable box or DBS receiver.
- Even though Auto or Semi-Auto clock setting has been selected, the clock is incorrect.

POSSIBLE CAUSE
• Those channels have been preset to be skipped.
• Recording is in progress.
• The remote control brand setting is incorrect.

• The clock setting data received from the Host Channel is incorrect.

CORRECTIVE ACTION
If you need the skipped channels, restore them (🖙 pg. 15).
Press PAUSE to pause the recording, change channels, then press PLAY to resume recording.
Re-set the remote control to the correct brand (P g, 61 or 62 or 63).

Select a different Host Channel during the Semi-Auto setting procedure (IIF pg. 12), or perform the Manual setting procedure (IIF pg. 13).

ATTENTION

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

PLAYBACK

- Q. What happens if the end of the tape is reached during playback or search?
- **A.** The tape is automatically rewound to the beginning.
- Q. Can the VCR indefinitely remain in the still mode?
- **A.** No. It stops automatically after 5 minutes to protect the heads.
- Q. During search, still and frame-by-frame playback, the picture is intermittent. What's the cause?
- A. Picture loss occurs when these types of playback are attempted with a tape recorded in LP mode. Pressing **PLAY** to return to normal playback will restore the picture.
- Q. When playing back programs that have been timerrecorded with consecutive times (such one program from 8:00 to 9:00 and another one from 9:00 to 10:00), the picture and sound become momentarily distorted at the point where the first program ends and the second program begins. Is this a malfunction?
- A. No. This is normal.
- Q. Other than preventing further recording, what effect does removing the safety tab have?
- A. It disables marking of index codes.
- Q. Sometimes, during Index Search, the VCR can't find the program I want to see. Why not?
- A. There may be index codes too close together.

- Q. During playback, on-screen operational indicators sometimes jitter. Why does this happen?
- A. If the condition of the tape being played back is not good, jittering of the video (including on-screen indicators) may occur.

QUESTIONS AND ANSWERS

RECORDING

- Q. When I pause and then resume a recording, the end of the recording before the pause is overlapped by the new recording. Why does this happen?
- **A.** This is normal. It reduces distortion at the pause and resume points.
- Q. Can the VCR indefinitely remain in the Record-Pause mode?
- A. No. The VCR automatically goes to its Stop mode after 5 minutes to protect the heads. When paused during Instant Timer Recording (ITR), the VCR shuts off automatically after 5 minutes.
- Q. What happens if the tape runs out during recording?
- **A.** The VCR automatically rewinds it to the beginning.

TIMER RECORDING

- Q. REC and ② remain lit on the front display panel. Is there a problem?
- **A.** No. This is a normal condition for a timer recording in progress.
 -
- Q. Can I program the timer while I'm watching a tape or a TV broadcast?
- A. Yes, but while you are setting the timer you won't see the tape's or broadcast program's picture as it is replaced by the on-screen menu. The audio from the tape or broadcast program will be present during the setting of the timer.

INDEX

List Of Terms

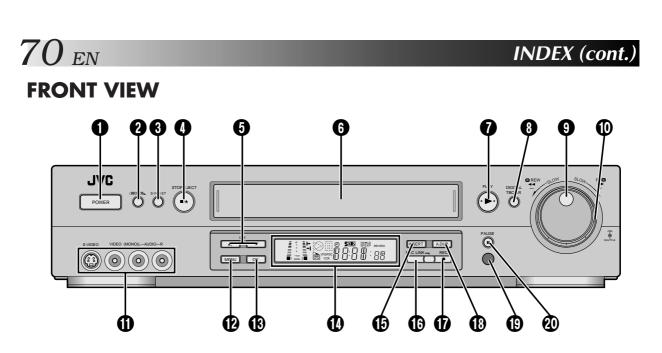
This guide serves as a quick way to locate frequently used terms and on-screen display names.

A

A/B Code64
Active Video Calibration
Add Channel15
Audio Dubbing60
Audio Monitor
Auto Channel Setting14
Auto Daylight Saving Time
Auto SP \rightarrow EP Timer
Auto Timer
Automatic Tracking
Aux Input
AV Compu Link Playback
AV Connection
<u>B</u>
Band14
<u>C</u>
Cable Box16
Cable Box Brand Setting
Cable Box Controller
Cancel Program51
Cassette Adapter22
Check Program51
Child Lock
Commercial Advance
Connection to TV
Contents
Counter Reset
D
DBS Receiver
DBS Receiver Brand Setting21
DBS Receiver Controller19
Delete Channel
Digital R337
Digital TBC/NR
<u>E</u>
Editing55
Express Timer Programming49
Express Timer Recording
F
Frame-by-Frame Playback
G
Guide Channel Setting
H
Host Channel Selection12
l
Index Search
Insert Edit
Insert Cassette
Instant ReView

