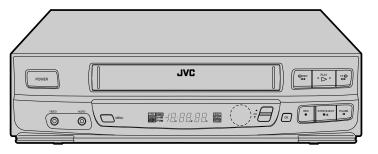


### **VIDEO CASSETTE RECORDER**

# HR-VP436U











#### For Customer Use:

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

Model No. HR-VP436U

Serial No.

PU30425-1781





#### 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 FLECTRIC 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. DO NOT 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.

#### \*\*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

VCR Plus+C<sup>3</sup> and PlusCode are trademarks of Gemstar Development Corporation.

The VCR Plus+C<sup>3</sup> system is manufactured under licence from Gemstar Development Corporation.





- Cassettes marked "VHS" (or "S-VHS") can be used with this video cassette recorder. However, only "VHS" recordings can be played back in this model.
- HQ VHS is compatible with existing VHS equipment.









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.

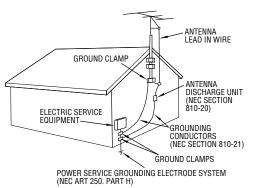
### 2. Lightning

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

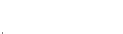
An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or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

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



NEC - NATIONAL ELECTRICAL CODE









### **USE**

#### 1. Accessories

To avoid personal injury:

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

#### 2. Product and Cart Combination

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





#### 3. Water and Moisture

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

#### 4. Object and Liquid Entry

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

### 5. Attachments

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

#### 6. Cleaning

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

#### 7 Heaf

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 51–53 lists frequently-used terms, and the number of the first 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





5

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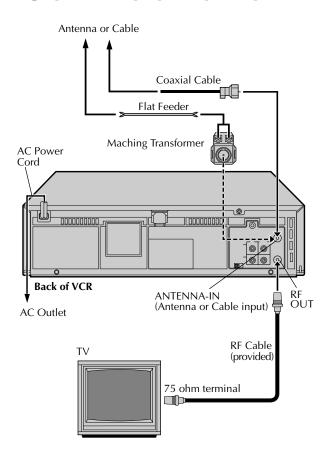
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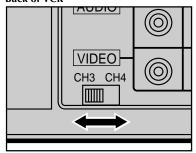




### Basic Connections







### **CHECK CONTENTS**

Make sure the package contains all of the accessories listed in "SPECIFICATIONS" ( pg. 50).

### 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.

#### **AV Connection**

- 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 (not supplied) between the AUDIO OUT and VIDEO OUT jacks on the rear of the VCR and the AV IN jacks on the TV.

# CONNECT VCR TO POWER SOURCE

Connect the power plug to an AC outlet.

• The clock will automatically be set when the antenna is connected and when the AC is first connected to the VCR (LF pg. 7).

### FINAL PREPARATION FOR USF

Select the VCR channel (3 or 4) by setting the switch on the rear of the VCR as shown in the illustration.

Turn on the power to the TV. You are now able to perform simple playback ( pg. 22) and recording ( pg. 23). (If 'Auto' is displayed on the front display panel, the clock is being set automatically. Wait for the time to be displayed before powering on the VCR.)

### **NOTES:**

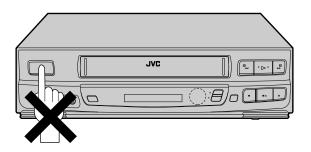
- The VCR channel is the channel on the TV which will display the audio and video signals from the VCR. The VCR's CH3-CH4 switch sets the VCR channel to CH3 or CH4.
- The CH3–CH4 switch is preset to the CH3 position. Set to CH4 if CH3 is used for broadcasting in your area.
- If your TV has no AV input terminals, set the channel on the TV to correspond to the CH3–CH4 switch on the back of the VCR.
- Even if your TV has AV input terminals, you must connect it to the VCR using an RF cable in order to record one show while watching another @ pg. 33).
- while watching another (☐ pg. 33).

   For full identification of the VCR's rear panel, refer to the Index (REAR VIEW ☐ pg. 52).





### **Dual Quick Set**



#### **IMPORTANT**

- Don't press any buttons on the VCR or remote during Dual Quick Set.
- If you perform Dual Quick Set successfully, there's no need to perform the Clock ( pg. 8) and Tuner ( pg. 12) procedures. If, however, you want to add or delete channels, refer to "Add Or Delete A Channel" on page 14.

#### ATTENTION CABLE BOX SUBSCRIBERS

If you perform the Dual Quick Set procedure . .

- Select the PBS channel on your cable box before plugging your VCR's power plug into the AC outlet. (If you have more than one PBS channel, you may have to select an alternative PBS channel if Dual Quick Set is not successful.)
- If there is no PBS channel in your area, perform the Manual Clock Set procedure ( pg. 11).
- For automatic clock adjustment to take place the VCR's power must be off and the cable box must be set to the PBS channel at clock adjustment times.
- If you perform Dual Quick Set successfully, D.S.T. will be set to "AUTO". At the D.S.T. adjustment time (□ pg. 10), your VCR's power must be off and your cable box must be set to the host PBS channel in your area for the D.S.T. adjustment to take place. If the clock is not set correctly, change the D.S.T. setting to "ON" or "OFF. See step 6 of Semi-Auto procedure (□ pg. 9) or step 3 of Manual procedure (□ pg. 11).

With the antenna cable connected the Dual Quick Set function allows the clock and tuner to be set automatically when the power plug is first connected to an AC outlet.

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.

The auto clock set function scans all the channels received by your VCR to find the clock setting data of the Host Channel.

The auto channel set function scans all the channels received by your VCR, then automatically assigns receivable channels to the CH▲▼ buttons, and skips non-receivable channels.

### PERFORM DUAL QUICK SET

Make sure that the antenna cable is connected to the VCR. Then connect the VCR's power plug to an AC outlet. For connection configuration, refer to "Basic Connections" (Fig. 6). The clock and tuner channels will automatically be set.

- Auto clock set is performed first. AUTO is displayed on the Front Display Panel during Auto clock set. Auto Channel set is performed next. The channel numbers are displayed in ascending order during auto channel set. When Dual Quick Set has been completed successfully the correct time is displayed.
- The clock can be adjusted automatically by the Host PBS 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.)
- 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 procedure (F) pg. 9). Auto channel set (F) pg. 12) 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, there may not be a Host PBS signal available in your area, or your cable box may not be set to the PBS channel. If everything is connected and set correctly, perform the Manual Clock Set procedure ( pg. 11). Auto channel set has not yet taken place, so please also perform the "Set Receivable Channels" procedure ( pg. 12).







**During Auto Channel Set**The channels appear in
ascending order, beginning
with 1



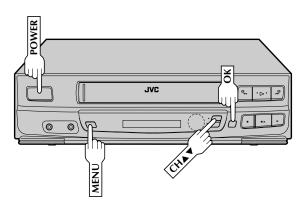


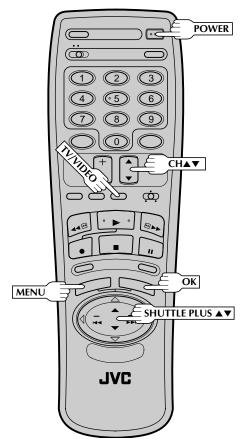
**Dual Quick Set Completed**The current time (including AM/PM) is displayed.





### Clock





### **Preparation**

### TURN ON THE VCR

Press **POWER**. If watching channel 3 or 4, press **TV/VIDEO** to select the VIDEO mode. VIDEO is displayed on the front display panel.

### **ACCESS ON-SCREEN MENU**

Press MENU to bring up the Main Menu screen.

### ACCESS CUSTOM SET SCREEN

At the Main Menu screen, place the arrow next to "CUSTOM SET" by pressing CH▲▼ or SHUTTLE PLUS ▲▼, then press OK.

#### MAIN MENU

PROGRAM SET FUNCTION SET TUNER SET CUSTOM SET **VIDEO CALIBRATION** 

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

### Language Select

### ACCESS LANGUAGE SELECT SCREEN

The messages are preset to appear in English. If you want to see them in Spanish or French, place the arrow next to "LANGUAGE SELECT" by pressing CH▲▼ or SHUTTLE PLUS ▲▼, then press OK.

CUSTOM SET

OVERRIDE AUTO CLOCK SET LANGUAGE SELECT VCR PLUS+ SET-UP

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

### SELECT LANGUAGE

At the Language Select screen, place the arrow next to the desired language by pressing CH▲▼ or ŚHUTTLE PLUS

▲▼, then press MENU. The Custom Set screen reappears.

LANGUAGE SELECT

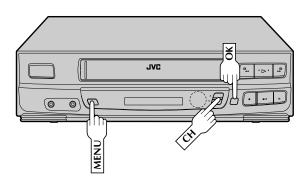
→ENGLISH ESPAÑOL Francais

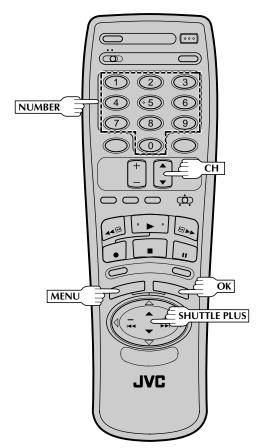
PRESS (▲,▼) TO SELECT PRESS (MENU) TO END











### **Clock Setting**

This step must be performed before going on to Auto, Semi-Auto or Manual clock setting procedures (each starts from step 2).

### ACCESS MODE SELECT SCREEN

Place the arrow at the Custom Set screen next to "OVERRIDE AUTO CLOCK SET" by pressing CH▲▼ or SHUTTLE PLUS ▲▼, then press OK.

**CUSTOM SET** 

→OVERRIDE AUTO CLOCK SET Language Select VCR PLUS+ SET-UP

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

### **Semi-Auto**

### SELECT MODE

At the Override Auto Clock Set screen, place the arrow next to "SEMI-AUTO CLOCK SET" by pressing CHAV or SHUTTLE PLUS AV, then press OK.

OVERRIDE AUTO CLOCK SET

AUTO CLOCK SET →SEMI-AUTO CLOCK SET MANUAL CLOCK SET

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

### **ACCESS SELECT SCREENS**

At the Semi-Auto Clock Set screen, place the arrow next to the desired mode by pressing CHAV or SHUTTLE PLUS AV, then press OK.

SEMI-AUTO CLOCK SET

→HOST CHANNEL SELECT TIME ZONE SELECT D.S.T. SELECT

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

To select the Host Channel

- step 4

To select the Time Zone

— step **5** 

To select the D.S.T. mode — step 6

### SELECT HOST CHANNEL

4

You can either select "AUTO", or enter a PBS channel number. For automatic channel selection, simply press MENU. To manually select the PBS channel, press the appropriate NUMBER key, CH▲▼ or SHUTTLE PLUS

HOST CHANNEL SELECT (CATV) CH AUTO

PRESS (▲,▼) TO SELECT PRESS (MENU) TO END

▲▼ to cycle through the channel numbers (hold button down to speed through numbers) and stop when the desired number appears. Press **MENU** and the Semi-Auto Clock Set screen reappears.

