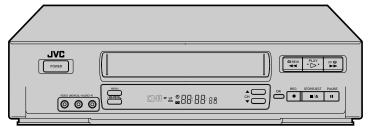
JVC



VIDEO CASSETTE RECORDER

HR-VP656U









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.

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



CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK.

DO NOT REMOVE COVER (OR BACK).

NO USER-SERVICEABLE PARTS INSIDE.

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



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



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

WARNING:

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

CAUTION:

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

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

CAUTION:

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

ATTENTION:

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

Note to CATV system installer:

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

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. DO NOT place the VCR . . .

- ... in an environment prone to extreme temperatures or humidity.
- ... in direct sunlight.
- ... in a dusty environment.
- ... in an environment where strong magnetic fields are generated.... on a surface that is unstable or subject to vibration.
- 2. DO NOT block the VCR's ventilation openings.
- 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+C³ and PlusCode are 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™ is a trademark of SRT, Inc. A Jerry Iggulden invention licensed in association with Arthur D. Little Enterprises, Inc.





- Cassettes marked "VHS" (or "S-VHS") can be used with this video cassette recorder. However, S-VHS recording is not possible with this model.
- This model is equipped with SQPB (S-VHS QUASI PLAY-BACK) that makes it possible to play back S-VHS recordings with regular VHS resolution.
- HQ VHS is compatible with existing VHS equipment.
- 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.

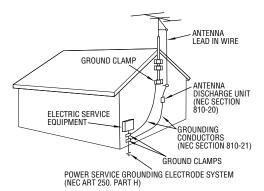
2. Lightning

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

 $4_{\it EN}$

USF

1. Accessories

To avoid personal injury:

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

2. Product and Cart Combination

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





3. Water and Moisture

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

4. Object and Liquid Entry

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

5. Attachments

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

6. Cleaning

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

7. Heat

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

SERVICING

1. Servicing

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

2. Damage Requiring Service

Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions: a. When the power supply cord or plug is damaged. b.If liquid has been spilled, or objects have fallen into the product.

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

3. Replacement Parts

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or 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 56–59 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 IF 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 . . .

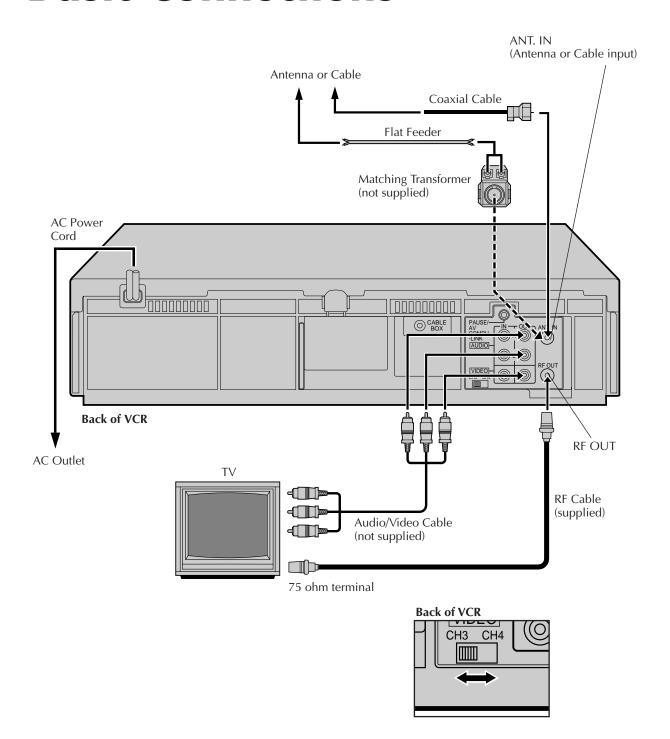
- ... please read the sections/literature listed below.
- "Cautions" on page 2
- "Important Products Safety Instructions" on the previous pages

EN 5

NSTALLING YOUR NEW VCR	6
NSTALLING YOUR NEW VCR Basic Connections	6
NITIAL SETTINGS	8
Plug & Play	
anguage	10
llock	11
Preparation	11
Semi-Auto	12
Manual	
uner	
Set Receivable Channels	14
Add Or Delete A Channel	15
Situate And Connect Controller	16
Set Cable Box Output Channel &	10
Cable Box Brand	17
OBS Receiver Control	19
Situate And Connect Controller	
Set DBS Receiver Output Channel &	
DBS Receiver Brand	20
MPLE PLAYBACK AND	
DECORDING	22
imple Playbackimple Recording LAYBACK AND RECORDING FEATURES	22 23
PLAYBACK AND RECORDING FEATURES	24
Playback Features	<u>24</u> 24
Playback AND RECORDING FEATURES Playback Features Still Picture/Frame-By-Frame Playback Slow Motion/Reverse Slow Motion	24 24 24
Playback AND RECORDING FEATURES Playback Features Still Picture/Frame-By-Frame Playback Slow Motion/Reverse Slow Motion Variable-Speed Search/Reverse Motion Play	24 2424242424
Playback AND RECORDING FEATURES Playback Features Still Picture/Frame-By-Frame Playback Slow Motion/Reverse Slow Motion Variable-Speed Search/Reverse Motion Play High-Speed Search	24 242424 yback2425
Playback AND RECORDING FEATURES Playback Features Still Picture/Frame-By-Frame Playback Slow Motion/Reverse Slow Motion Variable-Speed Search/Reverse Motion Play High-Speed Search Skip Search	24 242424242525
Playback AND RECORDING FEATURES Playback Features Still Picture/Frame-By-Frame Playback Slow Motion/Reverse Slow Motion Variable-Speed Search/Reverse Motion Play High-Speed Search Skip Search Index Search	24 242424252525
LAYBACK AND RECORDING FEATURES Playback Features Still Picture/Frame-By-Frame Playback Slow Motion/Reverse Slow Motion Variable-Speed Search/Reverse Motion Play High-Speed Search Skip Search Index Search Instant ReView	24 24 24 yback24 25 25 25
Playback AND RECORDING FEATURES Playback Features Still Picture/Frame-By-Frame Playback Slow Motion/Reverse Slow Motion Variable-Speed Search/Reverse Motion Play High-Speed Search Skip Search Index Search Instant ReView Manual Tracking	24242425252525
Playback AND RECORDING FEATURES Playback Features Still Picture/Frame-By-Frame Playback Slow Motion/Reverse Slow Motion Variable-Speed Search/Reverse Motion Play High-Speed Search Skip Search Index Search Instant ReView Manual Tracking Video Stabilizer	242424252525252525
LAYBACK AND RECORDING FEATURES Playback Features Still Picture/Frame-By-Frame Playback Slow Motion/Reverse Slow Motion Variable-Speed Search/Reverse Motion Play High-Speed Search Skip Search Index Search Instant ReView Manual Tracking Video Stabilizer Repeat Playback	2424252525252525
LAYBACK AND RECORDING FEATURES Playback Features Still Picture/Frame-By-Frame Playback Slow Motion/Reverse Slow Motion Variable-Speed Search/Reverse Motion Play High-Speed Search Skip Search Index Search Instant ReView Manual Tracking Video Stabilizer Repeat Playback Counter Reset	242425252525252525
Playback AND RECORDING FEATURES Playback Features Still Picture/Frame-By-Frame Playback Slow Motion/Reverse Slow Motion Variable-Speed Search/Reverse Motion Play High-Speed Search Skip Search Index Search Instant ReView Manual Tracking Video Stabilizer Repeat Playback	24242525252525252525
Playback Features Still Picture/Frame-By-Frame Playback Slow Motion/Reverse Slow Motion Variable-Speed Search/Reverse Motion Play High-Speed Search Skip Search Index Search Instant ReView Manual Tracking Video Stabilizer Repeat Playback Counter Reset Tape Position Indicator Next-Function Memory Superimpose	242424252525252525272727
LAYBACK AND RECORDING FEATURES Playback Features Still Picture/Frame-By-Frame Playback	24242525252525252527272727
LAYBACK AND RECORDING FEATURES Playback Features Still Picture/Frame-By-Frame Playback Slow Motion/Reverse Slow Motion Variable-Speed Search/Reverse Motion Play High-Speed Search Skip Search Index Search Instant ReView Manual Tracking Video Stabilizer Repeat Playback Counter Reset Tape Position Indicator Next-Function Memory Superimpose Select The Soundtrack Movie Advance	242425252525252527272727272727
Playback Features Still Picture/Frame-By-Frame Playback Slow Motion/Reverse Slow Motion Variable-Speed Search/Reverse Motion Play High-Speed Search Index Search Index Search Instant ReView Manual Tracking Video Stabilizer Repeat Playback Counter Reset Tape Position Indicator Next-Function Memory Superimpose Select The Soundtrack Movie Advance AV COMPU LINK Playback	24242425252525252727272727272727272727
Playback Features Still Picture/Frame-By-Frame Playback Slow Motion/Reverse Slow Motion Variable-Speed Search/Reverse Motion Play High-Speed Search Index Search Index Search Instant ReView Manual Tracking Video Stabilizer Repeat Playback Counter Reset Tape Position Indicator Next-Function Memory Superimpose Select The Soundtrack Movie Advance AV COMPU LINK Playback	242425252525252526272727272727272727272727
Playback Features Still Picture/Frame-By-Frame Playback Slow Motion/Reverse Slow Motion Variable-Speed Search/Reverse Motion Play High-Speed Search Index Search Index Search Instant ReView Manual Tracking Video Stabilizer Repeat Playback Counter Reset Tape Position Indicator Next-Function Memory Superimpose Select The Soundtrack Movie Advance AV COMPU LINK Playback Active Video Calibration	242425252525252526272727272727272727272727
Playback AND RECORDING FEATURES Playback Features Still Picture/Frame-By-Frame Playback	24242425252525252526272727272727272728303132
Playback Features Still Picture/Frame-By-Frame Playback	2424242525252526272727272727272727233333
Playback Features Still Picture/Frame-By-Frame Playback	242424252525252627272727293031323333
Playback Features Still Picture/Frame-By-Frame Playback	242424252525252627272727293031323333
Playback Features Still Picture/Frame-By-Frame Playback	242424252525252526272727272930333434
Playback Features Still Picture/Frame-By-Frame Playback	24242425252525262727272728303132333333

IMER RECORDING	36
VCR Plus+ Timer Programming	36
VCR Plus+ Setup Express Timer Programming	40
Check, Cancel And Revise Programs Auto SP→EP Timer	
Auto Timer	43
Instant Timer Recording (ITR)	44
DITING	45
Edit To Or From Another VCR	
Edit From A Camcorder	46
SPECIAL FEATURES	48
TV Multi-Brand Remote Control	48
Cable Box Multi-Brand Remote Control	49
DBS Receiver Multi-Brand Remote Control Control Two JVC VCRs	
Child Lock	
T	
ROUBLESHOOTING Power	
rower Tape Transport	52
Playback Recording	52
Timer Recording	53
Other Problems	54
Q UESTIONS AND ANSWERS	55
Playback	55
Recording Timer Recording	55
Ilmer ketording	55
NDEX	56
List Of Terms	
Front ViewRear View	
Front Display Panel	58
Remote Control	59
SPECIFICATIONS	60
OR SERVICING (Only in U.S.A.)	61
14/	
ARRANTY (Only in U.S.A.)	62

Basic Connections





CHECK CONTENTS

Make sure the package contains all of the accessories listed in "SPECIFICATIONS" (F pg. 60).

SITUATE VCR

Place the VCR on a stable, horizontal surface.

CONNECT VCR TO TV

The connection method you use depends on the type of TV you have.

RF Connection

- To Connect To A TV With NO AV Input Terminals . . .
 - 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 the RF OUT jack on the rear of the VCR and the TV's antenna terminal. Set TV on CH3 or CH4 corresponding to the CH3 - CH4 switch setting on the back of the VCR.

- To Connect To A TV With AV Input Terminals . . . a- Connect the antenna, VCR and TV as shown in
 - the illustration.
 - b-Connect an Audio/Video Cable between the AUDIO OUT and VIDEO OUT jacks on the rear of the VCR and the AV IN jacks on the TV. Set your TV in video input mode or A/V input mode. Refer to the TV Instruction Manual.