L
Language Selection10
Μ
Main Menu10Manual Channel Setting15Manual Clock Setting13Manual Tracking25MBR (Multi-Brand Remote) Code Setting61Movie Advance31
<u>N</u>
Next-Function Memory
0 On Screen Display 20
On-Screen Display
PBS Channel
R
REC LINK54Record Safety Tab23Recording23Repeat Playback28Reverse Motion Playback24Reverse Slow Motion Playback24RF Connection6
S
SAP (Second Audio Program)43Second Audio43Select Cable Box Output Channel17Select DBS Receiver Output Channel20Semi-Auto Clock Setting12Skip Search35Slow Motion Playback24Specifications73Still Picture Playback24Superimpose29S-VHS (Super VHS)41S-Video Connection7T
Tape Position Indicator28Tape Speed Setting23Time Scan34Time Zone Selection12Tuner Setting14V
Variable-Speed Search

EN 69



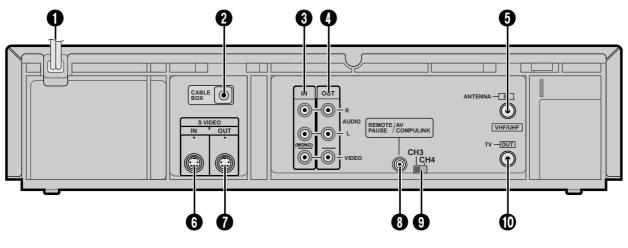
- Power On/Off Button (27 pg. 8) 2 Instant REVIEW Button (pg. 28) 3 S-VHS ET Button (🖙 pg. 42) STOP/EJECT Button (pg. 22) (Channel [CH] ▲▼ Button (☞ pg. 23) **6** Cassette Loading Slot PLAY Button (🖙 pg. 22) ⑧ DIGITAL TBC/NR Button (☞ pg. 37) 9 JOG Dial (🖙 pg. 24)
- SHUTTLE Ring (Er pg. 22)

- **(1)** S-VIDEO/VIDEO/AUDIO Input Connectors
 - (🖙 pg. 56)
- MENU Button (I pg. 10)
- **(B** OK Button (**E**) pg. 10)

- (1) Front Display Panel (1) pg. 107
 (1) Front Display Panel (1) pg. 71)
 (1) INSERT Button (1) pg. 58)
 (1) REC LINK Button (1) pg. 54)
 (1) Record [REC] Button (1) pg. 23)
- (B) Audio Dubbing [A.DUB] Button (IIP pg. 60)
- Remote Control Sensor
- PAUSE Button (🖙 pg. 24)

EN 71

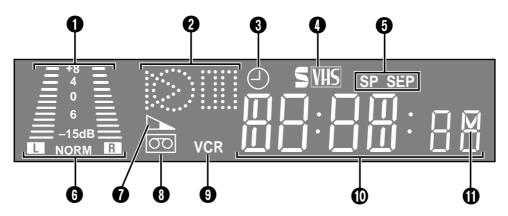
REAR VIEW



- Power Cord (EF pg. 6)
- **2** CABLE BOX Controller Connector (127 pg. 16, 19)
- 3 AUDIO/VIDEO Input Connectors (12 pg. 55)
- AUDIO/VIDEO Output Connectors (pg. 55)
- (ANTENNA IN Connector (☞ pg. 6)
- 6 S-Video (S-VHS) Input Connector (C pg. 55)

S-Video (S-VHS) Output Connector (IF pg. 55)
REMOTE PAUSE/AV COMPULINK Connector
REMOTE PAUSE Connector (IF pg. 56)
AV COMPU-LINK Connector (IF pg. 30)
Channel 3/4 Switch (IF pg. 6)
TV OUT Connector (IF pg. 6)

FRONT DISPLAY PANEL

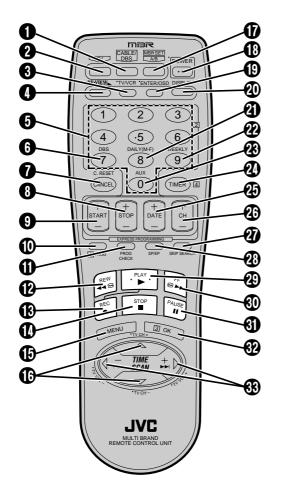


Audio Level Indicators (IF pg. 44)
Symbolic Mode Indicators

PLAY: FF/REW VARIABLE SEARCH:		STILL: SLOW:	
		RECORD:	\bigcirc
JLARCH.		RECORD PAUSE:	
AUDIO DUBBING:			
AUDIO DUBBING PAUSE:			
INSERT:			
INSERT PAUSE:			
AUDIO DUBBING INSERT:			
AUDIO DUBBING INSERT PAUSE:			