#### **NOTE:**

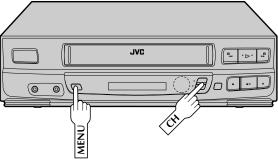
There are some PBS channels that do not transmit clock setting data.

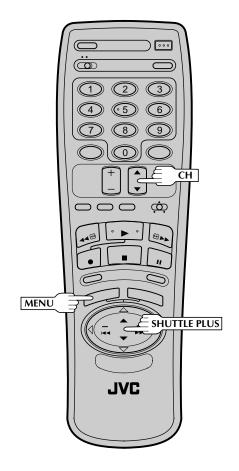
CONTINUED ON NEXT PAGE.











### SELECT TIME ZONE

You can either select "AUTO", or select the correct zone. If you selected "AUTO" in step 4 and if you live near the boundary of an adjacent time zone, or receive cable TV channels, a PBS channel from a different

→AUTO MOUNTAIN ATLANTIC PACIFIC EASTERN ALASKA CENTRAL HAWAII

TIME ZONE SELECT

PRESS (▲,▼) TO SELECT PRESS (MENU) TO END

time zone may become your host channel. Therefore, in this case make sure to manually select the correct time zone. Place the arrow next to your choice by pressing CH▲▼ or SHUTTLE PLUS ▲▼, then press MENU to return to the Semi-Auto Clock Set screen.

### 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.

D.S.T. SELECT

→AUTO
ON
OFF

PRESS (▲,▼) TO SELECT PRESS (MENU) TO END

c--Select "OFF" if Daylight Saving Time doesn't apply to you.

Place the arrow next to your choice by pressing CH▲▼ or SHUTTLE PLUS ▲▼, then press MENU and the Semi-Auto Clock Set screen reappears.

#### **IMPORTANT**

After performing the Semi-Auto clock set procedure, make sure that the VCR is off before the next hour so that the clock can be set. (The clock is automatically adjusted on the hour except at 11:00 PM, midnight, 1:00 AM and 2:00 AM.)

### \*\*AUTO DAYLIGHT SAVING TIME

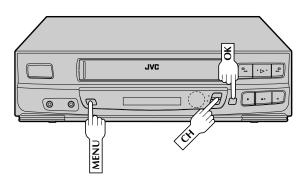
This function enables automatic adjustment of the VCR's clock at the start and end of Daylight Saving Time. With Auto DST activated, . . .

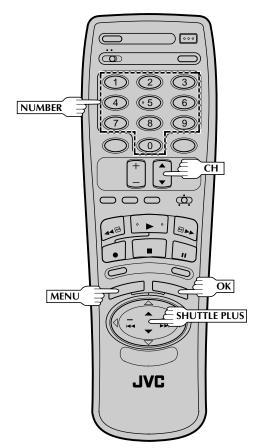
- ... on the first Sunday of April at 2:00 AM, the clock is adjusted to 3:00 AM.
- ... on the last Sunday of October at 2:00 AM, the clock is adjusted to 1:00 AM.











### Manual

### **SELECT MODE**

At the Override Auto Clock Set screen, place the arrow next to "MANUAL CLOCK SET" by pressing CH▲▼ or SHUTTLE PLUS ▲▼, then press OK.

### SET DATE, TIME AND D.S.T.

The Manual Clock Set screen is displayed and the first setting that can be set begins flashing.

Press the appropriate **NUMBER** keys to set the date and time (if only 1 digit, press "0" first). Press

CH▲▼ or SHUTTLE PLUS

MANUAL CLOCK SET 1/ 1/96 MON --:-- AM ON DATE TIME D.S.T. PRESS NUMBER KEY(0-9) OR (▲,▼), THEN (OK) PRESS (MENU) TO END

▲▼ to set AM/PM and D.S.T. (Daylight Saving Time) to "ON" (automatic adjustment based on VCR's clock) or "OFF" (if D.S.T. doesn't apply to you).

Press **OK** after AM/PM and D.S.T. settings. The next setting that can be set begins flashing. When you're finished with this set-up procedure, press MENU to start the clock.

#### **NOTE:**

**CH**▲▼ and **SHUTTLE PLUS** ▲▼ can be used to perform all operations. (In this case, press **OK** after each setting.)

### MAKE CORRECTIONS

To change any of the settings, press **OK** or **SHUTTLE** PLUS ► until the item you want to change blinks, then set as in step 3.

### **Auto**

Auto need only be selected if Semi-Auto or Manual had previously been selected.

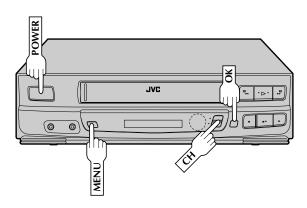
### SELECT MODE

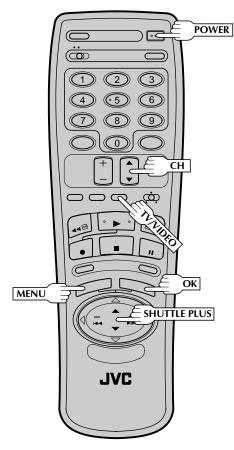
At the Override Auto Clock Set screen, place the arrow next to "AUTO CLOCK SET" by pressing CH▲▼ or SHUTTLE PLUS ▲▼, then press MENU as many times as necessary to return to the normal screen.





### Tuner





### **Set Receivable Channels**

1

### TURN ON THE VCR

Press **POWER**. If watching on channel 3 or 4, press **TV/VIDEO** to select the VIDEO mode. VIDEO is displayed on the front display panel.

### ACCESS MAIN MENU SCREEN

Press **MENU** as many times as necessary.

### ACCESS TUNER SET SCREEN

Place the arrow next to "TUNER SET" by pressing CH▲▼ or SHUTTLE PLUS ▲▼, then press OK.

### **ACCESS BAND SCREEN**

Place the arrow next to "BAND" by pressing CH▲▼ or SHUTTLE PLUS ▲▼, then press OK.

TUNER SET

→BAND
AFC
AUTO CHANNEL SET
MANUAL CHANNEL SET

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

BAND

### SET FREQUENCY BAND

If you receive your TV channels from an external antenna, select "TV". If you receive your TV channels from a cable TV system, select "CATV". Place the arrow next to your choice by pressing

CH▲▼ or SHUTTLE PLUS

TV
→ CATV

/

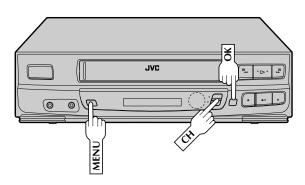
PRESS (♠,♥) TO SELECT
PRESS (MENU) TO END

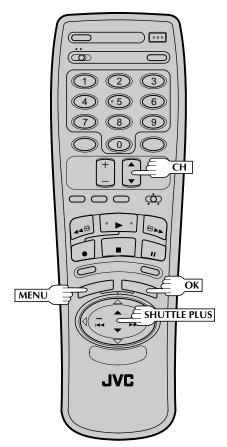
**▲▼**, then press **MENU** to return to the Tuner Set screen.





### 13





# PERFORM AUTO CHANNEL SET

Place the arrow next to "AUTO CHANNEL SET" by pressing CHA  $\blacktriangledown$  or SHUTTLE PLUS  $\blacktriangle \blacktriangledown$ , then press OK. Receivable channels in your area are automatically assigned to the CHA  $\blacktriangledown$  buttons, and non-receivable channels are skipped.

AUTO CHANNEL SET

CH (TV)
2 ADD
SCANNING ...

PRESS (MENU) TO END

### **NOTES:**

- At the end of Auto Channel Set, "SCAN COM-PLETED" appears on screen.
- If the scan was unsuccessful, "SCAN COMPLETED— NO SIGNAL" appears on screen. Check the band setting and connections and start again.

### RETURN TO NORMAL SCREEN

Press **MENU** as many times as necessary.





### **Add Or Delete A Channel**

### ACCESS TUNER SET SCREEN

Access by performing steps  ${\bf 2}$  and  ${\bf 3}$  of the Tuner procedure on page 12.

- To add a channel, go to step 2.
- To delete a channel, skip to step 4.

### **ACCESS AFC SCREEN**

Place the arrow next to "AFC" by pressing  $\mathbf{CH} \blacktriangle \blacktriangledown$  or  $\mathbf{SHUTTLE}$  PLUS  $\blacktriangle \blacktriangledown$ , then press  $\mathbf{OK}$ .

### **MAKE SELECTION**

Place the arrow next to "SPCL" by pressing CH▲▼ or SHUTTLE PLUS ▲▼, then press MENU to return to the Tuner Set screen.

AFC Norm →SPCL

PRESS (▲,▼) TO SELECT PRESS (MENU) TO END

### ACCESS MANUAL CHANNEL SET SCREEN

Place the arrow next to "MANUAL CHANNEL SET" by pressing CH▲▼ or SHUTTLE PLUS ▲▼, then press OK.

### STORE DESIRED CHANNEL

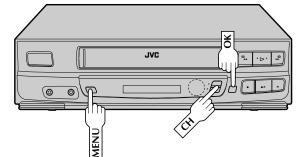
Input the channel number using the NUMBER keys or by pressing CH▲▼ or SHUTTLE PLUS ▲▼, then press ADD to add or CH.SKIP to delete. Repeat for each channel you want to store or skip.

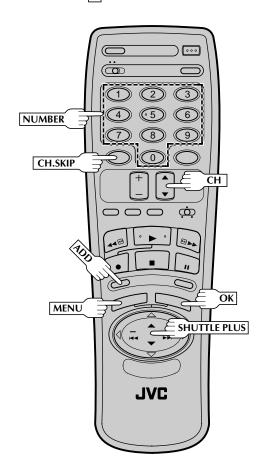
MANUAL CHANNEL SET (CATV) CH 125 SKIP

SELECT CH NO. AND PRESS (ADD/SKIP) PRESS (MENU) TO END

### RETURN TO NORMAL SCREEN

Press MENU as many times as necessary.





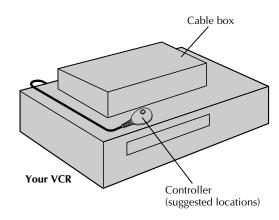


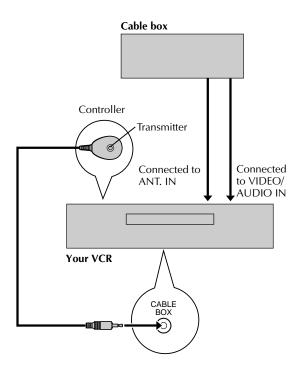


# Tuner And Cable Box Controller

### **Suggested Location**

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





This procedure is required if you receive your TV channels through a cable box (descrambler). The Cable Box Controller allows the VCR to automatically switch cable box channels, allowing you to timer-record programs from various cable stations. The Cable Box Controller is effective for recording shows that have been programmed using VCR Plus+ (\$\mathbb{C}\$\mathbb{T}\$ pg. 34) or On-Screen Timer Programming (\$\mathbb{C}\$\mathbb{T}\$ pg. 36).