CONNECT VCR TO **POWER SOURCE**

Connect the power plug to an AC outlet.

• The clock and tuner channels will automatically be set when the antenna is connected and when the AC is first connected to the VCR (F pg. 8). (If "Auto" or "CH" is displayed on the front display panel 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 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 (F pg. 22) or simple recording (F pg. 23).

NOTES:

- 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 RF connection to TV is used, when switching from VCR to TV mode and from TV to VCR it may be necessary to issue a CH UP and then CH DOWN on TV to obtain a good quality picture.
- 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 (F pg. 34).
- For full identification of the VCR's rear panel, refer to the Index (REAR VIEW IF pg. 58).

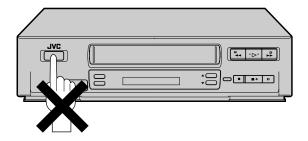
 $8_{\scriptscriptstyle EN}$ initial settings

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. (\square pg.11 – 15)



IMPORTANT

- 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 (pg. 11) and Tuner (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.

1

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.



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

INFORMATION

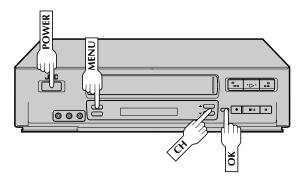
- If "AUTO CLOCK" is set to "ON" at the Clock Set screen on page 12, the clock will be adjusted automatically by the host channel every hour on the hour (except for 11:00 PM, midnight, 1:00 AM and 2:00 AM) by the incoming PBS channel clock setting data. (This automatic clock adjustment can only be performed 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".
- 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.

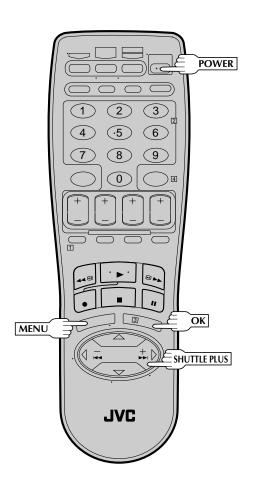
What To Do If Plug & Play Has Failed

- 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 (pg. 12) or Manual Clock Set (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 (pg. 13). Auto channel set has not yet taken place, so please also perform the "Set Receivable Channels" procedure (pg. 14).

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".

1

TURN ON THE VCR

Press **POWER**.

ACCESS MAIN MENU SCREEN

Press MENU.

2

ACCESS INITIAL SET SCREEN

At the Main Menu screen, move the highlight bar (arrow) to "INITIAL SET" by pressing CH ▲▼ or SHUTTLE PLUS△▽, then press OK or SHUTTLE PLUS ▷.

MAIN MENU
FUNCTION SET
TUNER SET
→ INITIAL SET

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

SELECT LANGUAGE

4

Move the highlight bar (arrow) to "LANGUAGE" by pressing CH ▲▼ or SHUTTLE PLUS △▽, then press OK or SHUTTLE PLUS ▷ to select the desired language.

INITIAL SET

CLOCK SET

→LANGUAGE ENGLISH
GUIDE CHANNEL SET
CABLE BOX SET
DBS RECEIVER SET

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

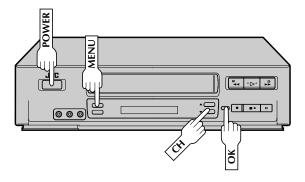
RETURN TO NORMAL SCREEN

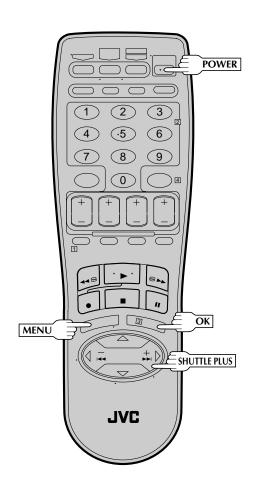
Press **MENU**.

5

Clock

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





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. (pg. 13)

Preparation

1

TURN ON THE VCR

Press **POWER**.

ACCESS MAIN MENU SCREEN

Press MENU.

7

ACCESS INITIAL SET SCREEN

At the Main Menu screen, move the highlight bar (arrow) to "INITIAL SET" by pressing CH▲▼ or

by pressing CH▲▼ or SHUTTLE PLUS△▽, then press OK or SHUTTLE PLUS ▷.

MAIN MENU

FUNCTION SET TUNER SET → INITIAL SET

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

ACCESS CLOCK SET SCREEN

4

Move the highlight bar (arrow) at the Initial Set screen to "CLOCK SET" by pressing CH▲▼ or SHUTTLE PLUS△▽, then press OK or SHUTTLE PLUS▷▷.

INITIAL SET

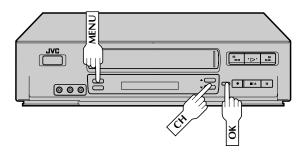
→ CLOCK SET

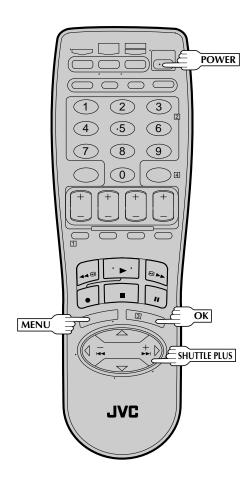
LANGUAGE ENGLISH
GUIDE CHANNEL SET
CABLE BOX SET
DBS RECEIVER SET

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

"CABLE BOX USERS SET
 CLOCK MANUALLY"
 appears on the screen for about 5 seconds, then the Clock Set screen appears.

 $12_{\scriptscriptstyle EN}$





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, press OK or SHUTTLE **PLUS** ▷ to move the highlight bar to "AUTO

CLOCK" and press CH ▲▼ or **SHUTTLE** PLUS △ ▽ to set to "ON".

a- To select the Host Channel — go to step 6

TIME DATE YEAR 1:00PM 12/24 98 THU AUTO CLOCK: ON **∉AUTO** (CATV) HOST CH D.S.T. : AUTO : AUTO TIME ZONE PRESS (▲,▼), THEN (OF PRESS (MENU) TO END

CLOCK SET

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 **SHUTTLE PLUS** ▷, then press **CH** ▲▼ or **SHUTTLE PLUS** $\triangle \nabla$ to set to "AUTO" or the desired PBS channel number.

NOTE:

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

Move the highlight bar to "D.S.T." by pressing **OK** or SHUTTLE PLUS ▷, then press CH ▲▼ or SHUTTLE **PLUS** $\triangle \nabla$ 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.

8

SELECT TIME ZONE

You can select the time zone automatically or manually. Move the highlight bar to "TIME ZONE" by pressing **OK** or **SHUTTLE PLUS** ▷, then press **CH** ▲▼ or **SHUTTLE PLUS** △▽ 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.

RETURN TO NORMAL SCREEN

Press **MENU**.

9

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 SHUTTLE PLUS △▽ until the desired time appears, then press OK or SHUTTLE PLUS ▷.

Press and hold CH ▲▼ or SHUTTLE PLUS △▽ to change the time by 30 minutes

CLOCK SET

TIME DATE YEAR

----AM 1/1 98

AUTO CLOCK: ON
HOST CH : AUTO (CATV)
D.S.T. : AUTO
TIME ZONE : AUTO
PRESS (A, V), THEN (OK)
PRESS (MENU) TO END

 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 ▲▼ or SHUTTLE PLUS △▽ until the desired date appears, then press OK or SHUTTLE PLUS ▷.

 Press and hold CH ▲▼ or SHUTTLE PLUS △∇ to change the date by 15 days.

SET YEAR

7

h

Press CH ▲▼ or SHUTTLE PLUS △▽ until the desired year appears, then press OK or SHUTTLE PLUS ▷ twice.

SELECT D.S.T. MODE

8

Press CH $\blacktriangle \blacktriangledown$ or SHUTTLE PLUS $\triangle \triangledown$ 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

9

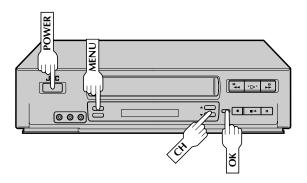
Press **MENU** and normal screen appears.

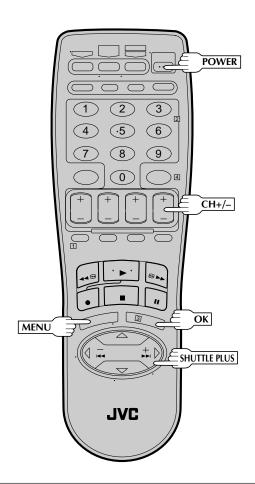
To Make Corrections

Press **OK** or **SHUTTLE PLUS** ▷ until the item you want to change blinks, then press **CH** ▲▼ or **SHUTTLE PLUS** △▽.

Tuner

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





INFORMATION

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.

Set Receivable Channels

1

TURN ON THE VCR

Press **POWER**.

ACCESS MAIN MENU SCREEN

Press MENU.

ACCESS TUNER SET SCREEN

Move the highlight bar (arrow) to "TUNER SET" by pressing CHA▼ or SHUTTLE PLUS△▽, then press OK or SHUTTLE PLUS ▷.

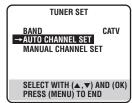


PERFORM AUTO CHANNEL SET

4

Move the highlight bar (arrow) to "AUTO CHANNEL SET" by pressing CH▲▼ or SHUTTLE PLUS△▽, then press OK or SHUTTLE PLUS ▷.

 Receivable channels in your area are automatically assigned to the CH▲▼ (+/-) buttons, and non-receivable channels are skipped.



AUTO CHANNEL SET

SCANNING...

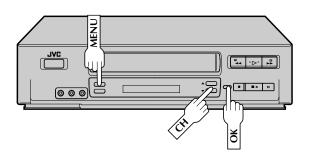
PRESS (MENU) TO END

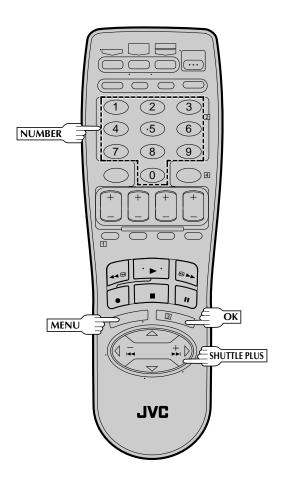
NOTES:

- 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.

RETURN TO NORMAL SCREEN

Press MENU.





Add Or Delete A Channel

ACCESS MAIN MENU SCREEN

Press **MENU**.

ACCESS TUNER SET SCREEN

Move the highlight bar (arrow) to "TUNER SET" by pressing CH▲▼ or SHUTTLE PLUS△▽, then press OK or SHUTTLE PLUS ▷.

ACCESS MANUAL CHANNEL SET SCREEN

Move the highlight bar (arrow) to "MANUAL CHANNEL SET" by pressing CH▲▼ or SHUTTLE PLUS△▽, then press OK or SHUTTLE PLUS▷.



ADD OR SKIP DESIRED CHANNEL

Input the channel number using the NUMBER keys or by pressing CH▲▼ or SHUTTLE PLUS△▽, then press OK or SHUTTLE PLUS ▷ to set to "ADD" or "SKIP" as required. Repeat for each channel you want to add or skip.



RETURN TO NORMAL SCREEN

Press **MENU**.

5

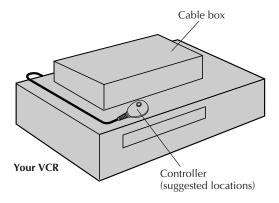
Cable Box Control

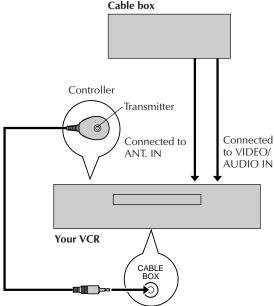
Suggested Location

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+ (\$\mathbb{C}\mathbb{T}\$ pg. 36) or Express Timer Programming (\$\mathbb{C}\mathbb{T}\$ pg. 40).

Situate And Connect Controller

1

SITUATE CONTROLLER

Place the Controller so that the path between its transmitter and the cable box's remote sensor is unobstructed.

Fa

ATTACH CONTROLLER

Fasten securely using the supplied adhesive strip.