- 3 Timer Mode Indicator (27 pg. 46, 50)
- S-VHS Indicator (17 pg. 41)
- **5** Tape Speed Indicators (pg. 23)
- Audio Output Mode Indicator
- **7** Tape Remaining Time Indicator (CF pg. 40)
- 8 "Cassette Loaded" Mark
- **9** VCR Mode Indicator (🖙 pg. 40)
- Channel Display ["L-1" and "F-1" for AUX mode] Counter Display (I pg. 22) Clock Display (I pg. 8)
- (Child Lock Indicator () pg. 64)

REMOTE CONTROL



The glow-in-the-dark buttons shown in white on the illustration above are helpful when using the remote control in darkened rooms.

Buttons with a small dot on the left side of the name can also be used to operate your TV while holding down the **TV** button. IP pg. 61.

How To Use

The remote control can operate most of your VCR's functions, as well as basic functions of TV sets, Cable Boxes and DBS Receivers.

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

INDEX (cont.)

- ① CABLE/DBS Button (☞ pg. 62, 63)
- **2** TV Button (**□** pg. 61)
- **3** TV/VCR Button (**c** pg. 40)
- Instant REVIEW Button (🖙 pg. 28)
- **5** NUMBER keys (🖙 pg. 23, 45, 61, 62, 63)
- **6** DBS Button (🖙 pg. 50)
- CANCEL Button (27 pg. 50)
- Counter [C.] RESET Button (
 pg. 28)
- 8 STOP +/- Button (mg pg. 49)
 9 START +/- Button (mg pg. 49)
- **1** PROG. Button (\Box pg. 45, 49)
- **1** PROG. CHECK Button (\square pg. 51)
- **()** Rewind [REW] Button (\square pg. 22)
- **(b)** Record [REC] Button ($\square pg. 22$)
- I STOP Button (\blacksquare pg. 22)
- **(b)** MENU Button (\square pg. 10)
- TIME SCAN △▽ Button (☞ pg. 10) TV Channel [CH] +/- Button (☞ pg. 61, 62, 63)
- **1** MBR SET Button (🖙 pg. 61, 62, 63)
- A/B Code Button ($\Box = pg. 64$)
- B POWER On/Off Button (
 pg. 10)
- ENTER Button (
 pg. 23)
 On-Screen Display [OSD] Button (
 pg. 29)
- DISPLAY Button (pg. 40)
- DAILY Timer Recording Button (
 pg. 46, 50)
- 2 WEEKLY Timer Recording Button (pg. 46, 50)
- 3 "AUX" Mode Select Button (🖙 pg. 55)
- **2** TIMER Button (🖙 pg. 46, 50)
- Ø DATE +/− Button (□ pg. 49)
- Channel [CH] +/− Button (□ pg. 23, 49)
- SKIP SEARCH Button (
 pg. 35)
- Recording Speed [SP/EP] Button (
 pg. 23)
- PLAY Button (pg. 22)
- Fast-Foward [FF] Button (
 pg. 22)
- PAUSE Button (
 pg. 24)
- OK Button (☞ pg. 10)
- ③ TIME SCAN I → → I (<>>) Button (□ pg. 24, 25, 34) TV Volume [VOL.] +/- Button (□ pg. 61)

NOTES:

- When inserting the batteries, be sure to insert in the correct directions as indicated under the battery cover.
- If the remote control doesn't work properly, remove its batteries. Replace with fully charged batteries and then try again.

SPECIFICATIONS

GENERAL

Power requirement	: AC 120 V \sim , 60 Hz
Power consumption	
Power on	: 22 W
Power off	: 3 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)	: 437 x 97 x 347 mm
	(17-1/4" x 3-7/8" x 13-11/16")
Weight	: 4.8 kg (10.6 lbs)
Format	: S-VHS/VHS NTSC standard
Maximum recording time	5
SP	: 210 min. with ST-210 video
	cassette
EP	: 630 min. with ST-210 video
	cassette

TIMER

Clock reference	: Quartz
Program capacity	: 1-year programmable timer/
	8 programs
Memory backup time	: Approx. 10 min.