### Situate And Connect Controller

### SITUATE CONTROLLER

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

### ATTACH CONTROLLER

Fasten securely using the supplied adhesive strips.

### 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

... connect them to the AUDIO and VIDEO IN connectors on your VCR.

### 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.

#### NOTE:

Refer to your cable box's instruction manual during connection.

### CONNECT CONTROLLER TO VCR

Connect to the CABLE BOX connector on your VCR.

#### **About Your Cable Box**

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

- The VCR's Wireless Remote Control Unit can control your Cable Box.
  - This eliminates the need for a separate Cable Box Remote Control Unit.
- The VCR's Cable Box 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 44.

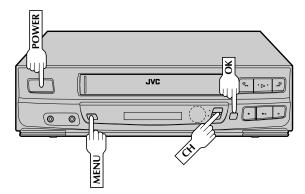


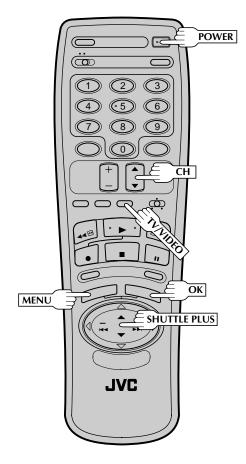




### 16

### **INITIAL SETTINGS (cont.)**





### Set Cable Box Output Channel

### TURN ON THE VCR

Press **POWER**. If watching channel 3 or 4, press **TV/VIDEO** to select the VIDEO mode. VIDEO is displayed on the front display panel.

### ACCESS MAIN MENU SCREEN

Press **MENU** as many times as necessary.

### ACCESS CUSTOM SET SCREEN

Press CH▲▼ or SHUTTLE PLUS ▲▼ to place the arrow next to "CUSTOM SET", then press OK.

### MAIN MENU

PROGRAM SET FUNCTION SET TUNER SET →CUSTOM SET VIDEO CALIBRATION

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

### ACCESS VCR PLUS+ SET-UP SCREEN

Press CH▲▼ or SHUTTLE
PLUS ▲▼ to place the
arrow next to "VCR PLUS+
SET-UP", then press OK.

### CUSTOM SET

OVERRIDE AUTO CLOCK SET Language Select →VCR Plus+ Set-UP

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

### ACCESS CABLE BOX OUTPUT SCREEN

Press CH▲▼ or SHUTTLE PLUS ▲▼ to place the arrow next to "CABLE BOX OUTPUT", then press OK.

### VCR PLUS+ SET-UP

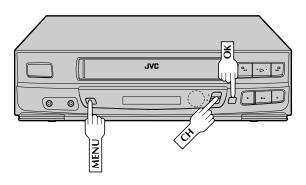
GUIDE CHANNEL SET GUIDE GHANNEL MAP →CABLE BOX OUTPUT CABLE BOX BRAND SET

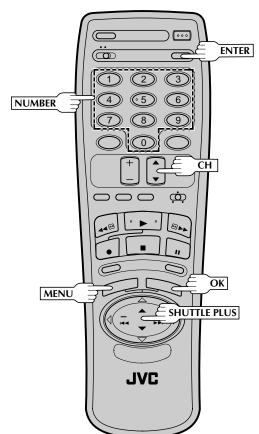
PRESS (▲,▼), THEN (OK) PRESS (MENU) TO END











### 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 ▲▼ to

**CABLE BOX OUTPUT** →OFF ON CH2 ON CH3 ON CH4 ON CH5 ON CH6 PRESS (▲,▼), TO SELECT PRESS (MENU) TO END

place the arrow next to the channel number representing the cable box's output (2-6).

If your cable box is connected to your VCR's AUDIO/ VIDEO IN connectors . . . . . . . . . . . . press CH▲▼ or SHUTTLE PLUS ▲▼ to place the

arrow next to "ON LINE"

### **RETURN TO VCR PLUS+ SET-UP SCREEN**

Press **MENU**.

### **Set Cable Box Brand**

### TURN ON CABLE BOX

Select a channel other than channel 9 on your Cable

### **ACCESS CABLE BOX BRAND SET SCREEN**

At the VCR Plus+ Set-Up screen, press CH▲▼ or **SHUTTLE PLUS** ▲▼ to place the arrow next to 'CABLE BOX BRAND SET", then press OK.

VCR PLUS+ SET-UP

GUIDE CHANNEL SET CABLE BOX OUTPUT CABLE BOX BRAND SET

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

### ENTER CABLE BOX BRAND

Press the appropriate **NUMBER** keys to enter the Cable Box Code from the CABLE BOX BRAND LIST on page 18, then press

• If the cable box's

ENTER.

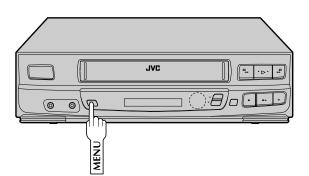
SELECT BRAND NO. AND PRESS (ENTER) PRESS (MENU) TO END

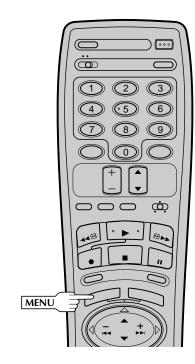
CABLE BOX BRAND SET

1

- channel changes to 9, setting is complete.
- If there are more than one code number listed for your brand of cable box, repeat step 3 until the cable box's channel changes to 9.
- If you go through all listed code numbers and the channel doesn't change, try all other numbers between 1 and 101.

CONTINUED ON NEXT PAGE.





### **NOTES:**

- Although the supplied Cable Box 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 101, 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 Cable Box Controller during timer recording.
- If your cable box is one that can't be operated with a remote control (has no remote sensor), you can't use the Cable Box Controller to change its channels. Make sure to leave the cable box turned on and tuned to the proper channel before the scheduled start of timer recording.
- If you are unable to set the Cable Box Controller, please contact JVC toll free at 1-800-252-5722.



### RETURN TO NORMAL SCREEN

Press MENU as many times as necessary.

You can now set up the VCR Plus+ feature ( F pg. 19).

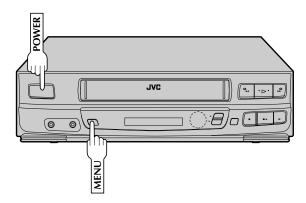
### **CABLE BOX BRAND LIST**

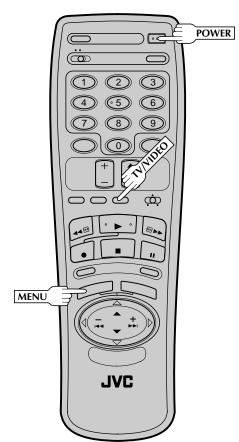
BRAND	CODE
ARCHER	52, 53, 54, 85, 86
CABLEVIEW	85 <i>,</i> 86
CITIZEN	85 <i>,</i> 86
CURTIS	13, 14, 15, 16
DIAMOND	52, 53, 54
EAGLE	30, 31, 32, 33, 34, 35, 36, 37
EASTERN	51
GC BRAND	85, 86
GEMINI	55, 56
GENERAL ELECTRIC	67
GENERAL INSTRUMENTS	1, 2, 3, 4, 5, 6, 101
HAMLIN	23, 24
JERROLD	1, 2, 3, 4, 5, 6, 101
MACOM, HITACHI	5 <i>7,</i> 58 <i>,</i> 59
MAGNAVOX	43, 44, 45, 46, 47, 48, 49
MOVIETIME	71, 72, 73
NSC	71, 72, 73
OAK	17, 18, 19, 20, 21, 22
PANASONIC	25, 26, 27
PHILIPS	38, 39, 40, 41, 42
PIONEER	7, 8
PULSER	85, 86
RCA	25, 26, 27
REGAL	78, 79, 80
REGENCY	51
samsung	74, 75, 76
SCIENTIFIC ATLANTA	13, 14, 15, 16
SL MARX	74, 75, 76
SPRUCER	25, 26, 27
STARGATE	74, 75, 76, 85, 86
SYLVANIA	70
TEKNIKA	68, 69
TELECAPTION	100
TELEVIEW	74, 75, 76
TEXSCAN	28, 29
TOCOM	62, 63, 64, 65, 66
UNIKA	52, 53, 54, 85, 86
UNIVERSAL	81, 82, 83, 84
VIDEOWAY	9, 10, 11, 12
VID TECH	89
VIDTER	89
VIEWSTAR	30, 31, 32, 33, 34, 35, 36, 37
ZENITH	9, 10, 11, 12
1	1





### VCR Plus+ Setup





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 (found in most TV listings) and the VCR's timer is automatically programmed.

Depending on the TV or cable stations that you receive and the channel numbers that they are received on in your area, you may have to make certain changes in your VCR's "Guide Channel Set" menu to get proper results. Please read the following information carefully to find out which tasks you need to perform.

Before VCR Plus+ setup you must have performed the following procedures:

Dual Quick setting (
 pg. 7)

Clock setting (F pg. 8)

Tuner setting (☐ pg. 12)

■ Tuner and cable box setting if you receive your TV channels through a cable box ( pg. 15)

#### Channel Number Matching

Most TV listings have a chart indicating the "Guide Channel" number assigned to each station for purposes of VCR Plus+ programming. Check the chart in your TV listings and see if the Guide Channel numbers listed for the stations you receive are the same as the channel number on which each is received by your VCR or cable box.

#### \*\*SPECIAL NOTES FOR CABLE SUBSCRIBERS\*\*

- In many instances, cable TV stations have VCR Plus+ Guide Channel numbers that **DO NOT** match the number of the channel on which you receive the station. Check your TV listings, or contact your cable supplier for details.
- Many normal broadcast TV stations can be viewed on cable. Check your TV listing, or contact your cable supplier for

If the numbers match, go directly to "VCR Plus+ Timer Programming" (F pg. 34).

If the numbers are different, and you want to be able to timer record programs from those stations, you have to inform the VCR of the mismatch. Go to step 1. If timer recording on those stations is not important to you, you can go directly to "VCR Plus+ Timer Programming" (F pg. 34).

### TURN ON THE VCR

Press **POWER**. If watching channel 3 or 4, press **TV**/ **VIDEO** to select the TV's VIDEO mode. VIDEO is displayed on the front display panel.

### ACCESS MAIN MENU SCREEN

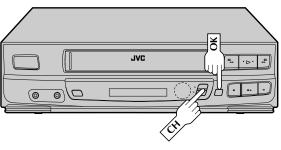
Press **MENU** as many times as necessary.

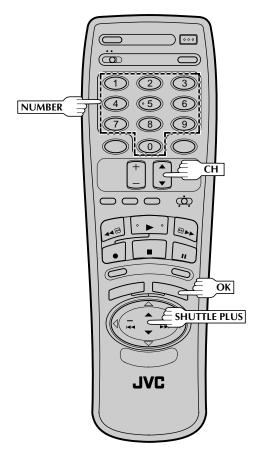
CONTINUED ON NEXT PAGE.