ı.

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 . . .

... connect the antenna output connector on the cable box to the ANT. 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 TO VCR

4

Connect to the CABLE BOX connector on your VCR.

About Your Cable Box

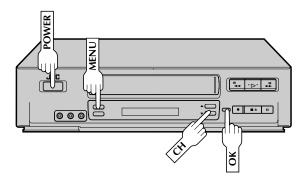
This VCR has two separate methods to control your Cable Box.

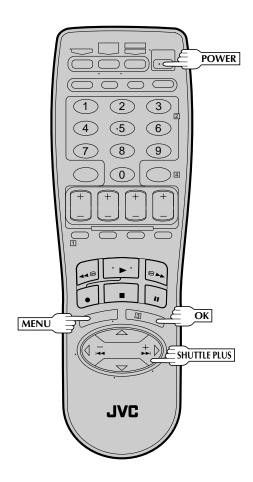
- The VCR's Wireless Remote Control Unit can control your Cable Box.

 This oliminates the pood for a separate Cable Box Pomete.
 - 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 49. To set up the Controller go to page 17.

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





Set Cable Box Output Channel & Cable Box Brand

1

TURN ON CABLE BOX

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

TURN ON THE VCR

Press **POWER**.

ACCESS MAIN MENU SCREEN

Press MENU.

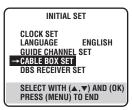
3 ľ

ACCESS INITIAL SET

Press **CH**▲▼ or **SHUTTLE PLUS**△▽ to move the highlight bar (arrow) to "INITIAL SET", then press **OK** or **SHUTTLE PLUS** ▷.

ACCESS CABLE BOX SET SCREEN

Press CH▲▼ or SHUTTLE
PLUS△▽ to move the
highlight bar (arrow) to
"CABLE BOX SET", then
press OK or SHUTTLE
PLUS ▷.



SELECT CABLE BOX OUTPUT CHANNEL

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

If your cable box is connected to your VCR using an RF connection press CH ▲▼ or

SHUTTLE PLUS △▽ until

CABLE BOX SET

OFF

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

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

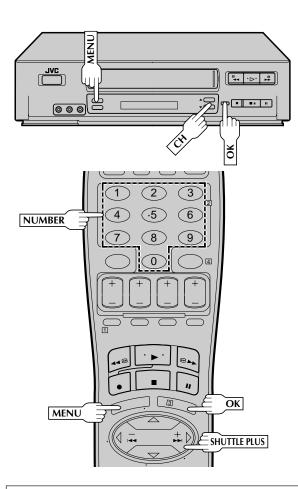
If your cable box is connected to your VCR's FRONT AUDIO/VIDEO IN connectors . . .

. . . press CH $\blacktriangle \blacktriangledown$ or SHUTTLE PLUS $\triangle \bigtriangledown$ until "ON F-1 (FRONT)" appears on the screen.

If your cable box is connected to your VCR's REAR AUDIO/VIDEO IN connectors . . .

... press **CH ▲▼** or **SHUTTLE PLUS** △▽ until "ON L-1 (REAR)" appears on the screen.

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:

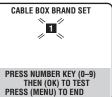
- Although the supplied Controller is compatible with many different cable box brands, it is possible that it will not work with your cable box.
- If your cable box doesn't respond to any code between 1 and 25, you can't use the Controller to change cable box channels. In this case, make sure to leave 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.
- 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 SHUTTLE PLUS △▽ 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
SL MARX	5, 16, 17, 24, 25
SPRUCER	13, 14
STARGATE	5, 15, 16, 17, 21, 24, 25
TELEVIEW	5, 16, 24
TOCOM	1, 4, 16
UNIKA	1, 17
UNIVERSAL	16, 17, 25
VIDEOWAY	3, 9, 22
ZENITH	3, 9, 22

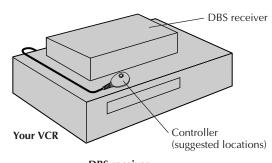
DBS Receiver Control

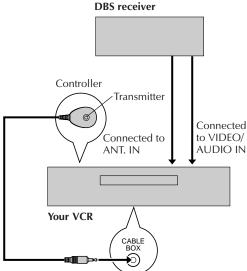
Suggested Location

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 your DBS Receiver.
 - This eliminates the need for a separate DBS Receiver Remote Control Unit.
- 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 50. 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 (□ pg. 40).
 Because satellite programming does not use Plus Code: the
 - 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's A/V inputs and the cable box to your VCR's antenna input.

Situate And Connect Controller

P

SITUATE CONTROLLER

Place the Controller so that the path between its transmitter and the DBS receiver's remote sensor is unobstructed.

Fa

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 ANT. IN connector on the rear of your

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

NOTE:

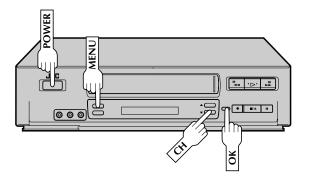
When connecting your DBS receiver refer to its instruction manual.

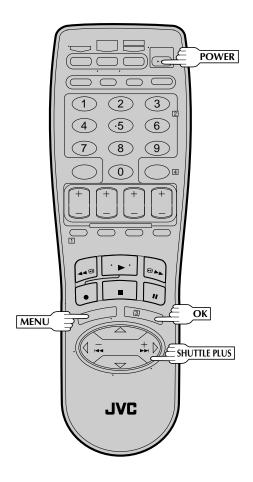
CONNECT CONTROLLER TO VCR

4

Connect to the CABLE BOX connector on your VCR.

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





Set DBS Receiver Output Channel & DBS Receiver **Brand**

TURN ON DBS RECEIVER

Select a channel other than channel 55, 100 or 205 on your DBS receiver.

TURN ON THE VCR

Press POWER.

• Set the VCR to the channel (3 or 4 or F-1 or L-1) on which the signals from the DBS receiver are received.

ACCESS MAIN MENU **SCREEN**

Press MENU.

ACCESS INITIAL SET

Press CH▲▼ or SHUTTLE PLUS△▽ to move the highlight bar (arrow) to "INITIAL SET", then press OK or SHUTTLE PLUS ▷.

ACCESS DBS RECEIVER SET SCREEN

Press CH▲▼ or SHUTTLE **PLUS** $\triangle \nabla$ to move the highlight bar (arrow) to "DBS RECEIVER SET", then press OK or SHUTTLE PLUS ▷.

INITIAL SET **CLOCK SET** LANGUAGE EN GUIDE CHANNEL SET **ENGLISH** DBS RECEIVER SET SELECT WITH (▲,▼) AND (OK) PRESS (MENU) TO END

DBS RECEIVER SET

0FF

SELECT DBS RECEIVER **OUTPUT CHANNEL**

Your selection depends on how your DBS receiver is connected to your VCR.

If your DBS receiver is connected to your VCR using an RF connection press CH ▲▼ or

SHUTTLE PLUS △▽ until

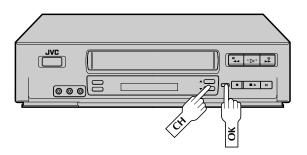
PRESS (▲,▼), THEN (OK) PRESS (MENU) TO END the channel number representing the DBS receiver's output (CH3 - CH4) appears on the screen.

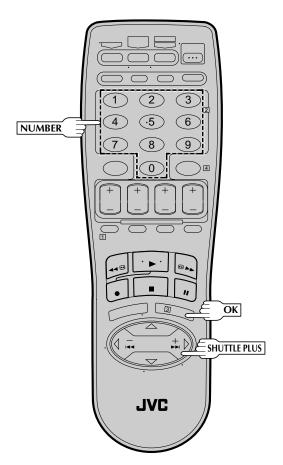
If your DBS receiver is connected to your VCR's FRONT AUDIO/VIDEO IN connectors . . .

. . . press CH ▲▼ or SHUTTLE PLUS △▽ until "ON F-1 (FRONT)" appears on the screen.

If your DBS receiver is connected to your VCR's REAR AUDIO/VIDEO IN connectors . . .

... press CH ▲▼ or SHUTTLE PLUS △▽ until "ON L-1 (REAR)" appears on the screen.





ACCESS DBS RECEIVER BRAND SET SCREEN

Press OK.

SET DBS RECEIVER BRAND

Press the appropriate **NUMBER** keys to enter the DBS Receiver Code from the following list, then press **OK**.



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

- After OK is pressed, the program currently received through the DBS receiver will appear for about 10 seconds.
- If the DBS receiver's channel changes as follows, setting is complete. Press OK and "DBS RECEIVER CONTROL IS ON" appears on the screen for about 5 seconds, then it returns to the normal screen.

JVC \rightarrow ECHOSTAR \rightarrow PRIMESTAR \rightarrow SONY \rightarrow RCA \rightarrow

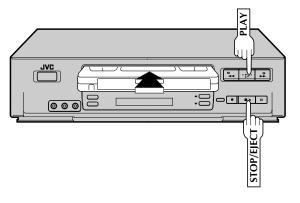
 If the DBS receiver's channel does not change as shown above, press CH ▲▼ or SHUTTLE PLUS △▽ to move the highlight bar (arrow) to "NO", then press OK. Re-enter the correct code.

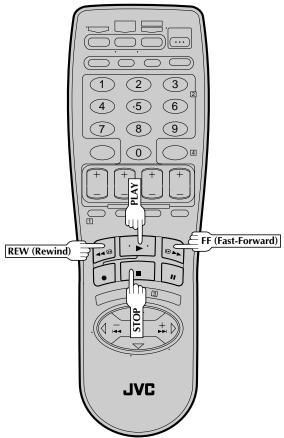
NOTES:

- It is possible that the Controller will not work with all types of DBS receiver.
- If your DBS receiver doesn't respond to the code, you can't use the Controller to change satellite channels. In this case, make sure to leave the DBS receiver turned on and tuned to the proper channel before the scheduled start of timer recording.
- The VCR can only change the satellite channel through the Controller during timer recording.
- 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

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**. To go forward, press **FF**.

START PLAYBACK

Press **PLAY**. "VIDEO CALIBRATION" appears on the screen (when VIDEO CALIBRATION is set to "ON" pg. 32).

STOP PLAYBACK

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

INFORMATION

This video recorder is equipped with SQPB (S-VHS QUASI PLAYBACK) that lets you watch tapes recorded in the S-VHS format with regular VHS resolution.

- SQPB does not deliver Super VHS resolution.
- S-VHS recording is not possible with this video recorder.

Usable cassettes

Full-Size VHS T-30 (ST-30**) T-60 (ST-60**) T-90 T-120 (ST-120**) T-160 (ST-160**) ST-210**

Compact VHS* TC-20 (ST-C20**) TC-30 (ST-C30**) TC-40 (ST-C40**)

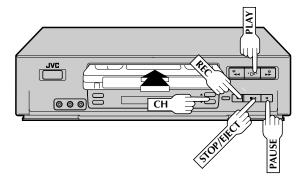


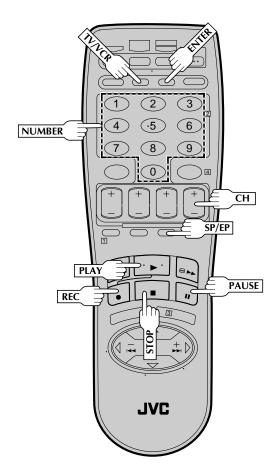
- * Compact VHS camcorder recordings can be played on this video recorder. Simply place the recorded cassette into a VHS Cassette Adapter and it can be used just like any full-sized VHS cassette.
- ** This video recorder can record on regular VHS and Super VHS cassettes. However, it will record regular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

1

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", F pg. 32).

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.

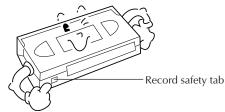
STOP RECORDING

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

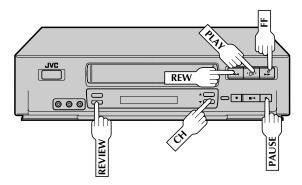
Accidental erasure prevention

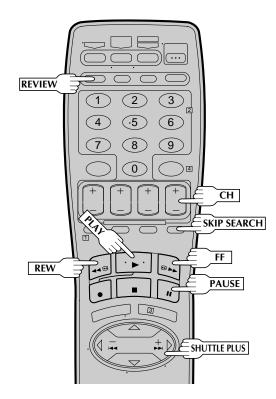
• To prevent accidental recording on a recorded cassette, remove its record safety tab.