EN 73

ACCESSORIES

Provided accessories	: RF cable (F-type), Infrared remote control unit, "AA" battery x 2, Audio/Video Cable, S-Video cable (4-pin), Controller

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

VIDEO/AUDIO

Signal system	: NTSC-type color signal and EIA monochrome signal, 525 lines/60 fields
Recording/	
Playback system	: DA-4 (Double Azimuth) head helical scan system
Signal-to-noise ratio	: 45 dB
Horizontal resolution	: 240 lines (VHS)
	: 400 lines (S-VHS)
Frequency range	
Normal audio	: 70 Hz to 10,000 Hz
Hi-Fi audio	: 20 Hz to 20,000 Hz
Input/Output	: RCA connectors
	(IN x 2, OUT x 1)
	: S-Video connectors
	(IN x 2, OUT x 1)

TUNER

Tuning system Channel coverage VHF UHF CATV RF output : Frequency-synthesized tuner

- : Channels 2-13
- : Channels 14-69
- : 113 Channels
- : Channel 3 or 4 (switchable; preset to Channel 3 when shipped) 75 ohms, unbalanced

HOW TO LOCATE YOUR JVC SERVICE CENTER

TOLL FREE: 1-800-252-5722 http://www.jvcservice.com

Dear customer:

In order to receive the most satisfaction from your purchase, read the instruction booklet before operating the unit. In the event that repair is necessary, or for the address nearest your location, please refer to the factory service center list below or within the Continental United States, call 1-800-252-5722 for your authorized servicer. Remember to retain your Bill of Sale for Warranty Service.

-JVC



Fairfield, NJ 07004-2105

If you ship the product...

Pack your JVC unit in the original carton or one of equivalent size and strength. Enclose, with the unit, a letter stating the problem or symptom that exists and also a copy of the receipt or bill of sale you received when you purchased your JVC unit. Print your home return address on the outside and the inside of the carton. Send to the appropriate JVC Factory Service Center as listed above.

ACCESSORIES

To purchase accessories for your JVC product, you may contact your local JVC Dealer. Or from the 48 Continental United States call toll free: 1-800-882-2345.

Don't service it yourself.

CAUTION

To prevent electrical shock, do not open the cabinet. No user serviceable parts inside. Refer servicing to qualified service personnel.

	LIMITED WARRA	NTY	CONSUMER VIDEO 1-90
	ants this product and all parts thereof, e E FROM DEFECTIVE MATERIALS A elow. ("The Warranty Period")		
	PARTS LABOR	90 DAYS	
THIS LIMITED WARRANTY IS VAL COMMONWEALTH OF PUERTO R	ID ONLY IN THE FIFTY (50) UNITED ICO.	STATES, THE	DISTRICT OF COLUMBIA AND IN
and replacement services shall be r used for replacement are warranted	e, JVC will repair or replace defective p endered by JVC during normal busine d only for the remainder of the Warra center on a carry-in basis except for ome basis.	ess hours at JVO nty Period. All p	c authorized service centers. Parts products and parts thereof may be
WHAT YOU MUST DO FOR WARRA Return your product to a JVC authors service center, please call toll free: (orized service center with a copy of y	your bill of sale.	. For your nearest JVC authorized
	the product carefully, preferably in the nation of the problem to the nearest J coll-free number.		
If you have any questions concernin	g your JVC Product, please contact o	ur Customer Re	elations Department.
 installation, lack of reasonable ca render such service, or if affixed to altered, tampered with, defaced o Initial installation and installation a Operational adjustments covered Damage that occurs in shipment, Signal reception problems and fail 	ect to abuse, accident, alteration, mo re, or if repaired or serviced by anyon o any attachment not provided with the r removed; and removal for repair; in the Owner's Manual, normal mainted due to act of God, and cosmetic dama	e other than a s products, or if th enance, video a age;	ervice facility authorized by JVC to ne model or serial number has been nd audio head cleaning;
8. Batteries (except that Rechargeab	le Batteries are covered for 90 days fro	m the date of pu	rchase); from the date of purchase);
There are no other express warranti	es except as listed above.		
	WARRANTIES INCLUDING THE IM HE EXPRESS WARRANTY HEREIN.		NTY OF MERCHANTABILITY, IS
DAMAGES, WHETHER DIRECT, IN TAPES, RECORDS OR DISCS) RE OF THIS WARRANTY. ALL EX	THE LOSS OF USE OF THE PROD CIDENTAL OR CONSEQUENTIAL (II SULTING FROM THE USE OF THIS PRESS AND IMPLIED WARRAN S FOR PARTICULAR PURPOSE, AF	NCLÚDING, WIT PRODUCT, OR ITIES, INCLU	THOUT LIMITATION, DAMAGE TO ARISING OUT OF ANY BREACH DING THE WARRANTIES OF
	on of incidental or consequential dama ons may not apply to you. This warran ate to state.		
	PANY OF AMERICA OF US JVC CORP.		lley Road Jersey 07470

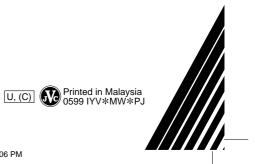
For customer use: Enter below the Model No. and Serial No. which is located either on the rear, bottom or side of the cabinet. Retain this information for future reference. Model No.: Serial No.:

Purchase date:

Name of dealer:







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