### ACCESS CUSTOM SET SCREEN

Press CH▲▼ or SHUTTLE PLUS ▲▼ to place the arrow next to "CUSTOM SET", then press OK.

#### MAIN MENU

PROGRAM SET FUNCTION SET TUNER SET →CUSTOM SET VIDEO CALIBRATION

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

### ACCESS VCR PLUS+ SET-UP SCREEN

Press CH▲▼ or SHUTTLE PLUS ▲▼ to place the arrow next to "VCR PLUS+ SET-UP", then press OK.

**CUSTOM SET** 

OVERRIDE
AUTO CLOCK SET
LANGUAGE SELECT
+VCR PLUS+ SET-UP

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

### ACCESS GUIDE CHANNEL SET SCREEN

Press CH▲▼ or SHUTTLE PLUS ▲▼ to place the arrow next to "GUIDE CHANNEL SET", then press OK.

VCR PLUS+ SET-UP

→ GUIDE CHANNEL SET GUIDE GHANNEL MAP CABLE BOX OUTPUT CABLE BOX BRAND SET

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

### INPUT GUIDE CHANNEL NUMBER

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

• If you receive your

GUIDE CHANNEL SET

GUIDE CH: VCR CH 1: 1

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

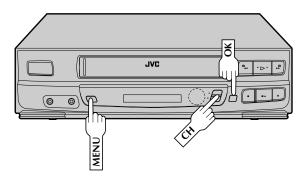
channels with a cable box and if you have properly set your Cable Box Controller, "CABLE CH" appears in place of "VCR CH". If not, refer to pages 15–16 and re-perform the procedure.

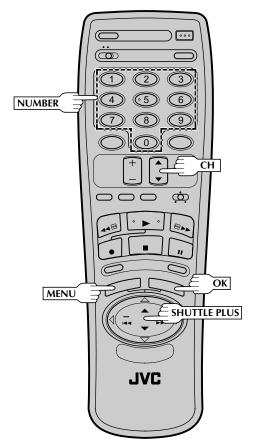






### 21





### 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.

• If there is more than one mismatch, repeat steps 6 and 7 for each instance.

### RETURN TO VCR PLUS+ SET-UP SCREEN

Press **MENU**.

### **CHECK INPUT DATA**

Press CH▲▼ or SHUTTLE PLUS ▲▼ to place the arrow next to "GUIDE CHANNEL MAP", then press OK.

• The Guide Channel and VCR or cable box channel numbers you input appear on the screen in ascending order. Check to ensure you've entered them correctly.

 If you entered more than 10 sets of numbers, press
 OK to see the next set of numbers. VCR PLUS+ SET-UP

GUIDE CHANNEL SET →GUIDE GHANNEL MAP CABLE BOX OUTPUT CABLE BOX BRAND SET

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

#### **GUIDE CHANNEL MAP**

GUIDE: VCR GUIDE: VCR 6: 47 10: 55 12: 41 15: 38 33: 28 67: 49

PRESS (OK) TO NEXT PRESS (MENU) TO END

### RETURN TO NORMAL SCREEN

Press **MENU** as many times as necessary.

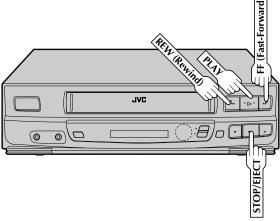
You can now use VCR Plus+ for quick and simple timer programming ( pg. 34).

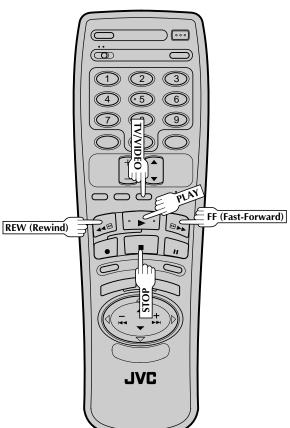






### Simple Playback





### 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.
- If watching channel 3 or 4, press TV/VIDEO to select the VIDEO mode. VIDEO is displayed on the front display panel.
- The counter is automatically reset to "0H 00M 00S".
- 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 screen ( pg. 32).

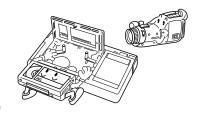
### STOP PLAYBACK

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

### 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\*\*)

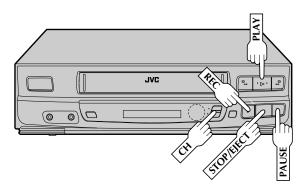


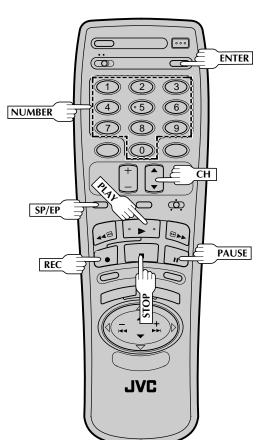
- \* Compact VHS camcorder recordings can be played on this video recorder. Simply place the recorded cassette into a VHS Cassette Adapter and it can be used just like any full-sized VHS cassette.
- \*\* This video recorder can record on regular VHS and Super VHS cassettes. However, it will record and play back regular VHS signals only. It is not possible to play back Super VHS recordings.





### Simple Recording





### **LOAD A CASSETTE**

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

### SELECT RECORDING CHANNEL

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

### **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.

Active Video Calibration takes place at the beginning of both the first SP and the first EP recording after inserting the cassette ( pg. 31).

### PAUSE/RESUME RECORDING

Press PAUSE. Press PLAY to resume recording.

### STOP RECORDING

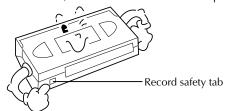
Press **STOP** or **STOP/EJECT**. Then press **STOP/EJECT** to remove the cassette.

### Accidental erasure prevention

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

To prove the provide the provide adjusting table.

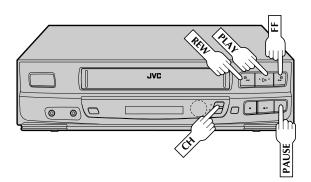
To record on it later, cover the hole with adhesive tape.

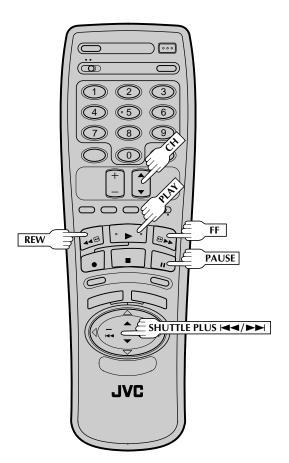






# Playback





### Still Picture

1

### PAUSE DURING PLAYBACK

Press **PAUSE**. If there is vertical jitter, press **CH**▲ or ▼ on the VCR's front panel or remote to stabilize the picture.

### FRAME-BY-FRAME PLAYBACK

Advance the tape one frame by pressing **PAUSE** again.

 To control the direction of Frame-by-Frame playback, press SHUTTLE PLUS I or ►►I during still picture mode

### RESUME NORMAL PLAYBACK

Press **PLAY** during still picture mode.

### Slow, Reverse, Reverse Slow Or Fast-Motion Picture

1

### **DURING PLAYBACK**

Press **SHUTTLE PLUS**  $\blacktriangleleft$  or  $\blacktriangleright \blacktriangleright$ 1.

- To increase the speed in the forward direction, press ►►I.
- To decrease the speed in the forward direction, press ◄
- To play in reverse slow motion, and in reverse play mode, continue to press I◄◄ after selecting all the forward slow motion modes.

Press  $\mathbf{FF}$  for forward fast motion, or  $\mathbf{REW}$  for reverse fast motion.

### RESUME NORMAL PLAYBACK

7

Press **PLAY**.

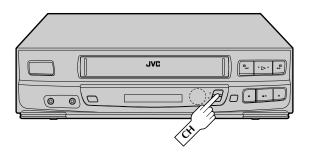
### **NOTES:**

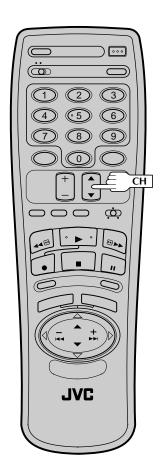
- Press and hold FF or REW for more than 2 seconds for short fast-motion searches. When the button is released, normal playback resumes.
- If noise bars appear during playback or slow motion, correct using manual tracking. (□ pg. 25).











### **Manual Tracking**

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

### **ENGAGE MANUAL** TRACKING MODE

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

### **ADJUST MANUAL** TRACKING

Press  $\mathbf{CH} \blacktriangle \blacktriangledown$  on the VCR's front panel or remote. Press lightly 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▲▼ buttons on the VCR's front panel simultaneously.

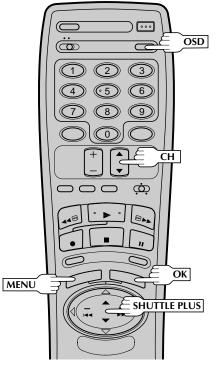
• When automatic tracking is re-engaged, video calibration is automatically activated.

### **NOTE:**

During slow-motion playback, simply press CH▲ or ▼ on the VCR's front panel or remote to adjust tracking.







#### To recall an indication

- 1 Press **OSD**.
  - All indications corresponding to the current status are displayed for 5 seconds, leaving the counter information, and RECORD/PAUSE if in the Record Pause mode, on the screen. (No indication during still and search.)
- 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.

### ACCESS MAIN MENU SCREEN

Press MENU as many times as necessary.

# ACCESS FUNCTION SET SCREEN

Place the arrow next to "FUNCTION SET" by pressing CH▲▼ or SHUTTLE PLUS ▲▼, then press OK.

### ACCESS SUPERIMPOSE SCREEN

Place the arrow next to "SUPERIMPOSE" by pressing CH▲▼ or SHUTTLE PLUS ▲▼, then press OK.

FUNCTION AUTO TIMER →SUPERIMPOSE

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

### **SELECT MODE**

Place the arrow next to "ON" or "OFF" by pressing CH▲▼ or SHUTTLE PLUS ▲▼.

SUPERIMPOSE →ON OFF

PRESS (▲,▼) TO SELECT PRESS (MENU) TO END

### RETURN TO NORMAL SCREEN

Press **MENU** as many times as necessary.

### **NOTE:**

RECORD PAUSE OO SP

+-**■**---E

-1:23:45

INDEX-1 MEMORY OFF

If you engage the Record Pause mode, RECORD/PAUSE is displayed whether "SUPERIMPOSE" is set to "ON" or "OFF".

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

Tuned-in channel or AUX(iliary) mode. When the channel is changed, the new channel is displayed on the screen for 5 seconds.