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



Playback Features





NOTE: Refer to the following for the operations described on this page.

Reverse Forward

Reverse search 3 steps Reverse slow motion 5 steps Slow motion 5 steps Slow motion 4 steps

Still Picture/Frame-By-Frame Playback

1

PAUSE DURING PLAYBACK

Press **PAUSE**. If there is vertical jitter, use the **CH** \blacktriangle (+) or \blacktriangledown (–) button to correct the picture.

ACTIVATE FRAME-BY-FRAME PLAYBACK

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

Press **SHUTTLE PLUS** ►►I repeatedly for forward frameby-frame playback or **SHUTTLE PLUS** I◄◄ repeatedly for reverse frame-by-frame playback.

To resume normal playback, press PLAY.

Slow Motion/Reverse Slow Motion

ACTIVATE SLOW-MOTION PLAYBACK

For hands-free slow-motion, press and release SHUTTLE PLUS I◄◄ during playback to decrease speed in the forward direction. Continue to press and release SHUTTLE PLUS I◄◄ to select the reverse slow motion, reverse play and reverse search modes.

\bigcirc R

During still picture, press and hold **SHUTTLE PLUS** ►►I for forward slow motion, or press and hold **SHUTTLE PLUS** ►◄ 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.

Variable-Speed Search/ Reverse Motion Playback

ACTIVATE VARIABLE-SPEED SEARCH

1

During playback, repeatedly press and release **SHUTTLE PLUS** ► or ► to select the search speed.

- To increase the speed in the forward direction, press and release ►► repeatedly to select the various forward search modes.
- To decrease the speed in the forward direction, press and release I◄◄.

To resume normal playback, press PLAY.

High-Speed Search

ACTIVATE HIGH-SPEED

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

To resume normal playback, press PLAY.

NOTE:

For short searches, during playback or still, press and hold FF or **REW** for over 2 seconds. When released, normal playback resumes

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 30.

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.

START SEARCH

While the tape is stopped, press SHUTTLE PLUS ► or $\blacktriangleright \blacktriangleright \blacktriangleright (\triangleleft \text{ or } \triangleright).$

ACCESS DISTANT CODE

To access a recording 2–9 index codes away, press SHUTTLE PLUS I or ►► ((
or or (
or) repeatedly until the correct number is displayed on screen (only if SUPERIMPOSE is set to ON (F) pg. 28). 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.

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.

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▲ and ▼ buttons on the VCR's front panel simultaneously to cancel the automatic tracking mode and enable manual tracking

ADJUST MANUAL **TRACKING**

Press $CH \triangle (+)$ or $\nabla (-)$ 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.

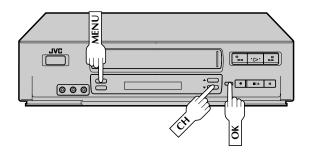
RE-ENGAGE AUTOMATIC TRACKING

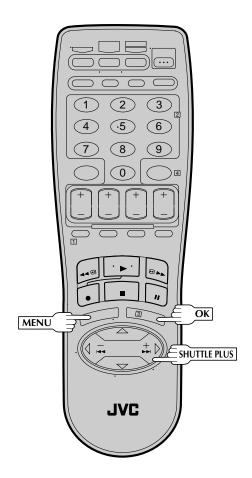
Press the CH▲ and ▼ buttons on the VCR's front panel simultaneously.

• 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 \(\text{\(Lambda\)}\) (+) or ▼ (-) on the VCR's front panel or remote to adjust tracking.





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".

1

ACCESS MAIN MENU SCREEN

Press **MENU**.

ACCESS FUNCTION SET SCREEN

Move the highlight bar (arrow) to "FUNCTION SET" by pressing CH▲▼ or SHUTTLE PLUS△▽, then press OK or SHUTTLE PLUS ▷.

MAIN MENU

→ FUNCTION SET

TUNER SET

INITIAL SET

PRESS (A, ▼), THEN (OK)

PRESS (MENU) TO END

ACTIVATE VIDEO STABILIZER

Move the highlight bar (arrow) to "VIDEO STABILIZER" by pressing CH ▲▼ or SHUTTLE PLUS △∇, then press OK or SHUTTLE PLUS ▷ to set to "ON".

FUNCTION

AUTO TIMER OFF
SUPERIMPOSE ON
AUTO SP→EP TIMER OFF
→ VIDEO STABILIZER ON
NEXT PAGE

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

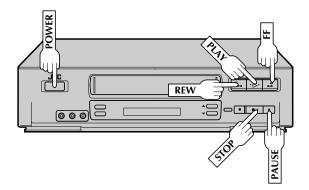
RETURN TO NORMAL SCREEN

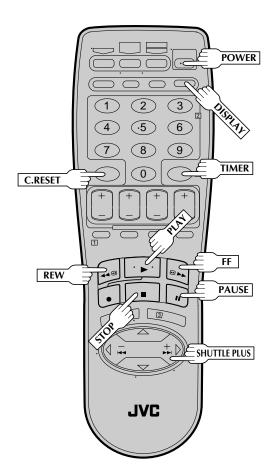
4

Press MENU.

NOTES:

- Regardless of the setting, this function has no effect with SP recordings, during recording and during special-effects playback.
- When you finish viewing the tape, be sure to set it back to "OFF".





Repeat Playback

1

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 SHUTTLE PLUS

→ or → also stops Repeat Playback.

Counter Reset

1

RESET COUNTER TO ZERO

Press C.RESET.

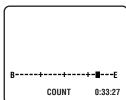
NOTE:

By pressing the **DISPLAY** button, you can change the display to show the counter reading, channel number or clock 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** or **REW**, or perform an Index Search or Instant ReView. The position of " **" " " "** " in relation to "**B"** (Beginning)

" | " 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 (□ pg. 28).
- It may take a few seconds for the Tape Position Indicator to be displayed.

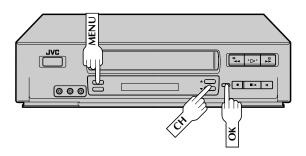
Next-Function Memory

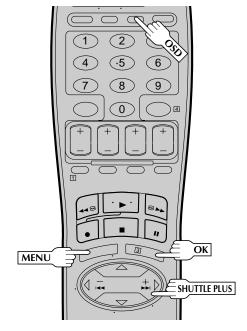
The Next Function Memory "tells" the VCR what to do after rewinding. Before continuing, ensure that the VCR is in stop mode.

- 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.





To recall an indication

- 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.

Superimpose

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

S(Pres

ACCESS MAIN MENU SCREEN

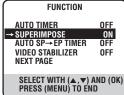
Press MENU.

ACCESS FUNCTION SET SCREEN

Move the highlight bar (arrow) to "FUNCTION SET" by pressing CH▲▼ or SHUTTLE PLUS△▽, then press OK or SHUTTLE PLUS ▷.

SELECT SUPERIMPOSE SET MODE

Move the highlight bar (arrow) to "SUPERIMPOSE" by pressing CH▲▼ or SHUTTLE PLUS△▽, then press OK or SHUTTLE PLUS ▷ 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

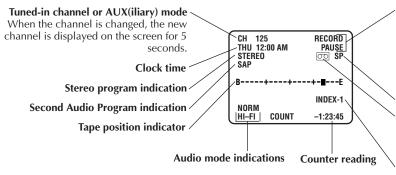
Δ

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.



Operation mode

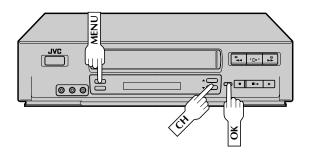
When the operation mode is changed, the new mode is displayed — RECORD (5 sec.), PLAY (5 sec.), FF/REW (5 sec.) when engaged from Stop mode), RECORD PAUSE (for as long as Pause is engaged), and ITR *:** (5 sec.).

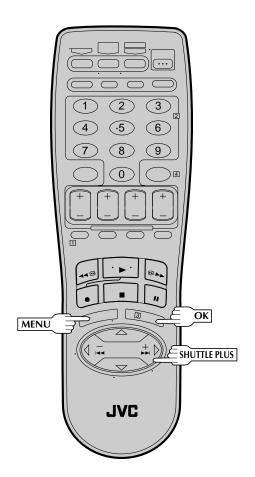
Tape speed indication

"Cassette Loaded" mark

When a cassette is loaded, the mark is displayed for 5 seconds. It blinks when the VCR's EJECT button is pushed.

INDEX indication





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.

ACCESS MAIN MENU SCREEN

Press **MENU**.

ACCESS FUNCTION SET SCREEN

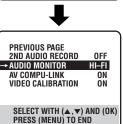
Move the highlight bar (arrow) to "FUNCTION SET" by pressing CH▲▼ or SHUTTLE PLUS△▽, then press OK or **SHUTTLE PLUS** ▷.

SELECT AUDIO MONITOR **SET MODE**

Move the highlight bar (arrow) to "AUDIO MONITOR" by pressing **CH** ▲▼ or **SHUTTLE PLUS** $\triangle \nabla$, then press **OK** or **SHUTTLE PLUS** ▷ to select the desired mode:

- a- Hi-Fi
- b- Hi-Fi L
- c- Hi-Fi R
- d- Normal
- e- Mix

FUNCTION	
→ AUTO TIMER SUPERIMPOSE AUTO SP→EP TIMER VIDEO STABILIZER NEXT PAGE	OFF ON OFF OFF
SELECT WITH (▲,▼) AND (OK) Press (Menu) to end	

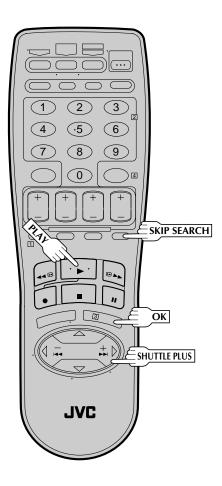


RETURN TO NORMAL **SCREEN**

Press MENU.

NOTES:

- If the tape being played back has no Hi-Fi soundtrack, the Normal soundtrack will be heard no matter what choice you make 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.



ATTENTION

Movie Advance works 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.

> **MOVIE ADVANCE MOVIE ADVANCE CAN NOT** BE SELECTED FOR EP RECORDINGS PRESS (SKIP) TO CANCEL

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.

Patents Pending

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 SHUTTLE **PLUS** $\triangle \nabla$ to move the highlight bar (arrow) to your choice.

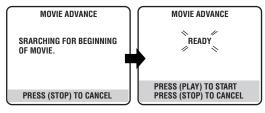
a- Select "MOVIE ADVANCE" if you want to advance directly to the beginning of the

SKIP MENU ➤ MOVIE ADVANCE Movie Advance (Preview) SKIP SEARCH PRESS (▲,▼), THEN (OK) PRESS (SKIP) TO CANCEL

- 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** to go back to the normal screen. Pressing SKIP SEARCH activates the Skip Search function (pg. 25).

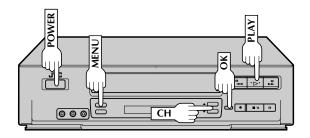
PERFORM MOVIE **ADVANCE**

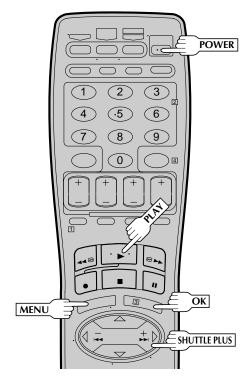
a- If you selected "MOVIE ADVANCE" in step 3 and press OK, the following screen will appear with a blue background. The VCR will rewind the beginning of the tape, then will fast-motion to the beginning of the movie. "READY" will appear and blink when the beginning of the movie is detected and the Stop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

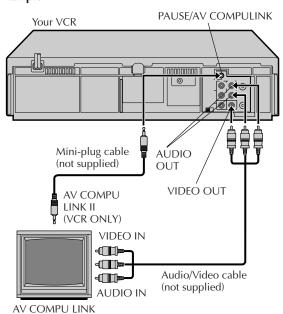
beginning of the next preview, thereby skipping over one preview each time.





Example

Television



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 need not 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 SHUTTLE PLUS△▽ to move the highlight bar (arrow) to "FUNCTION SET", then press OK or SHUTTLE PLUS ▷.

ENABLE AV COMPULINK PLAYBACK

Press CH▲▼ or SHUTTLE **PLUS** $\triangle \nabla$ to move the highlight bar (arrow) to "AV COMPU-LINK", then press OK or SHUTTLE **PLUS** ▷ to set to "ON".

FUNCTION	
→ AUTO TIMER SUPERIMPOSE AUTO SP→EP TIMER VIDEO STABILIZER NEXT PAGE	OFF ON OFF OFF
SELECT WITH (▲,▼) PRESS (MENU) TO EN	AND (OK) D
—	
PREVIOUS PAGE 2ND AUDIO RECORD	OFF

AUDIO MONITOR

AV COMPU-LINK VIDEO CALIBRATION SELECT WITH (▲,▼) AND (OK) PRESS (MENU) TO END

RETURN TO NORMAL SCREEN

Press MENU.

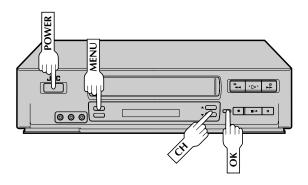
PERFORM AV COMPU LINK PLAYBACK

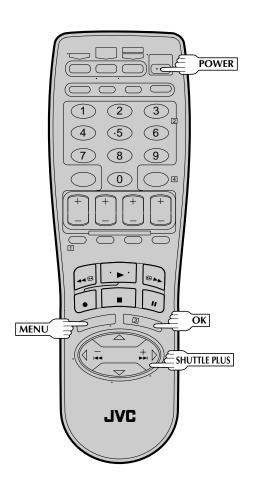
Simply insert a cassette and press **PLAY** (if the cassette's record safety tab has been removed, playback begins automatically). Linked components are turned on, and the TV set to its AV mode, automatically!

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

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

1

TURN ON THE VCR

Press **POWER**.

ACCESS MAIN MENU SCREEN

Press MENU.

9

ACCESS FUNCTION SET SCREEN

Press CH▲▼ or SHUTTLE PLUS △▽ to move the highlight bar (arrow) to "FUNCTION SET", then press OK or SHUTTLE PLUS ▷.

MAIN MENU

→ FUNCTION SET

TUNER SET

INITIAL SET

PRESS (▲,▼), THEN (OK)

PRESS (MENU) TO END

SELECT VIDEO CALIBRATION MODE

4

Press CH ▲▼ or SHUTTLE PLUS △▽ to move the highlight bar (arrow) to "VIDEO CALIBRATION", then press OK or SHUTTLE PLUS ▷ to set to "ON" or "OFF".

NOTE:

When recording or when playing back tapes recorded on this VCR set the Video Calibration to "ON".

FUNCTION	
→ AUTO TIMER	OFF
SUPERIMPOSE	ON
AUTO SP→EP TIMER	0FF
VIDEO STABILIZER	OFF
NEXT PAGE	
SELECT WITH (▲,▼) PRESS (MENU) TO EN	



PREVIOUS PAGE
2ND AUDIO RECORD
AUDIO MONITOR
AV COMPU-LINK

VIDEO CALIBRATION

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

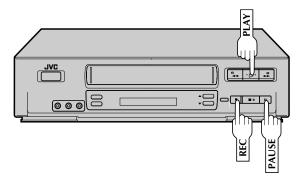
0FF

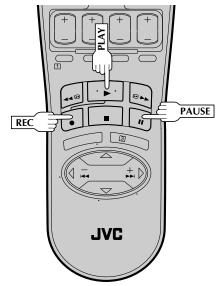
ON

HI-FI

RETURN TO NORMAL SCREEN

Press MENU.





Playback

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

Perform steps 1 and 2 on page 22 ("Simple Playback") before continuing.

START PLAYBACK

Press PLAY.

• The VCR adjusts the playback picture quality based on the quality of the tape in use.



NOTES:

- When using rental tapes, or tapes recorded on other VCRs, set "VIDEO CALIBRATION" in step 4 of the Preparation procedure to either "ON" or "OFF" as desired to give the best picture (pg. 32).
- 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 (pg. 28).

Recording

Perform steps 1 – 3 on page 23 ("Simple Recording") before

START RECORDING DURING CALIBRATION Press and hold REC and

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

• The VCR takes about 7 seconds to assess the quality of the tape in use, then recording begins with the picture level optimized.

START **END** **ACTIVE VIDEO CALIBRATION**

NOTES:

- Calibration occurs immediately prior to both the first SP and the first EP recording after inserting the cassette. It does not take place during recording.
- 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 operative, the PAUSE 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 (F pg. 28).

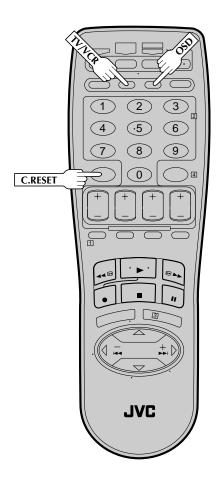
ATTENTION:

- 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
- 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 (pg. 32).

CALIBRATION COMPLETE



Recording Features



Record One Program While Watching Another

1

ENGAGE TV MODE

During recording...

- Press TV/VCR. The VCR's VCR indicator goes out. (If you are using the RF connection (pp. 6) to view the output from your VCR, the TV broadcast being recorded disappears.)

SELECT CHANNEL FOR VIEWING

2

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

Display Elapsed Recording Time

1

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.

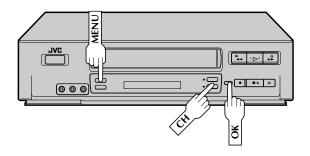
DISPLAY ELAPSED TIME ON SCREEN

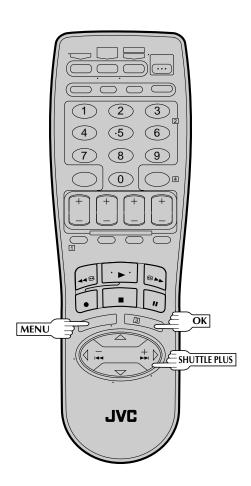
2

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" (F pg. 28).
- The indications are not recorded.





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.

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...

- 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 an 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 (pg. 29).

To Record SAP Programs . . .

ACCESS MAIN MENU SCREEN

Press MENU.

ACCESS FUNCTION SET SCREEN

Move the highlight bar (arrow) to "FUNCTION SET" by pressing CH▲▼ or SHUTTLE PLUS△▽, then press OK or SHUTTLE PLUS ▷.

SELECT 2ND AUDIO RECORD SET MODE

Move the highlight bar (arrow) to "2ND AUDIO RECORD" by pressing CH

▼ or SHUTTLE PLUS

△∇, then press OK or SHUTTLE PLUS ▷ to set to "ON".

FUNCTION	
→ AUTO TIMER SUPERIMPOSE AUTO SP→EP TIMER VIDEO STABILIZER NEXT PAGE	OFF ON OFF OFF
SELECT WITH (♠,▼) PRESS (MENU) TO EN	AND (OK) D



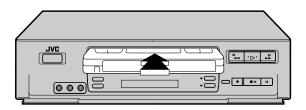
RETURN TO NORMAL SCREEN

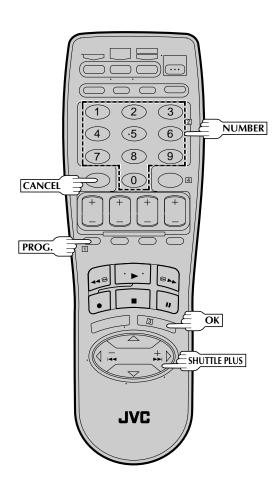
Press MENU.

4

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. (Fig. pg. 36 or 40)

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 PlusCodes are the numbers next to the programs in most TV listings.)

LOAD A CASSETTE

Make sure the record safety tab is present.

• The VCR's power comes on automatically.

ACCESS VCR PLUS+ SCREEN

Press **PROG.** on the remote control.

 The clock must be set in order to access the VCR Plus+ screen. If you haven't set the clock, the Main Menu screen appears after an error message is displayed.



Refer to page 8 for the Plug & Play procedure or page 11 for the clock setting procedure.

ENTER PLUSCODE NUMBER

Press the appropriate

NUMBER keys to enter the
PlusCode number printed
in the TV listings for the
TV program you wish to
record and press OK.

If the Guide Channel Set
screen appears, go to step 4.

If the VCR Plus+ Program
screen appears, go to step 5.



 To make corrections, press CANCEL and input the correct PlusCode number.

INPUT RECEIVING CHANNEL NUMBER

The Guide Channel Number, which is assigned to the TV or cable station for the PlusCode number that you entered in step 3, will appear automatically on the Guide Channel Set screen. Input the number

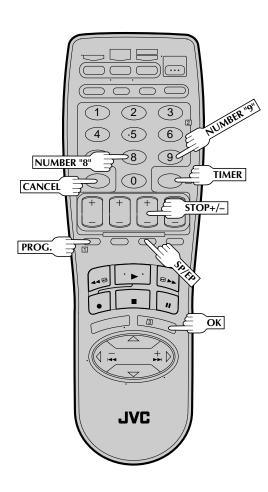
of the channel on which



the broadcast for the PlusCode number is received on the VCR or cable box using the **NUMBER** keys, **CH** $\blacktriangle \blacktriangledown$ or **SHUTTLE PLUS** $\triangle \triangledown$, then press **OK**.

- The Guide Channel Set screen appears only when you input the PlusCode number of a station for which the Guide Channel number has not been set already.
- 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.

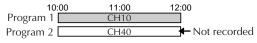
1



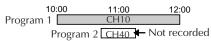
ATTENTION

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

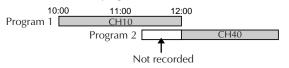
Pattern 1: The program with the lower program number will be recorded.



Pattern 2: The program that is broadcast earlier will be recorded.



Pattern 3: The program that is broadcast earlier will be recorded, followed by the remaining portion of the other program.



CHECK PROGRAM DATA

The PlusCode number you entered and the matching Timer-Recording information is displayed on the Program screen. Check to make sure it's accurate.

PROGRAM 1
(VCR PLUS+ 12345678)
START STOP
8:00PM → 10:00PM
DATE CH
12/24/98 12 SP
THU
PRESS (8=DAILY, 9=WEEKLY
STOP+/-= STOP TIME, SP/EP)
PRESS (0K) TO END

 To change the stop time, press STOP +/-.

- To timer-record daily or weekly serials, press DAILY (NUMBER "8") or WEEKLY (NUMBER "9"). "DAILY" or "WEEKLY" appears on the Program screen. Pressing the button again makes each corresponding display disappear.
- If you made a mistake, press CANCEL to access the VCR Plus+ screen again and input the correct PlusCode number.
- If the PlusCode number you inputted is incorrect, "ERROR" may appear on the screen to advise you of the error. This happens when the PlusCode number is for a program which has already passed. "ERROR" is displayed for about 5 seconds and the VCR Plus+ screen reappears.

SET TAPE SPEED

Press SP/EP.

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 "O" is displayed on the display panel.

IMPORTANT

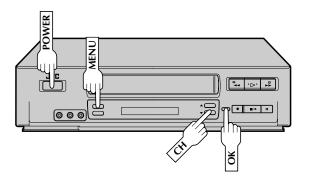
If you have moved to a different area or if a broadcasting station's channel number has been changed, the wrong VCR or CABLE CH number will be displayed on the VCR Plus+ Program screen in step 5. When this happens, set the correct the Guide Channel number for that station. (pg. 38, "VCR Plus+ Setup")

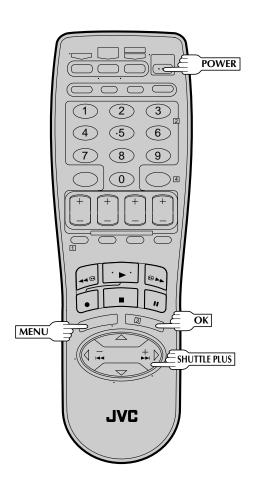
NOTES:

- 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.
- When timer-recording cable channels received through a Cable Box, be sure to keep the Cable Box set to ON.