Clock time -

"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. 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 indicator
INDEX indication
Counter reading

Counter memory on/off

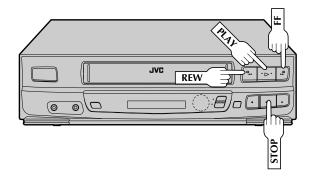




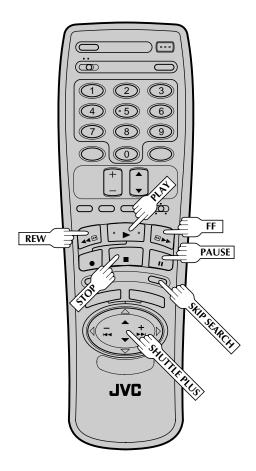
COUNT

CH 125 Thu 12:00 am









### **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.

To return to normal playback during a Skip Search, press PLAY.

### **Repeat Playback**

### START REPEAT

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

• The entire tape is played back 20 times.

### Stop repeat

To stop, press STOP at any time.

Pressing PLAY, REW, FF, PAUSE or SHUTTLE PLUS d or ► also stops Repeat Playback.

### Index Search

This function seeks out index codes that are placed on the tape at recording start.

### START SEARCH

While the tape is stopped, press SHUTTLE PLUS ◄◄

### **ACCESS DISTANT CODE**

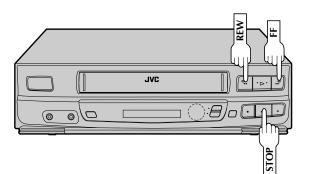
To access a recording 2-9 index codes away, press SHUTTLE PLUS I or ►► repeatedly until the correct number is displayed on screen (only if SUPER-IMPOSE is set to ON ( pg. 26). Playback begins automatically when the desired recording is located.

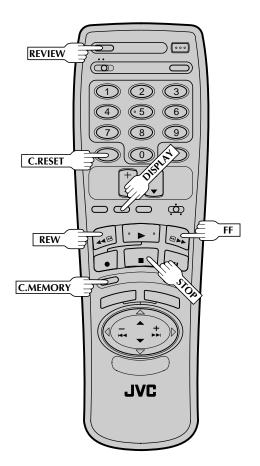
• To find the very beginning of the desired program, press REW or FF and search visually for the start point.











### 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.

1

### ACTIVATE INSTANT REVIEW

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

- The power comes on and the VCR searches for 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.
- To find the very beginning of the desired program, press REW or FF and search visually for the program's start point.

### **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.)

### **Counter Memory**

When activated, this feature returns the tape to counter position "zero".

1

### ACTIVATE COUNTER MEMORY

Press **C.RESET** during playback at a point you want to have quick access to later. The counter reads "0H 00M 00S".

Then press **C.MEMORY**. The Counter Memory indicator in the front display panel lights.

### RETURN TO COUNTER POSITION ZERO

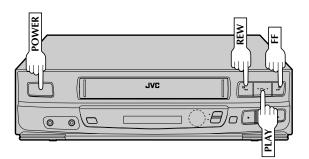
2

Press **STOP** (during playback), then press **REW**. The tape rewinds and stops at approximately "0H 00M 00S" automatically.

• To cancel Counter Memory, press **C.MEMORY**.





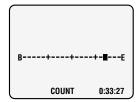


2

JVC

### **Tape Position Indicator**

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



### **NOTE:**

POWER

TIMER

FF

"SUPERIMPOSE" must be set to "ON", or the indicator will not appear (157 pg. 26).

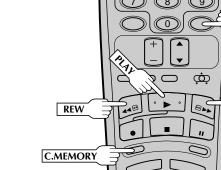
### **Next-Function Memory**

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 **TIMÉR** within 2 seconds.

### NOTE:

If you want the "next function" to automatically start when the counter reads "0H 00M 00S" (instead of at the beginning of the tape), press **C. MEMORY** so that the counter memory indicator appears on the front display panel before pressing **REW** or **FF**.

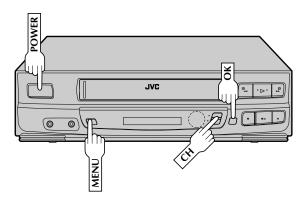


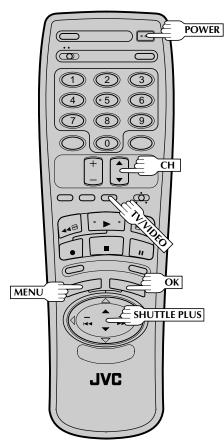
Ö





# Active Video Calibration





Your VCR is equipped with the Active Video Calibration feature, which checks the condition of the tape in use during recording and playback, and compensates to provide the highest-possible recording and playback pictures. \*The default setting for both recording and playback is "ON".

### **Preparation**

1

### TURN ON THE VCR

Press **POWER**. If watching channel 3 or 4, press **TV/VIDEO** to select the VIDEO mode. VIDEO is displayed on the front display panel.

### ACCESS MAIN MENU SCREEN

Press **MENU** as many times as necessary.

2

### ACCESS VIDEO CALIBRATION SCREEN

Press CH▲▼ or SHUTTLE PLUS ▲▼ to place the arrow next to "VIDEO CALIBRATION", then press OK.

MAIN MENU

PROGRAM SET
FUNCTION SET
TUNER SET
CUSTOM SET
→VIDEO CALIBRATION

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

ACTIVE VIDEO CALIBRATION

SELECT MODE

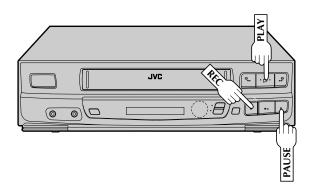
Place the arrow next to "ON" by pressing CH▲▼ or SHUTTLE PLUS ▲▼, then press OK to move the arrow to the Playback section. Set Playback to "ON", then press MENU as many times as necessary to return to the normal

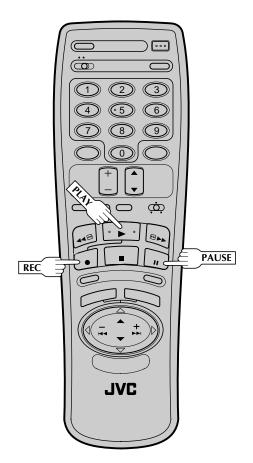
screen. (Pressing  $\mathbf{OK}$  returns the arrow to the Recording section.)











### Recording

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

START RECORDING 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.

**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 CALIBRATION**





#### CALIBRATION COMPLETE



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.
- During Active Video Calibration, all other functions are disabled.
- While Active Video Calibration is operative, the PAUSE button will not function.
- SUPERIMPOSE must be set to "ON" or the Active Video Calibration screen will not appear ( pg. 26).

#### ATTENTION:

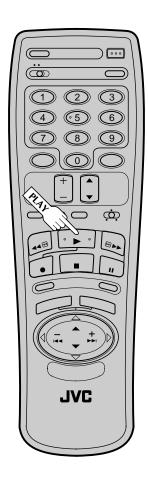
- As calibration takes place before recording actually starts, there is a delay of about 7 seconds after **REC** and **PLAY** on the remote, or  $\mbox{\bf REC}$  on the VCR's front panel, are pressed. To make sure you record the desired scene or program completely, first perform the following steps:
- 1) Press and hold PAUSE, and press REC to engage the RECORD PAUSE mode.
  - The VCR then automatically checks the condition of the tape and, after about 7 seconds, re-enters RECORD PAUSE.
- 2) Press **PLAY** to start recording.
   If you want to bypass Active Video Calibration and start recording right away, set "RECORDING" to "OFF" in step 4 of the Preparation procedure (F pg. 30).







### 



### Playback

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

Before beginning, perform steps 1 and 2 on page 22.

START PLAYBACK

Press **PLAY**.

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



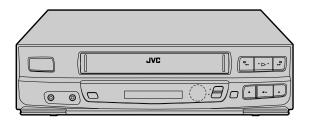
### **NOTES:**

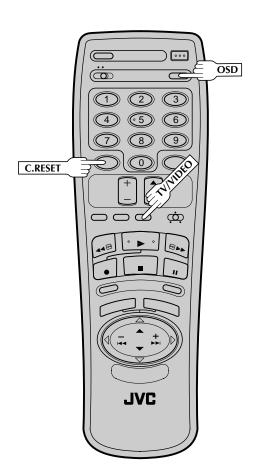
- When using rental tapes, or tapes recorded on other VCRs, set "PLAYBACK" in step 4 of the Preparation procedure to either "ON" or "OFF" as desired (CF pg. 30).
- The Video Calibration screen only appears at the beginning of automatic tracking. Even though the screen doesn't appear after that, the Active Video calibration function is operative.
- "SUPERIMPOSE" must be set to "ON" or the Video Calibration screen will not appear ( pg. 26).





### Recording





# Record One Program While Watching Another

**ENGAGE TV MODE** 

During recording...

- If using the RF connection (F) pg. 6), press TV/VIDEO.
   The VCR's VIDEO indicator goes out and the TV broadcast being recorded disappears.
- broadcast being recorded disappears.

   If using the AV connection (☞ pg. 6), change the TV's input mode from AV to TV.

### SELECT CHANNEL FOR VIEWING

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

### Display Elapsed Recording Time

**RESET COUNTER TO ZERO** 

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

### DISPLAY ELAPSED TIME ON SCREEN

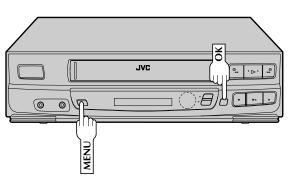
During recording, press **OSD** at any time to see the elapsed time. All indications corresponding to the current status of the VCR are displayed for 5 seconds. The counter display remains on the screen indicating the elapsed time. Press **OSD** again to remove the display.

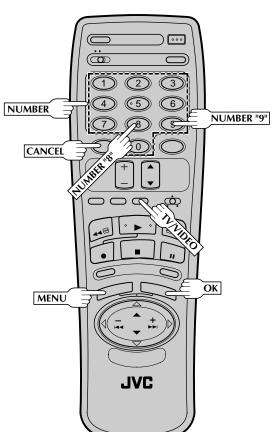
• Make sure "SUPERIMPOSE" is set to "ON" (☐ pg. 26).





### VCR Plus+ Timer Programming





Before VCR Plus+ Timer programming, see "VCR Plus+ Setup" on page 19.

### **Enter Program Information**

### LOAD A CASSETTE

Make sure the record safety tab is present.

- The VCR's power comes on automatically.
- If you're watching on channel 3 or 4, press TV/VIDEO to select the VIDEO mode. VIDEO is displayed on the front display panel.

### ACCESS VCR PLUS+ SCREEN

Press **MENU**.

 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 when you press MENU. Refer to page 7

PRESS NUMBER KEY(0-9) PRESS (MENU) TO MAIN MENU

VCR PLUS+

for the Dual Quick Set procedure or page 8 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, then press **OK**. The Program screen appears.

PROGRAM 1 (VCR PLUS+ 12345678) DATE 7/10 FRI START 8:00 PM STOP 9:00 PM CHANNEL 8 SP

PRESS (8=DAILY, 9=WEEKLY SP/EP=REC SPEED) PRESS (MENU) TO END

• To make corrections,

press CANCEL and input the correct PlusCode number.

If the PlusCode number you input 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 4 seconds and the VCR Plus+

### CHECK INPUT DATA

screen reappears (step 2).

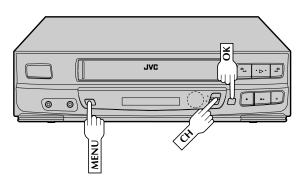
The PlusCode number you entered appears in the Program screen. Check to make sure it's accurate.

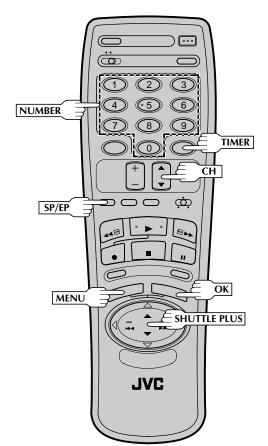
- To timer-record daily or weekly serials, press DAILY (NUMBER "8") or WEEKLY (NUMBER "9"). "DAILY" or "WEEKLY" appears on the Program screen.
- If you made a mistake, press CANCEL and, after pressing MENU as many times as necessary to access the VCR Plus+ screen, input the correct PlusCode number.











**SET TAPE SPEED** 

Press SP/EP.

### CHECK/CORRECT INPUT DATA

If the data is correct as it is, go to step 7. If not, press OK or SHUTTLE PLUS I → with until the item you want to change begins to blink. Then press the appropriate NUMBER keys, CH → or SHUTTLE PLUS → to obtain the desired setting.

### RETURN TO NORMAL SCREEN

Press MENU as many times as necessary.

• Press just once to access the Auto Timer screen (pg. 39).

### **ENGAGE TIMER MODE**

Press TIMER. The VCR turns off automatically.

### **NOTES:**

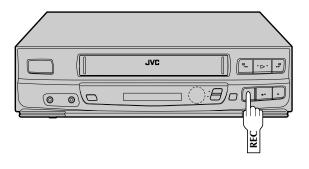
- To disengage the timer before recording starts, press **TIMER** again. Pressing once more re-engages it.
- In case of a power failure after programming, the VCR's memory backup keeps your selections for 10 minutes.
- When timer-recording cable channels received through a Cable Box, be sure to keep the Cable Box set to ON.





### TIMER RECORDING (cont.)

### Instant Timer Recording (ITR)





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

1

### START RECORDING

Press REC

### **ENGAGE ITR MODE**

Press **REC** again. ITR 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 time, the previous display reappears.
- To check remaining recording time, press REC once during recording and the remaining time is displayed for about 5 seconds. Be careful not to press again during this 5 seconds, or you'll add 30 more minutes to the recording.



\* Refer to the illustration on page 37.

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 (\$\square\$ pg. 7 or 8).

1

### load a cassette

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

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

### ACCESS PROGRAM SET SCREEN

Press **MENU** as many times as necessary to bring up the Main Menu screen, then press **OK**.

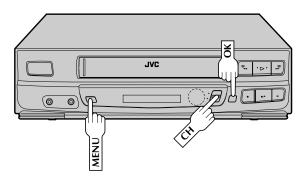
PROGRAM 1		
DATE START STOP CHANNEL	/ :AM :AM SP	
PRESS NUMBER KEY(0-9) OR (▲,▼), THEN (OK) PRESS (MENU) TO END		

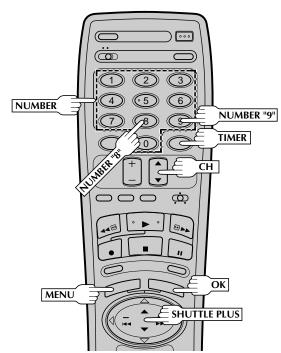












#### **EXAMPLE**

If you program the VCR to timer record a show on September 6 on channel 40 from 12:00 noon to 1:00 PM in SP mode, the screen will look like this:

#### PROGRAM 1

DATE START STOP CHANNEL 9/6 SUN 12:00 PM 1:00 PM 40 SP

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

#### **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 10 minutes.
- If you select "PROGRAM SET" without having set the date and time, an error message appears. Follow its instructions.
- If you enter a start time that has already passed, "ERROR" appears on the screen and flashes.
- Programs that start after midnight must have the next day's

# SELECT PROGRAM NUMBER

Press the appropriate **NUMBER** keys or **CH**▲▼ or SHUTTLE PLUS ▲▼ to select a vacant program number, then press **OK**. The first time you do this, all numbers will be vacant, so just press OK when the screen appears.

## SET PROGRAM INFORMATION

Press the appropriate NUMBER keys to set the date, start/stop time and channel number. Press CH▲▼ or **SHUTTLE PLUS** ▲▼ to set AM/PM and tape speed. Then press **OK** after AM/PM, channel number and tape speed settings. The next setting that can be set begins flashing.

- Any information comprised of 1 digit (except the channel number) should have a "0" entered before it.
- It is possible to set all information using the CH▲▼ or SHUTTLE PLUS ▲▼ buttons. (In this case, press OK after each setting.)

#### **NOTE:**

If you are using a cable box, enter the cable box channel, not the channel to be recorded. The channel to be recorded must be selected on the cable box. (The cable box channel is the VCR's channel that displays the chennels received by the cable box.)

\*\* You can record selected programs at the same time every weekday, or once a week. Before entering the month, press **NUMBER** key "8" (DAILY) or "9" (WEEKLY). Either "DAILY" or "WEEKLY" appears. Press again and "DAILY" or "WEEKLY" disappears.

#### MAKE CORRECTIONS

To change any of the settings, press **OK** or **SHUTTLE** PLUS | I will the item you want to change begins blinking. Then set as in step 4.

# RETURN TO NORMAL SCREEN

Press MENU as many times as necessary.

 Press just once to access the Auto Timer screen (□ pg. 39).

## **ENGAGE TIMER MODE**

Press TIMER. The VCR turns off automatically.

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



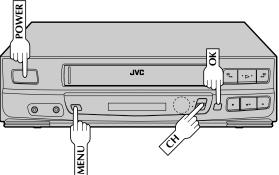


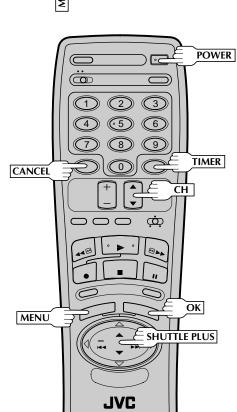


# 38

## TIMER RECORDING (cont.)

# **Check And Cancel Programs**





# DISENGAGE TIMER

Press TIMER, then press POWER.

# ACCESS PROGRAM SET SCREEN

Press **MENU**, then press **OK**.

# CHECK PROGRAM INFOR-MATION

Press **CH**▲▼ or **SHUTTLE PLUS** ▲▼ to check the programs in succession.

## To Cancel A Program . . .

CANCEL A PROGRAM Press CANCEL.

Described and 2 and 4 are married

• Repeat steps 3 and 4 as many times as necessary.

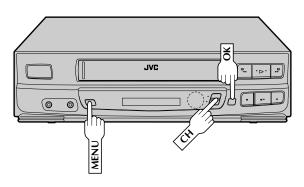
RETURN TO NORMAL SCREEN

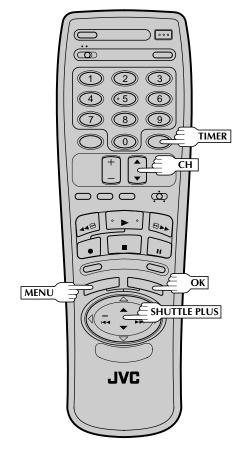
Press **MENU** as many times as necessary. If there are still programs remaining, go to step **6**.

**RE-ENGAGE TIMER** 

Press TIMER again.







#### **Auto Timer**

When activated, this function automatically engages the timer when the VCR's power is turned off, and disengages it when the power is turned on.

# **ACCESS MAIN MENU** SCREEN

Press MENU as many times as necessary.

# ACCESS FUNCTION SET **SCREEN**

Place the arrow next to "FUNCTION SET" by pressing CH▲▼ or SHUTTLE PLUS ▲▼, then press OK.

# **ACCESS AUTO TIMER SCREEN**

Place the arrow next to "AUTO TIMER" by pressing CH▲▼ or SHUTTLE PLUS ▲▼, then press OK. Now skip to step 2 of the procedure below.

Or, during on-screen timer programming ...

# **ACCESS AUTO TIMER SCREEN**

In step 7 in the VCR Plus+ Timer Programming procedure (F pg. 35) or in step 6 in the On-Screen Timer Programming procedure (F) pg. 37), press MENU.

#### SELECT MODE

Place the arrow next to your choice ("ON" or "OFF") by pressing **CH▲▼** or **SHUTTLE PLUS** ▲▼.

**AUTO TIMER** 

→ON OFF

PRESS (▲,▼) TO SELECT PRESS (MENU) TO END

# RETURN TO NORMAL SCREEN

Press MENU as many times as necessary.

#### **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.

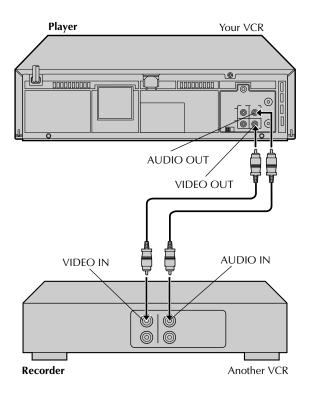






40 EDITING

# Edit To Or From Another VCR



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

MAKE CONNECTIONS

Connect an AV cable (not supplied) between the

Connect an AV cable (not supplied) between the player's VIDEO OUT and AUDIO OUT connectors and the recorder's VIDEO IN and AUDIO IN connectors.

 When connecting to a Hi-Fi VCR, connect your VCR's AUDIO IN/OUT connector to the AUDIO L IN/OUT connector on the Hi-FiVCR.

#### LOAD CASSETTES

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

# SET RECORDER'S INPUT MODE

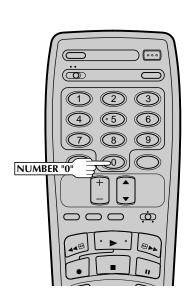
Set to AUX. With this VCR, press **NUMBER** key "0" (AU appears on the front display panel in place of a channel number).

#### START PLAYER

Set to its play mode.

#### START RECORDER

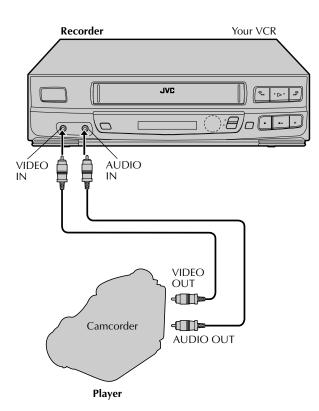
Set to its record mode.