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 (F step 5 on page 37). 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+ 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.

TURN ON THE VCR Press POWER.

ACCESS MAIN MENU SCREEN

Press **MENU**.

ACCESS INITIAL SET SCREEN

Press CH▲▼ or SHUTTLE PLUS△∇ to move the highlight bar (arrow) to "INITIAL SET", then press OK or SHUTTLE PLUS ▷. MAIN MENU

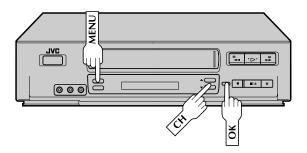
FUNCTION SET

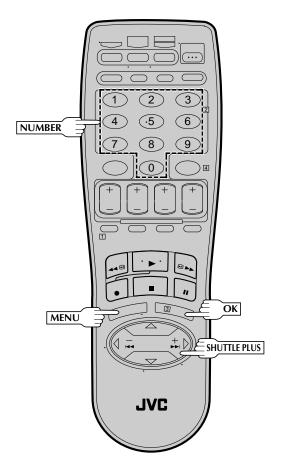
TUNER SET

→ INITIAL SET

PRESS (A, ▼), THEN (OK)

PRESS (MENU) TO END





ACCESS GUIDE CHANNEL SET SCREEN

Press CH▲▼ or SHUTTLE
PLUS△▽ to move the
highlight bar (arrow) to
"GUIDE CHANNEL SET",
then press OK or SHUTTLE
PLUS ▷.

INITIAL SET

CLOCK SET
LANGUAGE ENGLISH

--GUIDE CHANNEL SET
CABLE BOX SET
DBS RECEIVER SET

SELECT WITH (A, V) AND (OK)
PRESS (MENU) TO END

INPUT GUIDE CHANNEL NUMBER

Press CH▲▼, SHUTTLE
PLUS△▽ or the appropriate
NUMBER keys to input the
VCR Plus+ Guide Channel
number as shown in the
TV listing. Then press OK
or SHUTTLE PLUS ▷.

 If you receive your channels with a cable box and if you have properly set your
 Controller "CABLE CH (Ex.) When inputting the Guide Channel number 6 for WNJU(Ind.)

GUIDE CHANNEL SET

GUIDE CH: 6

VCR CH: --
PRESS NUMBER KEY (0-9)

OR (△,▼), THEN (0K)

PRESS (MENU) TO END

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

Press CH▲▼, SHUTTLE PLUS△▽ or the appropriate NUMBER keys to input the number of the channel on which the Guide Channel's broadcasts are received. Then press OK or SHUTTLE PLUS ▷.

• Repeat steps **5** and **6** for each instance.

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

GUIDE CHANNEL SET

GUIDE CH \$\infty 6 \tag{VCR CH} : 47

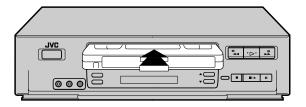
PRESS NUMBER KEY (0-9) OR (▲,▼), THEN (OK) PRESS (MENU) TO END

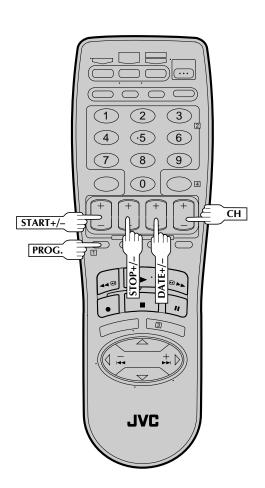
RETURN TO NORMAL SCREEN

Press MENU.

Express Timer Programming

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





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 set before you can program the timer (pp. 8 or 11).

LOAD A CASSETTE

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

 The VCR comes on, and the counter is reset, automatically.

ACCESS VCR PLUS+ SCREEN

Press **PROG.**

ACCESS PROGRAM SCREEN

Press **START** +/-. (If you're just starting out, "PROGRAM 1" appears.)

SET PROGRAM START TIME

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

 Press and hold START +/- to move in 30minute increments, or press and release repeatedly to move 1 minute at a time.



SET PROGRAM STOP TIME

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

 Press and hold STOP +/- to move in 30-minute increments, or press and release repeatedly to move 1 minute at a time.

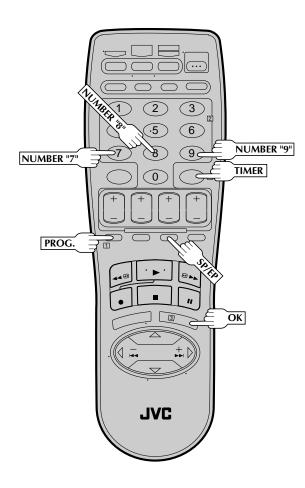
SET PROGRAM DATE

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

SET CHANNEL NUMBER

Press CH +/-.

- If you are using a DBS receiver, see "ATTENTION FOR DBS RECEIVER USERS" on next page.
- Holding down CH +/- rapidly scans through the channels.



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 "②" 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 FOR DBS RECEIVER USERS

If you are using a DBS receiver (unless "DBS RECEIVER SET" is set to "OFF" F. 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

PROGRAM 1

START

8:00AM

DATE

110

SP

THU

PRESS (+/-, SP/EP, 8=DAILY,
9=WEEKLY, 7=DBS), THEN (0K)
PRESS (PROG.) TO END

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" \$\mathbb{C}\$ pg.17).

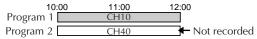
c– DBS : To timer-record a satellite program received through a DBS receiver.

• If "BAND" is set to "TV" at the Tuner Set screen (pg.14) and "CABLE BOX SET" is set to "OFF" at the Cable Box Set screen (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.

ATTENTION

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

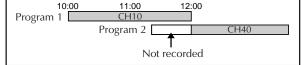
Pattern 1: The program with the lower program number will be recorded.

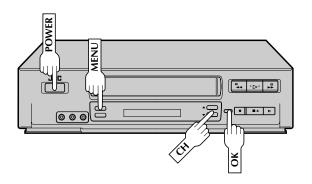


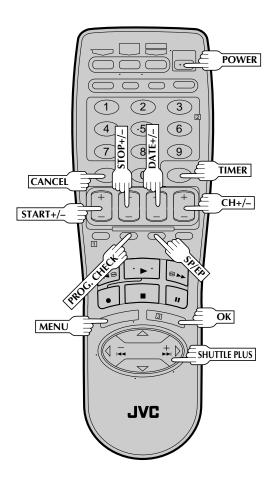
Pattern 2: The program that is broadcast earlier will be recorded.



Pattern 3: The program that is broadcast earlier will be recorded, followed by the remaining portion of the other program.







Check, Cancel And Revise Programs

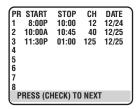
1

DISENGAGE TIMER

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

ACCESS PROGRAM CHECK SCREEN

Press PROG. CHECK.



ACCESS PROGRAM SCREEN

3

Press **PROG. CHECK** again to check more information. Each time you press **PROG. CHECK**, the next program's information appears.

To Cancel Or Revise A Program...

CANCEL OR REVISE A PROGRAM

To cancel a program, press **CANCEL**. To revise a program, press the appropriate button: **START+/-**, **STOP+/-**, **DATE+/-**, **CH+/-**, **SP/EP**.

RETURN TO NORMAL SCREEN

5

Press **PROG. CHECK** as many times as necessary. If there are still programs remaining, go to step **6**.

RE-ENGAGE TIMER

Press **TIMER**.

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 120-minute 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.

ACCESS MAIN MENU SCREEN

Press **MENU**.

ACCESS FUNCTION SET SCREEN

Move the highlight bar (arrow) to "FUNCTION SET" by pressing CH ▲▼ or SHUTTLE PLUS △▽, then press OK or SHUTTLE PLUS ▷.

SELECT AUTO SP→EP TIMER SET MODE

Move the highlight bar (arrow) to "AUTO SP→EP TIMER" by pressing CH ▲▼ or SHUTTLE PLUS △∇, then press OK or SHUTTLE PLUS ▷ to set to "ON"

FUNCTION	
AUTO TIMER SUPERIMPOSE	OFF ON
→ AUTO SP→EP TIMER	ON
VIDEO STABILIZER Next page	OFF
SELECT WITH (▲,▼) AND (OK) PRESS (MENII) TO END	

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.

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.

ACCESS MAIN MENU SCREEN

Press **MENU**.

ACCESS FUNCTION SET SCREEN

Move the highlight bar (arrow) to "FUNCTION SET" by pressing CH▲▼ or SHUTTLE PLUS△▽, then press OK or SHUTTLE PLUS ▷.

SELECT AUTO TIMER SET MODE

Move the highlight bar (arrow) to "AUTO TIMER" by pressing CH ▲▼ or SHUTTLE PLUS△▽, then press OK or SHUTTLE PLUS ▷ to set to "ON" or "OFF".

FUNCTION	
→ AUTO TIMER SUPERIMPOSE AUTO SP→EP TIMER VIDEO STABILIZER NEXT PAGE	OFF ON OFF OFF
SELECT WITH (▲,▼) PRESS (MENU) TO EN	

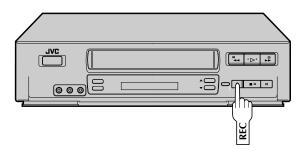
RETURN TO NORMAL SCREEN

Press MENU.

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.

1

START RECORDING

Press **REC** on the front panel.

ENGAGE ITR MODE

Press **REC** again. " \(\) " blinks and 0:30 appears on the front display panel.

SET RECORDING DURATION

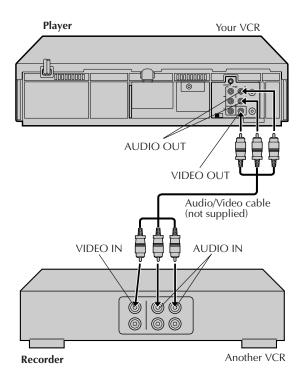
If you want to record for more than 30 minutes, press **REC** to extend the time. Each press extends recording time by 30 minutes.

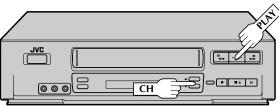
NOTES:

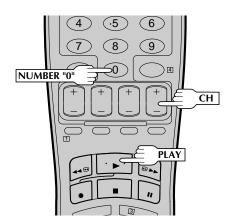
- You can only perform ITR using the REC button on the VCR's front panel.
- After you set the ITR time, the previous display reappears.
- To check the remaining time, press **REC** once during recording and the remaining time will be displayed for about 5 seconds. Be careful not to press **REC** again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

EDITING $_{\scriptscriptstyle EN}\,45$

Edit To Or From Another VCR







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

1

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.

 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.

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** (pg. 28).

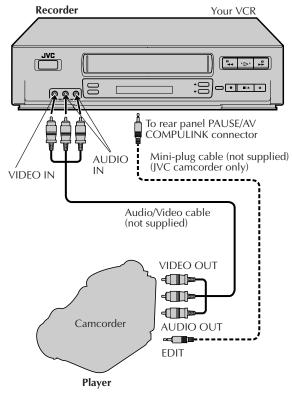
START RECORDER

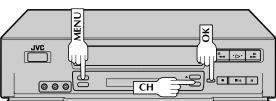
Set to its record mode.

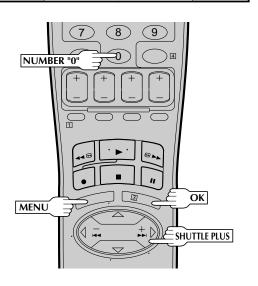
5

 $46_{\it EN}$ EDITING (cont.)

Edit From A Camcorder







You can use a camcorder as the player and your VCR as the recorder.

MAKE CONNECTIONS

Connect an AV cable between the camcorder's VIDEO OUT and AUDIO OUT connectors and your VCR's VIDEO IN and AUDIO IN connectors.

- When a Master Edit Control-equipped JVC camcorder is used, the camcorder is capable of controlling your VCR.
 The mini-plug cable is a mono 3.5 mm mini-plug to mono 3.5 mm mini-plug connector.
- If connecting to a camcorder with a monaural output, connect the audio output connector on the camcorder to AUDIO IN L of the VCR.

LOAD A CASSETTE

Insert the cassette to be recorded on into the recorder.

SET RECORDER'S INPUT MODE

Set to "AUX". 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.

If you're using a JVC Master Edit Control-equipped camcorder — step 4
If not — step 8

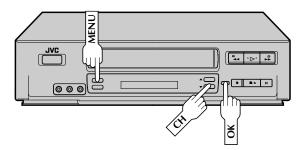
ACCESS MAIN MENU SCREEN

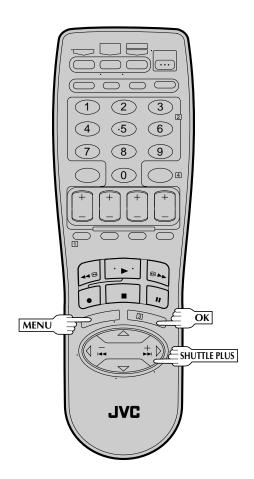
Press **MENU**.

ACCESS FUNCTION SET SCREEN

Press CH ▲▼ or SHUTTLE PLUS △▽ to move the highlight bar (arrow) to "FUNCTION SET", then press OK or SHUTTLE PLUS ▷.

7



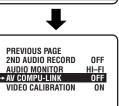


ENABLE REMOTE PAUSE FUNCTION

Press CH ▲▼ or SHUTTLE PLUS △▽ to move the highlight bar (arrow) to "AV COMPU-LINK", then press OK or SHUTTLE PLUS ▷ to set to "OFF".

● The PAUSE/AV COMPULINK connector works as the AV Compulink Playback connector when "AV COMPULINK" is set to "ON" (☐ pg. 31), and works as the Remote Pause connector when "AV COMPULINK" is set to "OFF".

FUNCTION	
→ AUTO TIMER SUPERIMPOSE AUTO SP→EP TIMER VIDEO STABILIZER NEXT PAGE	OFF ON OFF OFF
SELECT WITH (▲,▼) PRESS (MENU) TO EN	AND (OK ID



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

RETURN TO NORMAL SCREEN

Press MENU.

START PLAYER

Set the camcorder to its play mode.

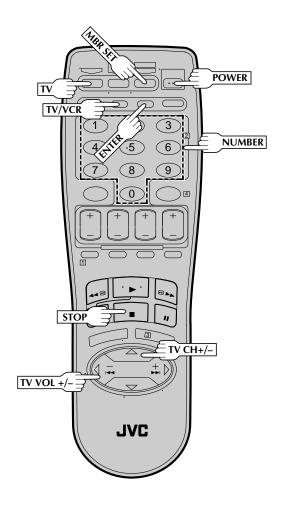
NOTE:

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.)



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. *The default setting is JVC code 01.

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

Follow the example shown below. Check if the TV's power goes off as it should. If it does, try other operations (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.
- PANASONIC has two codes. If the TV does not function with one code, try entering the other.

OPERATE TV

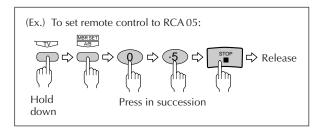
First, while holding down TV, press the corresponding button: POWER, TV CH +/-, TV/VCR, TV VOL +/-, **NUMBER** keys.

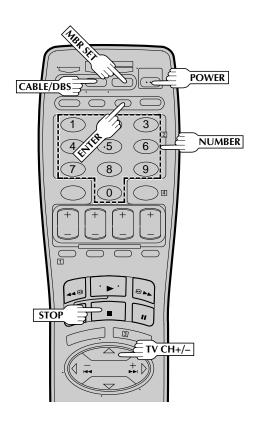
• For some brands of TV, you must press **ENTER** after having pressed the **NUMBER** keys.

NOTE:

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

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





CABLE BOX BRAND NAME	BRAND CODE
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	05, 16, 24
TOCOM	01, 04, 16
UNIKA	01, 17
UNIVERSAL	16, 17, 25
VIDEOWAY	03, 09, 22
ZENITH	03, 09, 22

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.

1

TURN ON THE CABLE BOX

Turn the power on using the cable box's remote control.

2

ENTER CABLE BOX BRAND

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

Follow the example shown below.

Check if the cable box's power goes off as it should. 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.

2

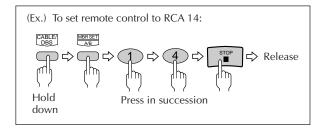
OPERATE CABLE BOX

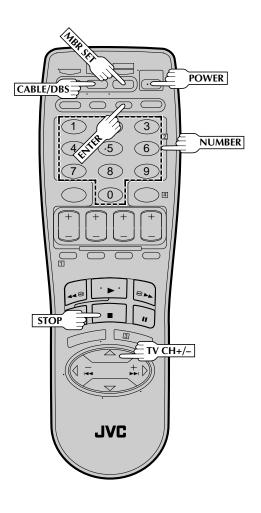
First, while holding down **CABLE/DBS**, press the corresponding button: **POWER**, **TV CH +/-**, **NUMBER** keys.

- 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. Check if the DBS receiver's power goes off as it should. If it does, try other operations (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.

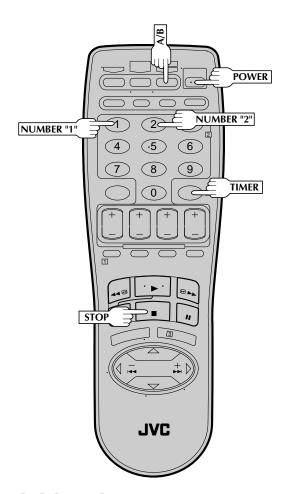
- Depending on the DBS receiver you may have to press ENTER after having pressed the NUMBER keys.
- To change the DBS receiver's channel, press TV CH +/- or the NUMBER keys. (The CH +/- button can be used to change the VCR's channel only.)

NOTES:

- 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

(Ex.) To set rem	ote control to JVC 51:
CABLE/ MBR SE A/B	
T+T	Release
(''')) (m) (m) (m)
Hold	Press in succession
down	



Child Lock

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

1

TURN VCR POWER ON

Press **POWER**.

7

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.

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 **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 (Step 2).

52 EN

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 Auto Timer set to "OFF" (□ pg. 43). 	Press TIMER to disengage.
power won't come on.	The Child Lock mode is engaged. • The Child Lock mode is engaged.	Press and hold POWER on the remote to disengage the mode (pg. 51).
3. The remote control won't function.	• The batteries are discharged.	Replace the dead batteries with new ones. Set the switch to the position.
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 (IF pg. 6), the channel selector on the TV is set incorrectly. If you're using the AV connection (IF 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. Noise appears during visual search.	• This is normal.	
Breaks are noticeable in Hi-Fi soundtrack.	Automatic tracking is engaged.	Disengage Auto Tracking and adjust the tracking manually (127 pg. 25).
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.
5. The Hi-Fi soundtrack cannot be heard.	 The AUDIO MONITOR option was set incorrectly. 	Set AUDIO MONITOR to "HI-FI" (にず pg. 29).
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.
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. The recorder's input mode has been set incorrectly. 	Refer to the directions and the illustration under "Edit To Or From Another VCR" (F pg. 45) or "Edit From A Camcorder" (F pg. 46) and properly connect the units. Make sure the power to all units is on. Select the recorder's appropriate input mode.

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 ⊕ 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 (□ pg. 38).
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 oo 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 reprogram 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 (pg. 16). After confirming your cable box's output channel number, re-access the Cable Box Set screen and select the correct number (pg. 17). Make sure the power is on before timer recording starts.
Satellite channels are not automatically 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 (Fig. pg. 19). After confirming your DBS receiver's output channel number, re-access the DBS Receiver Set screen and select the correct number (Fig. pg. 20). Set the correct DBS Receiver brand code (Fig. pg. 21). Make sure the power is on before timer recording starts.
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" (□ 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 (CF pg. 38).
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 (□ pg. 42).

OTHER PROBLEMS		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
When scanning channels, some of them are skipped over.	 Those channels have been preset to be skipped. 	If you need the skipped channels, restore them (F) pg. 15).
2. The channel can't be changed.	• Recording is in progress.	Press PAUSE to pause the recording, change channels, then press PLAY to resume recording.
The remote control won't operate my TV or cable box or DBS receiver.	The remote control brand setting is incorrect.	Re-set the remote control to the correct brand (pg. 48 or 49 or 50).
Even though Auto or Semi-Auto clock setting has been selected, the clock is incorrect.	The clock setting data received from the Host Channel is incorrect.	Select a different Host Channel during the Semi-Auto setting procedure (pp. 12), or perform the Manual setting procedure (pp. 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.

QUESTIONS AND ANSWERS

EN 55

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, slow, still and frame-by-frame playback, I can't hear any audio. What's the problem? **A.** This is normal. 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 returning from multi-speed search to normal playback, the picture is disturbed. Should I be concerned about this? **A.** No, it is normal. Q. Noise bars appear during multi-speed search. What's the problem? A. This is normal. 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.

indicators) may occur.

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

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
- 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.

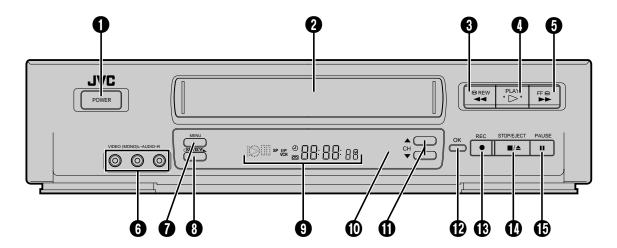
List Of Terms

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

<u>A</u>
A/B Code51
Active Video Calibration32
Add Channel15
Audio Monitor29
Auto Channel Setting14
Auto Daylight Saving Time12
Auto SP DEP Timer
Auto Timer43
Automatic Tracking25
Aux Input45
AV Compu Link Playback31
AV Connection6
В
Band
C
Cable Box
Cable Box Brand Setting
Cable Box Controller
Cancel Program42
Cassette Adapter
Check Program
Child Lock
Connection to TV
Contents
Counter Reset
D.
2
DBS Receiver
DBS Receiver Brand Setting21
DBS Receiver Controller
Delete Channel
<u>E</u>
Editing45
Express Timer Programming40
Express Timer Recording40
,
Frame-by-Frame Playback
Guide Channel Setting
<u>H</u>
Host Channel Selection
<u> </u>
Index Search25
Insert Cassette
Instant ReView25
ITR (Instant Timer Recording)44
L
Language Selection
Language SelectionIU

M	
Main Menu Manual Channel Setting Manual Clock Setting Manual Tracking MBR (Multi-Brand Remote) Code Setting Movie Advance	15 13 25
N	
Next-Function Memory	27
O	
On-Screen Display P	
PBS ChannelPlaybackPlug & Play	22
R	
Record Safety Tab Recording Repeat Playback Reverse Motion Playback Reverse Slow Motion Playback RF Connection	23 27 24
S	
SAP (Second Audio Program) Second Audio Select Cable Box Output Channel Select DBS Receiver Output Channel Semi-Auto Clock Setting Skip Search Slow Motion Playback Specifications SQPB (S-VHS Quasi Play Back) Still Picture Playback Superimpose T Tape Position Indicator Tape Speed Setting Time Zone Selection	351720252460222428
Tuner Setting	13
V	
Variable-Speed Search	36 36

FRONT VIEW

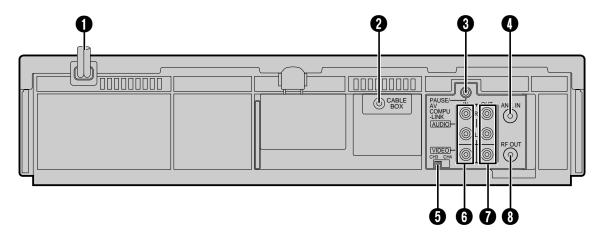


- Power On/Off Button (□ pg. 10)
 Cassette Loading Slot
 Rewind [REW] Button (□ pg. 22)

- 1 PLAY Button (□ pg. 22)
 5 Fast-Forward [FF] Button (□ pg. 22)
 6 VIDEO/AUDIO Input Connectors (□ pg. 46)
- 7 MENU Button (☐ pg. 10)8 Instant REVIEW Button (☐ pg. 25)

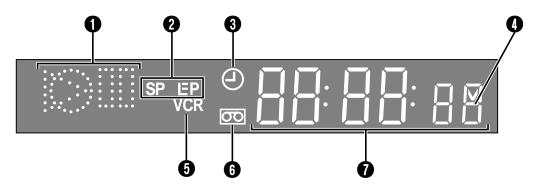
- **9** Front Display Panel (□ pg. 58)
- Remote Control Sensor
 Channel [CH] ▲▼ Button (□ pg. 23)
- (2) OK Button (pg. 10)
 (3) Record [REC] Button (pg. 23)
 (4) STOP/EJECT Button (pg. 22)
- PAUSE Button (F pg. 24)

REAR VIEW



- Power Cord (© pg. 6)
- 2 CABLE BOX Controller Connector (pg. 16, 19)
- **3** PAUSE/AV COMPULINK Connector
 - Remote PAUSE Connector (☐ pg. 46)
 - AV COMPU-LINK Connector (pg. 31)
- **4** ANT. IN Connector (☐ pg. 6)
- **5** Channel 3/4 Switch (pg. 6)
- 6 VIDEO/AUDIO Input Connectors (pg. 45)
- VIDEO/AUDIO Output Connectors (F pg. 45)
- 8 RF OUT Connector (pg. 6)

FRONT DISPLAY PANEL



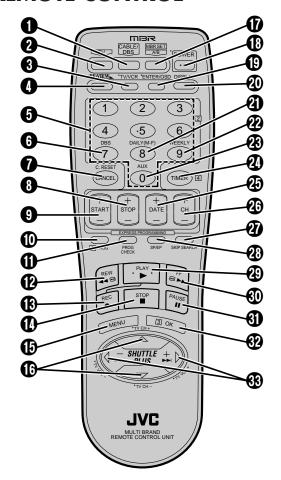
1 Symbolic Mode Indicators

PLAY: FF/REW VARIABLE SEARCH:		STILL: SLOW:	>11
		RECORD:	\bigcirc
		RECORD PAUSE:	

- 2 Tape Speed Indicators (pg. 23)
- 3 Timer Mode Indicator
- **4** Child Lock Indicator (□ pg. 51)
- **5** VCR Mode Indicator (pg. 34)
- **6** "Cassette Loaded" Mark
- The Channel Display ["L-1" and "F-1" for AUX mode]

Counter Display (pg. 8) Clock Display (pg. 8)

REMOTE CONTROL



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. © pg. 48

- 1 CABLE/DBS Button (Fg. 49, 50)
- **2** TV Button (**pg.** 48)
- **3** TV/VCR Button (□ pg. 34)
- Instant REVIEW Button (□ pg. 25)
- **6** NUMBER Buttons (☐ pg. 23, 36)
- **6** DBS Button (**□** pg. 41)
- 7 CANCEL Button (pg. 42)

Counter [C.] RESET Button (pg. 27)

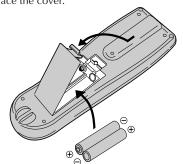
- **8** STOP +/− Button (🖙 pg. 40)
- **9** START +/− Button (🖙 pg. 40)
- **1** PROG. Button (pg. 36, 40)
- 1 PROG. CHECK Button (F) pg. 42)
- Rewind [REW] Button (pg. 22)
- Record [REC] Button (□ pg. 23)
- **⚠** STOP Button (□ pg. 22)
- (MENU Button (pg. 10)
- SHUTTLE PLUS $\triangle \nabla$ Button (\square pg. 10) TV Channel [CH] +/- Button (\square pg. 48, 49, 50)
- **1** MBR SET Button (□ pg. 48, 49, 50) A/B Code Button (□ pg. 51)
- 18 POWER On/Off Button (F pg. 10)
- © ENTER Button (pg. 23) On-Screen Display [OSD] Button (pg. 28)
- 20 DISPLAY Button (pg. 27)
- ② DAILY Timer Recording Button (pg. 37, 41)
- WEEKLY Timer Recording Button (pg. 37, 41)
- ② "AUX" Mode Select Button (☐ pg. 45)
- **②** TIMER Button (127 pg. 37, 41)
- **②** DATE +/− Button (□ pg. 40)
- **②** Channel [CH] +/− Button (□ pg. 23, 40)
- SKIP SEARCH Button (r pg. 25, 30)
- Recording Speed [SP/EP] Button (pg. 23)
- 29 PLAY Button (pg. 22)
- Fast-Foward [FF] Button (pg. 22)
- PAUSE Button (F pg. 24)
- **32** OK Button (**□** pg. 10)
- **③** SHUTTLE PLUS **→→** (⟨⟨⟩) Button (□ pg. 24, 25)

TV Volume [VOL.] +/- Button (F) pg. 48)

Installing Batteries

- Open the battery compartment cover.
- Insert 2 "AA"-size batteries (provided) in the direction indicated under the battery cover.

3 Replace the cover.



How To Use

The remote control can operate most of your VCR's functions.

- 1 Point the remote control toward the sensor window.
- Press the appropriate operation button.
- 3 The maximum operating distance of the remote control is about 8 m.

NOTES:

- This remote control can also operate various brands of TVs, Cable Boxes and DBS Receivers. For instructions, □ pg. 48 – 50.
- If the remote control doesn't work properly, remove its batteries, wait a short time, replace the batteries and then try again.



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)

: -20°C to 60°C (-4°F to140°F) Storage Operating position : Horizontal only

Dimensions (W x H x D) : 400 x 94 x 273 mm

(15-3/4" x 3-3/4" x 10-3/4")

Weight : 3.1 kg (6.9 lbs) Format : VHS NTSC standard

Maximum recording time

: 210 min. with ST-210 video SP

cassette

ΕP : 630 min. with ST-210 video

cassette

VIDEO/AUDIO

Signal system : NTSC-type color signal and

EIA monochrome signal, 525

lines/60 fields

Recording/

Playback system : DA-4 (Double Azimuth) head

helical scan system

Signal-to-noise ratio : 45 dB Horizontal resolution : 240 lines

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)

TUNER

Tuning system

Channel coverage

VHF : Channels 2-13 UHF : Channels 14-69

: 113 Channels **CATV** : Channel 3 or 4 (switchable; RF output

preset to Channel 3 when

: Frequency-synthesized tuner

shipped) 75 ohms,

unbalanced

TIMER

Clock reference : Quartz

Program capacity : 1-year programmable timer/

8 programs

Memory backup time : Approx. 10 min.

ACCESSORIES

Provided accessories : RF cable (F-type),

Infrared remote control unit,

"AA" battery x 2, Controller

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

HOW TO LOCATE YOUR JVC SERVICE CENTER

TOLL FREE: 1-800-252-5722 ____

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

JVC SERVICE & ENGINEERING **COMPANY OF AMERICA** DIVISION OF US JVC CORP.

FACTORY SERVICE CENTER LOCATIONS

107 Little Falls Road Fairfield, NJ 07004-2105

(973) 808-9279

5665 Corporate Avenue Cypress, CA 90630-4727

(714) 229-8011

230 Eliot Street Ashland, MA 01721-2377

(508) 881-5923

1500 Lakes Parkway Lawrenceville, GA 30243-5857

(770) 339-2522

10700 Hammerly Boulevard, Suite 110 Houston, TX 77043-2310

(713) 935-9331

8192 W State Road 84 Davie, FL 33324-4611 (954) 472-1960

705 Enterprise Street Aurora, IL 60504-8135 (630) 851-7855

2969 Mapunapuna Place, Suite 101 Honolulu, HI 96819-2000

(808) 833-5828

890 Dubuque Avenue

South San Francisco, CA 94080-1804

(415) 871-2666

Sophisticated electronic products may require occasional service. Just as quality is a keyword in the engineering and production of the wide array of JVC products, service is the key to maintaining the high level performance for which JVC is world famous. The JVC service and engineering organization stands behind our products.

> NATIONAL HEADQUARTERS JVC SERVICE & ENGINEERING COMPANY OF AMERICA DIVISION OF US JVC CORP. 107 Little Falls Road 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 WARRANTY

CONSUMER VIDEO 1-90

JVC COMPANY OF AMERICA warrants this product and all parts thereof, except as set forth below ONLY TO THE ORIGINAL PURCHASER AT RETAIL to be FREE FROM DEFECTIVE MATERIALS AND WORKMANSHIP from the date of original retail purchase for the period as shown below. ("The Warranty Period")

PARTS 1 YR LABOR 90 DAYS

THIS LIMITED WARRANTY IS VALID ONLY IN THE FIFTY (50) UNITED STATES, THE DISTRICT OF COLUMBIA AND IN COMMONWEALTH OF PUERTO RICO.

WHAT WE WILL DO:

If this product is found to be defective, JVC will repair or replace defective parts at no charge to the original owner. Such repair and replacement services shall be rendered by JVC during normal business hours at JVC authorized service centers. Parts used for replacement are warranted only for the remainder of the Warranty Period. All products and parts thereof may be brought to a JVC authorized service center on a carry-in basis except for Television sets having a screen size 25 inches and above which are covered on an in-home basis.

WHAT YOU MUST DO FOR WARRANTY SERVICE:

Return your product to a JVC authorized service center with a copy of your bill of sale. For your nearest JVC authorized service center, please call toll free: (800) 252-5722.

If service is not available locally, box the product carefully, preferably in the original carton, and ship, insured, with a copy of your bill of sale plus a letter of explanation of the problem to the nearest JVC Factory Service Center, the name and location of which will be given to you by the toll-free number.

If you have any questions concerning your JVC Product, please contact our Customer Relations Department.

WHAT IS NOT COVERED:

This limited warranty provided by JVC does not cover:

- 1. Products which have been subject to abuse, accident, alteration, modification, tampering, negligence, misuse, faulty installation, lack of reasonable care, or if repaired or serviced by anyone other than a service facility authorized by JVC to render such service, or if affixed to any attachment not provided with the products, or if the model or serial number has been altered, tampered with, defaced or removed:
- 2. Initial installation and installation and removal for repair;
- 3. Operational adjustments covered in the Owner's Manual, normal maintenance, video and audio head cleaning;
- 4. Damage that occurs in shipment, due to act of God, and cosmetic damage;
- 5. Signal reception problems and failures due to line power surge;
- 6. Video Pick-up Tubes/CCD Image Sensor, Cartridge, Stylus (Needle) are covered for 90 days from the date of purchase;
- 7. Accessories:
- 8. Batteries (except that Rechargeable Batteries are covered for 90 days from the date of purchase); from the date of purchase);

There are no other express warranties except as listed above.

THE DURATION OF ANY IMPLIED WARRANTIES INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY, IS LIMITED TO THE DURATION OF THE EXPRESS WARRANTY HEREIN.

JVC SHALL NOT BE LIABLE FOR THE LOSS OF USE OF THE PRODUCT, INCONVENIENCE, LOSS OR ANY OTHER DAMAGES, WHETHER DIRECT, INCIDENTAL OR CONSEQUENTIAL (INCLUDING, WITHOUT LIMITATION, DAMAGE TO TAPES, RECORDS OR DISCS) RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, ARE LIMITED TO THE WARRANTY PERIOD SET FORTH ABOVE.

Some states do not allow the exclusion of incidental or consequential dameges or limitations on how long an implied warranty lasts, so these limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

JVC COMPANY OF AMERICA DIVISION OF US JVC CORP.

41 Slater Drive Elmwood Park, New Jersey 07407

REFURBISHED PRODUCTS CARRY A SEPARATE WARRANTY, THIS WARRANTY DOES NOT APPLY. FOR DETAILS OF REFURBISHED PRODUCT WARRANTY, PLEASE REFER TO THE REFURBISHED PRODUCT WARRANTY INFORMATION PACKAGED WITH EACH REFURBISHED PRODUCT.

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:			

МЕМО		



JVC COMPANY OF AMERICA DIVISION OF US JVC CORP. 41 Slater Drive, Elmwood Park, N.J. 07407

JVC CANADA INC.

21 Finchdene Square, Scarborough Ontario M1X 1A7