# Edit From A Camcorder



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

#### MAKE CONN onnect an AV cable (not su

Connect an AV cable (not supplied) between the camcorder's VIDEO OUT and AUDIO OUT connectors and your VCR's VIDEO IN and AUDIO IN connectors.

 When using a Hi-Fi camcorder, connect its AUDIO OUT L connector to the AUDIO IN connector on your VCR.

#### LOAD A CASSETTE

Insert the cassette to be recorded on into the recorder.

# SET RECORDER'S INPUT MODE

Press **NUMBER** key "0" to set to AUX.

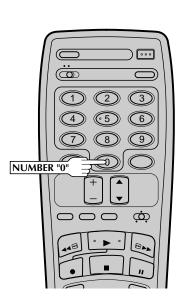
#### START PLAYER

Set the camcorder to its play mode.

#### START RECORDER

Set your VCR to its record mode.

• Refer to camcorder's instruction manual.



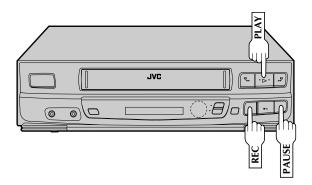


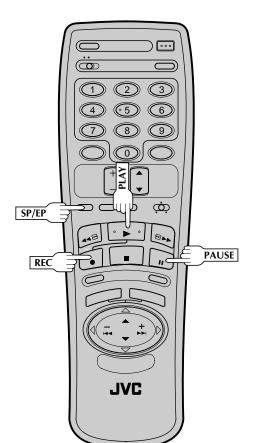




42 EDITING (cont.)

# Assemble Editing





Assemble Editing adds one recorded scene to another in succession.

To use your VCR as the recorder ...

Inserec

#### LOAD CASSETTES

Insert the original cassette in the player, and the recording cassette in the recorder.

#### SET TAPE SPEED

Set to "SP" or "EP" by pressing the **SP/EP** button on the remote control.

# ENGAGE RECORD-STANDBY MODE

Press and hold PAUSE, and press REC.

# FIND EDIT START POINT

Play back the original tape until you reach the scene to be edited.

### START EDITING

When you reach the scene on the original tape to be edited, press **PLAY** to initiate the recorder's record mode.

# STOP EDITING

Press **PAUSE** to pause the tape in the recorder.

# CONTINUE EDITING

Repeat steps  ${\bf 4}$  through  ${\bf 6}$  to add additional scenes.

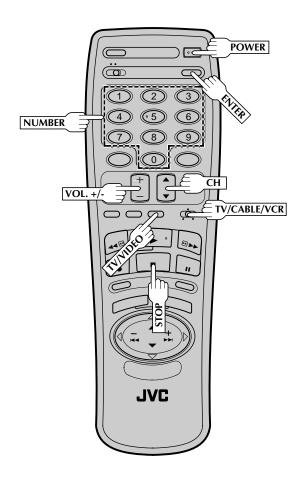
#### **NOTE:**

Assemble Editing is also possible using your VCR as the playback deck.









# 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.

7

#### TURN ON THE TV

Turn the power on using the TV's remote control.

# SET REMOTE CONTROL MODE

Set the **TV/CABLE/VCR** switch on the VCR's remote control to TV.

### SET TV BRAND CODE

Refer to the chart below. While holding down **POWER**, enter your TV's brand code using the **NUMBER** keys, then press **STOP**.

- 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.
- PÁNASÓNIC has two codes. If the TV does not function with one code, try entering the other.

#### OPERATE TV

First, press **POWER** on the remote to see if the TV's power goes off as it should. If it does, try other operations.

- The POWER, TV/VIDEO, CH▲▼, VOL +/- and NUMBER keys on the remote can all be used to operate the TV. \*For some brands of TV, you must press ENTER after having pressed the NUMBER keys.
- To return the remote to VCR control, set the TV/ CABLE/VCR switch to VCR.

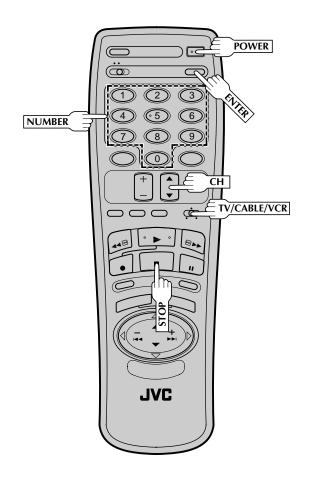
#### **NOTE:**

Depending on the kind 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







CABLE BOX BRAND NAME	BRAND CODE
CURTIS	09, 10
GEMINI	08
GENERAL INSTRUMENTS	01, 02, 03, 04, 05, 06, 07, 08
HAMLIN	15, 16, 17, 18
JERROLD	01, 02, 03, 04, 05, 06, 07, 08
OAK	19, 20, 21
PANASONIC	24, 25, 26
PIONEER	13, 14
RCA	24, 25, 26
REGAL	15, 16, 17, 18
samsung	08, 13
SCIENTIFIC ATLANTA	09, 10
SIGMA	19, 20, 21
SL MARX	08, 13
SPRUCER	24, 25, 26
TELEVIEW	08, 13
TOCOM	22, 23
VIDEOWAY	11, 12
ZENITH	11, 12

#### 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.

# TURN ON THE CABLE BOX

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

# SET REMOTE CONTROL MODE

Set the TV/CABLE/VCR switch on the VCR's remote control to CABLE.

#### ENTER CABLE BOX BRAND

While holding down POWER, use the NUMBER keys to enter the cable box brand number from the chart below and then press STOP.

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

#### OPERATE CABLE BOX

First, press POWER to see if the cable box's power goes off as it should. If it does, try other functions (CH▲▼ and the **NUMBER** keys can be used to operate the cable box).

- For some brands of cable box, you must press ENTER after having pressed the NUMBER keys.
- To return the remote to VCR control, set the TV/ CABLE/VCR switch to VCR.

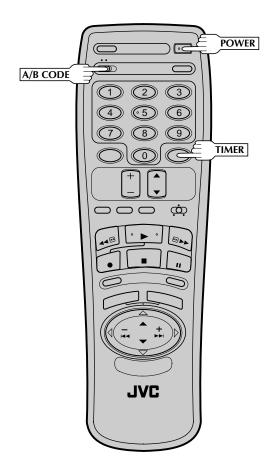
#### **NOTES:**

- You must set the cable box brand for your remote control and the cable box brand for your Cable Box Controller ( pg. 17) individually. Cable box brands available for the remote control differ from those available for the Cable Box Controller.
- It is possible that the remote control will not operate your cable box even if the cable box's channels automatically change during timer recording using the Cable Box Controller.









#### **Control Two JVC VCRs**

The supplied remote control is capable of controlling two JVC VCRs independently using the **A/B CODE** switch. You can set this VCR so it responds to remote commands only when the switch is set to **B**, and another VCR so it responds to commands when the switch is set to **A**. The switch is preset to **A** because this VCR normally responds to A-code signals. You can easily modify this VCR to accept B-code commands.

# UNPLUG VCR'S POWER CORD

Unplug from the AC outlet.

# SET A/B CODE SWITCH

Set the **A/B CODE** switch on the remote control to B.

#### 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.

#### **Child Lock**

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

TURN VCR POWER ON Press POWER.

# **ENGAGE CHILD LOCK**

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

 To cancel Child Lock, press and hold POWER on the remote to turn the VCR 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 can be performed while Child Lock is engaged. The feature remains in effect after the recording is finished.







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.
The clock works, but the VCR's power won't come on.	• The TIMER mode is engaged with Auto Timer set to "OFF" (  pg. 39).	Press <b>TIMER</b> to disengage.
3. The remote control won't function.	<ul> <li>The batteries are discharged.</li> <li>The A/B CODE switch is in the wrong position.</li> <li>The TV/CABLE/VCR switch is in the wrong position.</li> </ul>	Replace the dead batteries with new ones. Re-perform the A/B Code setting (CF pg. 45). Set the switch to the position corresponding with the unit you want to operate.
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 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. Then insert the cassette
The tape stops during rewind or fast forward.	<ul> <li>The Counter Memory indicator ("M") is lit on the front display panel.</li> </ul>	Press <b>C.MEMORY</b> to disengage the Counter Memory mode and extinguish the indicator.
PLAYBACK		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
The tape is running but the picture won't appear.	<ul> <li>If you're using the RF OUT connection (() pg. 6), the channel selector on the TV is set incorrectly.</li> <li>If you're using the AV connection (() pg. 6), the TV receiver is set to the wrong mode.</li> </ul>	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.	
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 (127 pg. 54).







				ш

RECORDING			
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION	
1. Recording won't start.	<ul> <li>There's no cassette loaded.</li> <li>The loaded cassette has had its record safety tab removed.</li> </ul>	Insert a cassette. Remove the cassette and cover the hole with adhesive tape, or load a cassette on which the record safety tab is intact.	
TV broadcasts 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.	<ul> <li>◆The VCRs or the camcorder and the VCR have been incorrectly connected.</li> <li>Refer to the directions and the illustration under "Edit to And From Another VCR" (☞ pg. 40) or "Edit From A Camcorder" (☞ pg. 41) and properly connect the units.</li> <li>◆ The power to one or more of the</li> </ul>		
	units has not been turned on.		
TIMER RECORDING			
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION	
1. Timer recording won't work.	<ul> <li>The clock and/or the timer have been set incorrectly.</li> <li>The timer is not engaged.</li> <li>The VCR has not been set up properly.</li> </ul>	Check or re-perform the clock/timer settings to ensure correctness.  Press <b>TIMER</b> and check to make sure that TIMER 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 (Fig. 19).	
On-screen 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. TIMER and oo 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.	
4. The cassette is automatically ejected, and TIMER and oo on the front display panel won't stop blinking.	<ul> <li>The loaded cassette has had its record safety tab removed.</li> </ul>	Remove the cassette and cover its hole with adhesive tape, or replace it with a cassette on which the safety tab is intact.	
5. TIMER blinks for 10 seconds and the timer mode is disengaged.	<ul> <li>TIMER has been pressed when there are no programs in memory, or the timer record program information has not been programmed correctly.</li> </ul>	Check the programmed data and reprogram as necessary, then press <b>TIMER</b> again.	
6. The cassette is automatically ejected, the power shuts off and TIMER and ♂ won't stop blinking.	<ul> <li>The end of tape was reached during timer recording.</li> </ul>	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.	<ul> <li>The Cable Box Controller is not properly connected to the VCR.</li> <li>The output channel selected in the Cable Box Output screen is incorrect.</li> <li>The cable box's power is off.</li> </ul>	Connect the Cable Box Controller correctly ( pp. 15).  After confirming your cable box's output channel number, re-access the Cable Box Output screen and select the correct number ( pp. 17).  Make sure the power is on before timer recording starts.	

CONTINUED ON NEXT PAGE.







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# TROUBLESHOOTING (cont.)

8. Timer recording begins as sched- uled, but the channel is always incorrect.	<ul> <li>Even though you don't use an external Cable Box, "CABLE BOX OUTPUT" is set to "ON".</li> </ul>	Set "CABLE BOX OUTPUT" to "OFF" (☐ pg. 16).
9. We moved, and now VCR Plus+ doesn't work properly.	● The receivable stations in the new area are received on different channels than those in the previous area.  Re-perform the VCR Plus+ setup procedure (□ pg. 19).	
10."PROGRAM FULL" is displayed on the VCR Plus+ screen.	<ul> <li>All 8 programs of the VCR's timer memory are used.</li> </ul>	Wait until a space in memory clears, or cancel unnecessary program information ( pg. 38).
OTHER PROBLEMS		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
When scanning channels, some of them are skipped over.	<ul> <li>Those channels have been preset to be skipped.</li> </ul>	If you need the skipped channels, restore them (127 pg. 14).
2. The channel can't be changed.	• Recording is in progress.	Press <b>PAUSE</b> to pause the recording, change channels, then press <b>PLAY</b> to resume recording.
3. The remote control won't operate		
my TV.	• The <b>TV/CABLE/VCR</b> switch is set to a position other than TV.	Set the switch to TV.
		Set the switch to TV.  Set the switch to CABLE.





This recorder contains microcomputers. External electronic noise or interference could cause malfunctioning. In such cases, switch the power off and unplug the power cord. Then plug it in again and switch power on. Take out the cassette. After checking the cassette, operate the unit as usual.

#### **QUESTIONS AND ANSWERS**

#### DIAVDACU

#### **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. Other than preventing further recording, what effect does removing the safety tab have?

**A.** It disables marking of index codes.

indicators) may occur.

the program I want to see. Why not?

A. There may be index codes too close together.

Q. Sometimes, during Index Search, the VCR can't find

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 TIMER 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.** You won't see the picture as it is replaced by the onscreen menu, but the audio from the program or tape you're viewing is present.







# **SPECIFICATIONS**

#### **GENERAL**

: AC 120 V  $\sim$  , 60 Hz Power requirement

Power consumption : 19 W

Temperature

Operating : 5°C to 40°C (41°F to 104°F) Storage : -20°C to 60°C (-4°F to140°F)

Operating position : Horizontal only

Dimensions (W x H x D) : 360 x 94 x 276 mm

(14-3/16" x 3-3/4" x 10-7/8")

Weight : 3.4 kg (7.5 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/

: DA-4 (Double Azimuth) head Playback system

helical scan system

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

: 70 Hz to 10,000 Hz Frequency range 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

RF output : Channel 3 or 4 (switchable;

preset to Channel 3 when shipped) 75 ohms,

: Frequency-synthesized tuner

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, Cable Box Controller

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





# **List Of Terms**

This guide serves as a quick way to locate frequently used terms and on-screen display names. The first page on which the term appears is listed. Most terms appear more than once in the instruction manual.

A	
A/B Code	45
Active Video Calibration	
Add Channel	
AFC	14
Auto Channel Setting	13
Auto Clock	
Auto Clock Setting	11
Auto Daylight Saving Time	10
Auto Timer	39
AV Connection	25
_	
<u>B</u>	
Band	
<u>C</u>	
Cable Box	
Cable Box Brand Setting	17
Cable Box Controller	15
Cancel Program	38
Cassette Adapter	
Cheld Look	
Child Lock	45
Contents	5
Counter Memory	
Counter Reset	
D	20
Delete Channel	1.4
Dual Quick Setting	
- -	
<u>E</u>	
Editing	40
F	
Fast Motion Playback	24
Frame-by-Frame Playback	24
Function Setting	26
G	
Guide Channel Map	21
Guide Channel Setting	20
<u>H</u>	
Host Channel Selection	9
I	
Index Search	27
Insert Cassette	22
Instant ReView	
ITR (Instant Timer Recording)	

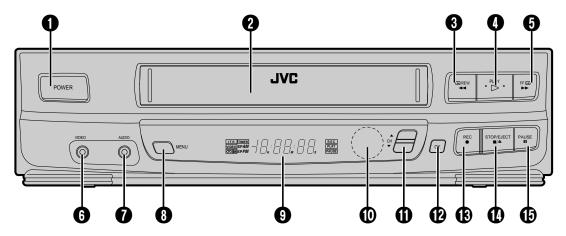
<del>-</del>	
Language Selection	8
M	
Main Menu Manual Channel Setting Manual Clock Setting Manual Tracking MBR (Multi-Brand Remote) Code Setting	14 11 25
N	
Next-Function Memory	29
<u>o</u>	
On-Screen Display On-Screen Timer Programming On-Screen Timer Recording Override Auto Clock Setting	26 36 36
<u>P</u>	
PBS ChannelPlayback	
	2.2
Record Safety Tab	23 27 24 24
S	
Select Cable Box Output Channel Semi-Auto Clock Setting Shuttle Plus Skip Search Slow Motion Playback Specifications Still Playback Superimpose T	16 8 27 24 50
	20
Tape Position Indicator	23 10 12
VCR Plus+	19
VCR Plus+ Timer Programming VCR Plus+ Timer Recording	





52 **INDEX** (cont.)

#### **FRONT VIEW**

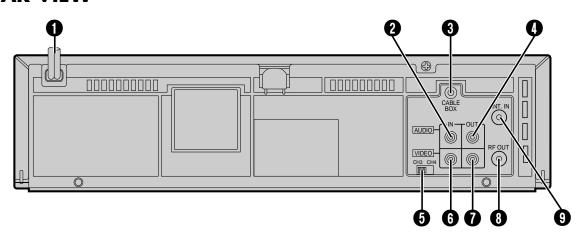


- Power ON/OFF Button ( pg. 8)
- Cassette Loading Slot
- 3 Rewind Button ( pg. 22) Reverse Search Button (F pg. 24)
- 4 Play Button (F pg. 22)
- 5 Fast-Forward Button ( pg. 22) Forward Search Button ( pg. 24)

  Video Input Connector ( pg. 41)
- **7** Audio Input Connector (☐ pg. 41)

- Menu Button (□ pg. 8)
- 9 Front Display Panel ( pg. 53)
- Remote Control Sensor
- ① Channel ▲▼ Buttons (☐ pg. 8)
- OK Button (F pg. 8)
- Record Button (□ pg. 23) Stop/Eject Button (□ pg. 22)
- 1 Pause Button ( pg. 23)

## **REAR VIEW**



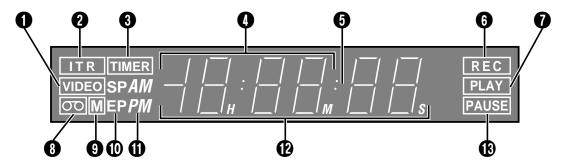
- Power Cord (🖙 pg. 6)
- 2 Audio Input Connector (F pg. 40)
- **3** CABLE BOX Connector (□ pg. 15)
- 4 Audio Output Connector ( pg. 6)
- **⑤** Channel 3/4 Switch (□ pg. 6)

- **6** Video Input Connector (☐ pg. 40)
- **7** Video Output Connector (☐ pg. 6)
- **8** RF OUT Connector (☐ pg. 6)
- **9** ANT. IN Connector ( pg. 6)





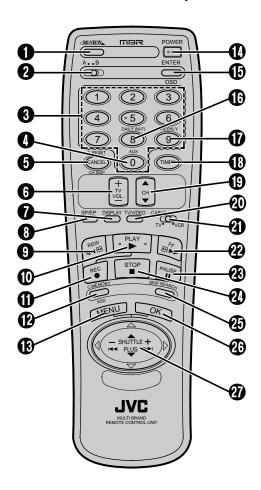
### FRONT DISPLAY PANEL



- 1 Video Mode Indicator ( pg. 8)
- 2 Instant Timer Recording Indicator ( pg. 36)
- 3 Timer Mode Indicator (☐ pg. 35)
- ① Clock Display (□ pg. 7) ③ Counter Display (□ pg. 28)
- 6 Recording Mode Indicator (☐ pg. 23)
- Play Mode Indicator (pg. 22)

- "Cassette Loaded" Mark
- **9** Counter Memory Mark ( pg. 28)
- Tape Speed Indicators ( pg. 23)
- **①** AM/PM Indicators (☐ pg. 7)
- (Pannel Display ["AU" for AUX mode] (F pg. 40)

# **REMOTE CONTROL (Provided)**



- 1 Instant REVIEW Button (☐ pg. 28)
- 2 A/B Code Select Switch ( pg. 45)
- 3 NUMBER Buttons ( pg. 9)
- **6** CANCEL Button (□ pg. 38) Counter [C.] RESET (□ pg. 28)
  - Channel [CH.] SKIP Button ( pg. 14)
- **6** Volume [VOL] +/− Buttons (☐ pg. 43)
- **⑦** DISPLAY Button (☞ pg. 28)
- 3 Recording Speed [SP/EP] Button (☐ pg. 23)
- **9** Rewind [REW] Button (☐ pg. 22)
- ① PLAY Button (F) pg. 22)
- **1** Record [REC] Button (□ pg. 23)
- **②** Counter [C.] MEMORY Button (☐ pg. 28) ADD Button (F) pg. 14)
- 13 MENU Button (☐ pg. 8)
- POWER ON/OFF Button (F) pg. 8)
- **ⓑ** ENTER Button (☞ pg. 23)
  - On-Screen Display [OSD] Button ( pg. 26)
- **(** DAILY Timer Recording Button (□ pg. 34)
- WEEKLY Timer Recording Button ( pg. 34)
- TIMER Button (F pg. 35)
- ⊕ Channel [CH] 
   Buttons ( pg. 8)
- ② TV/VIDEO Button (□ pg. 8)
- **②** TV/CABLE/VCR Switch (☐ pg. 43)
- **2** Fast-Forward [FF] Button ( pg. 22)
- PAUSE Button (□ pg. 23)
- **②** STOP Button (□ pg. 22)
- **②** SKIP SEARCH Button (☐ pg. 27)
- **26** OK Button (**□** pg. 8)
- **②** SHUTTLE PLUS Button (☐ pg. 8)





#### FOR SERVICING

#### 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 (201) 808-9279

5665 Corporate Avenue Cypress, CA 90630-0024

(714) 229-8011

230 Eliot Street

Ashland, MA 01721-2377

(508) 881-5923

1500 Lakes Parkway Lawrenceville, GA 30243-5357

(770) 339-2522

10700 Hammerly, Suite 110 Houston, TX 77043-2310

(713) 935-9331

14505 Commerce Way Miami Lakes, FL 33016-1512

(305) 362-6252

705 Enterprise Street Aurora, IL 60504-8149

(708) 851-7855

2969 Mapunapuna Place Honolulu, HI 96819-2040

(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:

- 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 reference.	Serial No. which is located either on t	the rear, bottom or side of the cabinet. Retain this information for future
Model No.:		Serial No.:
Purchase date:		Name of dealer:





