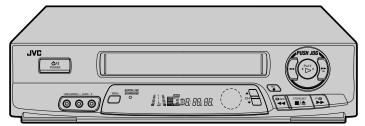




VIDEOGRABADOR VIDEO CASSETTE RECORDER

HR-J7004UM









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-J7004UM

Serial No.

Dear Customer,

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

CAUTIONS

WARNING: WARNING:

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

The POWER 0/1 button does not completely shut off mains power from the unit, but switches operating current on and off. 0/1 shows electrical power standby and 0/1 shows ON.

This unit is produced to comply with Standard IEC Publ. 65.

Warning on lithium battery

The battery used in this device may present a fire or chemical burn hazard if mistreated. Do not recharge, disassemble, heat above 100°C or incinerate.

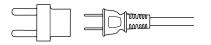
Replace battery with Panasonic (Matsushita Electric), Sanyo, Sony or Maxell CR2025; use of another battery may present a risk of fire or explosion.

- Dispose of used battery promptly.
- Keep away from children.
- Do not disassemble and do not dispose of in fire.

POWER SYSTEM:

This set operates on voltage of AC 110 – 220V \sim , 50/60 Hz with automatic switching.

Use the conversion plug (provided) depending on the type of your AC WALL outlet.



The rating plate and safety caution are on the rear of the unit.

IMPORTANT:

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

CAUTION

- When you are not using the VCR for a long period of time, it is recommended that you disconnect the power cord from the AC outlet.
- Dangerous voltage inside. Refer internal servicing to qualified service personnel. To prevent electric shock or fire hazard, remove the power cord from the AC outlet prior to connecting or disconnecting any signal lead or aerial.
- Changes or modifications not approved by JVC could void user's authority to operate the equipment.

HOW TO USE THIS INSTRUCTION MANUAL

- All major sections and subsections are listed in the Table Of Contents on page 3. Use this when searching for information on a specific procedure or feature.
- The Index on pages 42–44 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 🖙 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 . . .

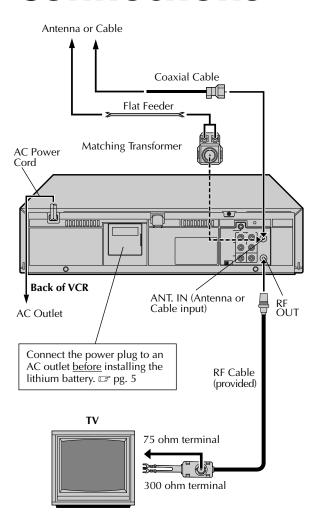
... please read thoroughly the cautions on this page.

WHS HIEL

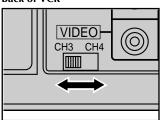
- Cassettes marked "VHS" (or "S-VHS") can be used with this video cassette recorder. However, only "VHS" recordings can be played back in this model.
- HQ VHS is compatible with existing VHS equipment.

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Basic **Connections**



Back of VCR



CHECK CONTENTS

Make sure the package contains all of the accessories listed in "SPECIFICATIONS" (F pg. 45).

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.
 - 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

CONNECT VCR TO **POWER SOURCE**

Connect the power plug to an AC outlet.

FINAL PREPARATION FOR **USE**

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 (F pg. 11) and recording (F pg. 12).

NOTES:

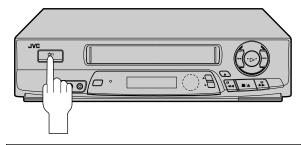
- The VCR channel is the channel on the TV which will display the audio and video signals from the VCR. The VCR's CH3-CH4 switch sets the VCR channel to CH3 or CH4.
- The CH3-CH4 switch is preset to the CH3 position. Set to CH4 if CH3 is used for broadcasting in your area.
- If your TV has no AV input terminals, set the channel on the TV to correspond to the CH3–CH4 switch on the back of the
- 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 (F pg. 25).
- For full identification of the VCR's rear panel, refer to the Index (REAR VIEW IF pg. 43).

c- Connect the supplied RF cable between the RF

the rear of the VCR and the AV IN jacks on the TV.

Plug & Play

Auto Tuner Set



IMPORTANT

- Don't press any buttons on the VCR or remote while Plug & Play is in progress.
- If you perform Plug & Play successfully, there's no need to perform the Tuner procedures (pg. 8). If, however, you want to add or delete channels, refer to "Add Or Delete A Channel" on page 10.

The Plug & Play function sets the tuner channels automatically when the **POWER** button is first pressed to power on the VCR after you connect the power plug to an AC outlet.

1

PLUG & PLAY SETUP

Connect the antenna cable to the VCR (\square pg. 4). Then connect the VCR's power plug to an AC outlet.

TURN ON THE VCR

Press **POWER**. The tuner channels will automatically be set.

- The auto channel set function scans all the channels that are receivable by your VCR. It then automatically assigns each receivable channels to the CH▲▼ buttons. It skips non-receivable channels. During auto channel set the channel numbers are displayed as they are scanned and set.
- After you perform Plug & Play, if the tuner channels have not been set properly or if "SIN SEÑAL" is displayed on screen, make sure that the antenna cable is connected to the VCR properly and turn off the VCR power once, then turn the power back on; the VCR will try Plug & Play again.

RETURN TO NORMAL SCREEN

Press MENU as many times as necessary.

3

On-Screen Display

AJUSTE AUTOMATICO DE CANALES

EXPLORANDO ...

PRESIONE (MENU) P/TERMINAR



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

Front Display Panel



AJUSTE AUTOMATICO DE CANALES

FIN DE EXPLORACION

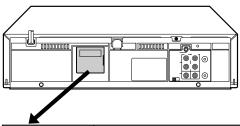
PRESIONE (MENU) P/TERMINAR

When Plug & Play is completed, the lowest position number will appear on the front display panel.



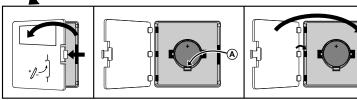
Be sure to connect the power plug to an AC outlet first before installing the lithium battery; otherwise, the battery's service life will be drastically shortened.

• • • • • • • • • • • • • • • • • • • •



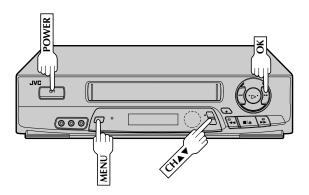
Installing/Removing the lithium battery

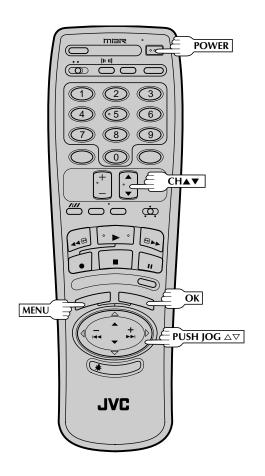
- Make sure that the power plug is connected to an AC outlet and turn off the VCR power.
- Open the battery cover while pressing the release tab as illustrated.
- Insert a lithium battery with the plus (+) side up and push it in.
 - To remove the lithium battery, press the latch adownward using a pointed non-metallic object, then pull out the lithium battery.
- 4 Close the battery cover until it clicks in place.



Clock

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





Preparation

1

TURN ON THE VCR

Press **POWER**.

ACCESS ON-SCREEN MENU

Press **MENU** to bring up the Main Menu screen.

2

ACCESS INITIAL SET SCREEN

At the Main Menu screen, place the arrow next to "AJUSTE INICIAL" by pressing CH▲▼ or PUSH JOG△▽ then press OK.

MENU PRINCIPAL

→AJUSTE DE PROGRAMA
AJUSTE DE FUNCION
AJUSTE DE SINTONIZADOR
AJUSTE INICIAL
IMAGEN B.E.S.T.
ESTABILIZADOR DE VIDEO
PRESIONE (▲ ▼) LUEGO (OK)
PRESIONE (MENU) P/TERMINAR

Language Select

ACCESS LANGUAGE SELECT SCREEN

The messages are preset to appear in Spanish. If you want to see them in English, place the arrow next to "SELECCION DE IDIOMA" by pressing CHA♥ or PUSH JOG△▽, then press OK.

AJUSTE INICIAL

AJUSTE DEL RELOJ → SELECCION DE IDIOMA SUPER LIVE SURROUND

PRESIONE (▲,▼) LUEGO (OK) PRESIONE (MENU) P/TERMINAR

SELECT LANGUAGE

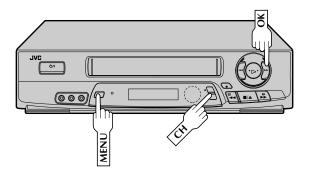
2

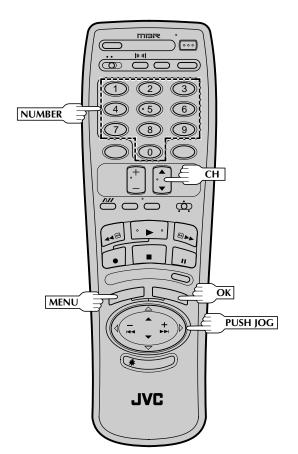
At the Language Select screen, place the arrow next to the desired language by pressing CH▲▼ or PUSH JOG△▽, then press MENU. The Initial Set screen reappears.

LANGUAGE SELECT

→ENGLISH ESPAÑOL

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





Clock Setting

ACCESS CLOCK SET SCREEN

Place the arrow at the Initial Set screen next to "CLOCK SET" by pressing CH▲▼ or PUSH JOG△▽, then press OK.

INITIAL SET

→CLOCK SET LANGUAGE SELECT SUPER LIVE SURROUND

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

SET DATE AND TIME

Press the appropriate **NUMBER** keys to set the date and time (if only 1 digit, press "0" first). Press **CH▲▼** or **PUSH JOG**△∇ to set AM/PM, then press **OK** . The next setting that can be set begins flashing. When you're finished with

DATE 1/ 1/97 WED TIME --:-- AM

CLOCK SET

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

this set-up procedure, press **MENU** to start the clock.

NOTE:

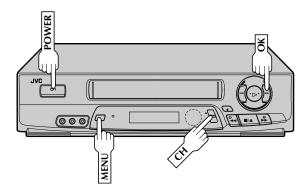
CHA \blacktriangledown and **PUSH JOG** \triangle \triangledown can be used to perform all operations. (In this case, press **OK** after each setting.)

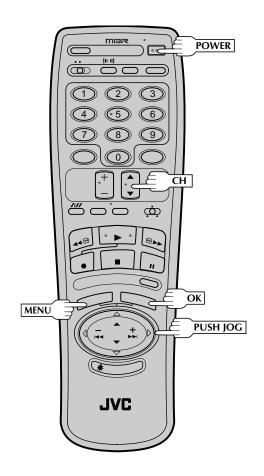
MAKE CORRECTIONS

To change any of the settings, press **OK** or **PUSH JOG** ▷ until the item you want to change blinks, then set as in step **2**.

Tuner

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





Set Receivable Channels

1

TURN ON THE VCR

Press POWER.

ACCESS MAIN MENU SCREEN

Press MENU.

2

ACCESS TUNER SET SCREEN

Place the arrow next to "TUNER SET" by pressing $CH \blacktriangle \blacktriangledown$ or PUSH $JOG \triangle \triangledown$, then press OK.

ACCESS BAND SCREEN

Place the arrow next to "BAND" by pressing CH▲▼ or PUSH JOG△∇, then press OK.

TUNER SET

→BAND
AFC
AUTO CHANNEL SET
MANUAL CHANNEL SET

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

SET FREQUENCY BAND

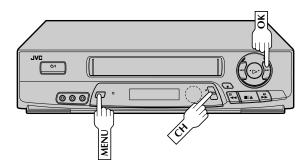
If you receive your TV channels from an external antenna, select "TV". If you receive your TV channels from a cable TV system, select "CATV". Place the arrow next to your choice by pressing CH▲▼ or PUSH JOG△▽, then press

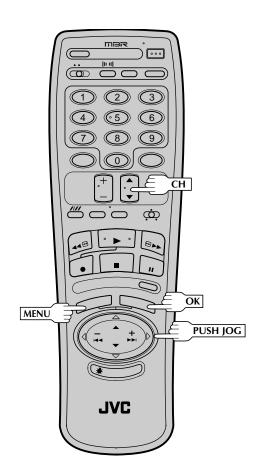
PRESS (♠,♥) TO SELECT PRESS (MENU) TO END

BAND

TV →CATV

MENU to return to the Tuner Set screen.





PERFORM AUTO CHANNEL SET

Place the arrow next to "AUTO CHANNEL SET" by pressing CH▲▼ or PUSH JOG△▽, then press OK. Receivable channels in your area are automatically assigned to

Receivable channels in your area are automatically assigned to the CH A buttons, and non-receivable channels are skipped.

AUTO CHANNEL SET

SCANNING ...

PRESS (MENU) TO END

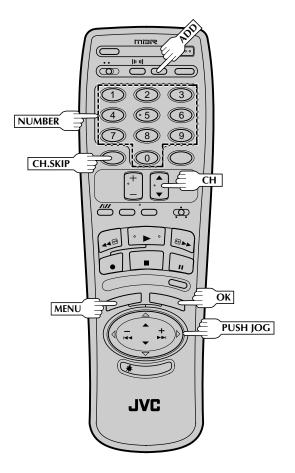
NOTES:

- 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.

WENU CHANGE OF THE PARTY OF THE



Add Or Delete A Channel

ACCESS TUNER SET SCREEN

Access by performing steps 2 and 3 of the Tuner procedure on page 8.

- 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 $CH \blacktriangle \nabla$ or **PUSH JOG** $\triangle \nabla$, then press **OK**.

MAKE SELECTION

Place the arrow next to "SPCL" by pressing CH▲▼ or PUSH JOG△∇, then press MENU to return to the Tuner Set screen.

• It is necessary to set AFC to SPCL (special) for tuning on certain CATV systems.

AFC NORM →SPCI

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

ACCESS MANUAL CHANNEL SET SCREEN

Place the arrow next to "MANUAL CHANNEL SET" by pressing CH▲▼ or PUSH JOG△▽, then press OK.

STORE DESIRED CHANNEL

Input the channel number using the NUMBER keys or by pressing CH▲▼ or PUSH JOG△▽, 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

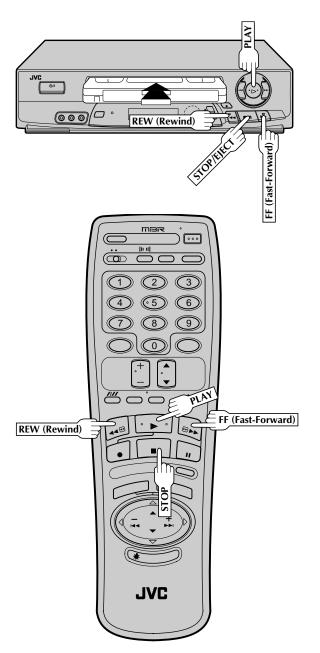
SELECT CH NO. AND PRESS (ADD/SKIP) PRESS (MENU) TO END

RETURN TO NORMAL SCREEN

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

Simple Playback

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



LOAD A CASSETTE

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

- The VCR's power comes on automatically.
- The counter is automatically reset to "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**. "B.E.S.T. PICTURE SYSTEM" appears on screen (pp. 24).

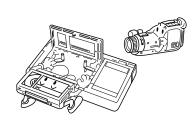
STOP PLAYBACK

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**

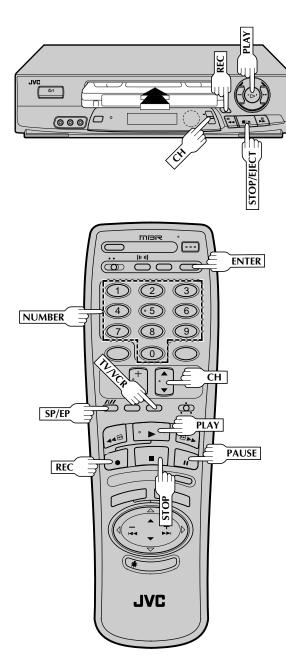
Compact VHS* TC-20 (ST-C20**) TC-30 (ST-C30**) TC-40 (ST-C40**)



- * 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

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



LOAD A CASSETTE

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

SELECT RECORDING CHANNEL

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

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

SET TAPE SPEED

Press SP/EP to set the recording speed.

START RECORDING

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

B.E.S.T. takes place at the beginning of both the first SP and the first EP recording after inserting the cassette (F) pg. 23).

PAUSE/RESUME RECORDING

Press PAUSE. Press PLAY to resume recording.

 During record pause, you can change the recording channel by using the CH▲▼ buttons or NUMBER keys.

STOP RECORDING

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

Recording Resume Function

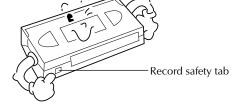
If there is a power outage during recording (or Instant Timer Recording or timer recording), the recording will resume automatically when power is restored to the VCR.

Accidental erasure prevention

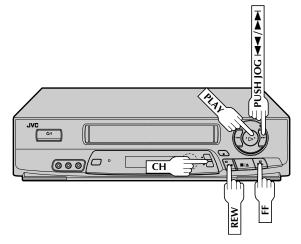
To prevent accidental recording on a recorded cassette, remove its record safety tab.

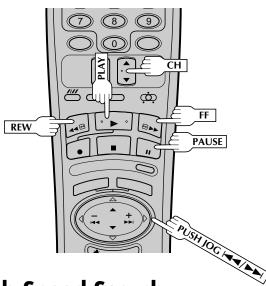
To record on it later gover the help with adhesive tape.

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



Playback Features





High-Speed Search

ACTIVATE HIGH-SPEED SEARCH

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

To resume normal playback, press **PLAY**.

NOTE:

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

Still Picture/Frame-By-Frame Playback

1

PAUSE DURING PLAYBACK

Press **PAUSE**. If there is vertical jitter, use the **CH** ▲ or ▼ button to correct the picture.

ACTIVATE FRAME-BY-FRAME PLAYBACK

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

Press **PUSH JOG** ► or ► repeatedly to advance one frame at a time.

Press **PUSH JOG** ►►I for forward frame by frame playback or **PUSH JOG** I◄► for reverse frame by frame.

To resume normal playback, press **PLAY**.

Slow Motion/Reverse Slow Motion

ACTIVATE SLOW-MOTION PLAYBACK

During still picture, press and hold **PUSH JOG** ► or ►. Release to return to still picture.

OR

For hands-free slow-motion, press **PUSH JOG** I during playback to decrease speed in the forward direction. Continue to press I to select the various slow motion, reverse slow motion, reverse play and reverse search modes.

To resume normal playback, press PLAY.

NOTE:

If noise bars appear during slow motion, press $CH \triangle$ or ∇ a few times to remove the noise bars from screen.

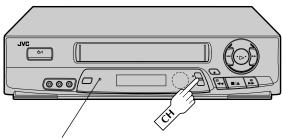
Variable-Speed Search/ Reverse Motion Playback

ACTIVATE VARIABLE-SPEED SEARCH

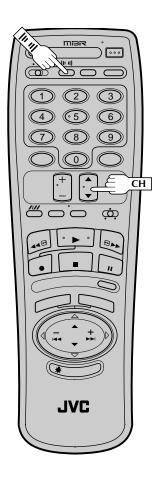
During playback, press **PUSH JOG** \blacktriangleleft or \triangleright I.

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

To resume normal playback, press PLAY.



SUPER LIVE SURROUND indicator



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.

1

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 CHA v 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

3

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

 When automatic tracking is re-engaged, B.E.S.T. is automatically activated.

NOTES:

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

Super Live Surround

To enjoy more dynamic stereo sound with Hi-Fi stereo tapes.



ACTIVATE SUPER LIVE SURROUND

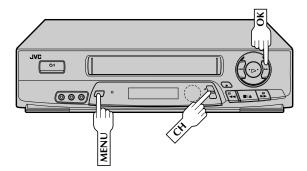
Press III during playback or stop.

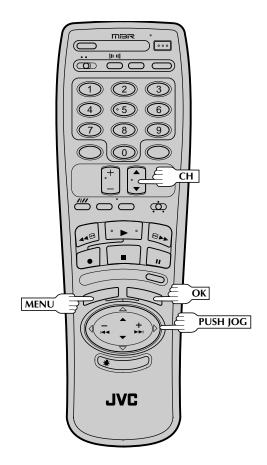
• Pressing the III all button turns on/off the SUPER LIVE SURROUND indicator on the VCR.

NOTE:

You can also change the setting at the on-screen menu:

- 1. Press MENU.
- 2. Place the arrow next to "INITIAL SET" by pressing CH▲▼, then press OK.
- 3. Place the arrow next to "SUPER LIVE SURROUND" by pressing CHA▼, then press OK.
- Place the arrow next to "ON" or "OFF" by pressing CH▲▼, then press MENU as many times as necessary.





Video Stabilizer

You can correct vertical vibration when playing back unstable EP recordings that were made on another VCR. When this function is set to "ON", vertical vibration will be automatically corrected. *The default setting is "OFF".

1

ACCESS MAIN MENU SCREEN

Press MENU.

ACCESS VIDEO STABILIZER SCREEN

Place the arrow next to "VIDEO STABILIZER" by pressing CH▲▼ or PUSH JOG △▽, then press OK.

MAIN MENU

PROGRAM SET FUNCTION SET TUNER SET INITIAL SET B.E.S.T. PICTURE SYSTEM → VIDEO STABILIZER PRESS (▲,▼), THEN (OK) PRESS (MENU) TO END

ACTIVATE VIDEO STABILIZER

Place the arrow next to "ON" by pressing CH▲▼ or PUSH JOG △∇.

VIDEO STABILIZER

→ON OFF

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

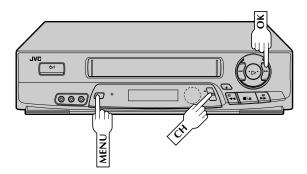
RETURN TO NORMAL SCREEN

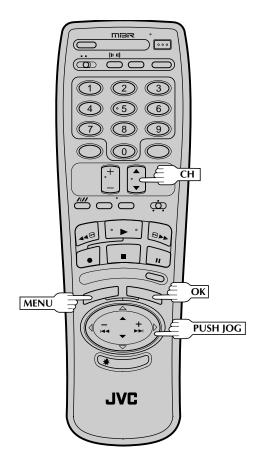
4

Press MENU.

NOTES:

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





Select The Soundtrack

Your VCR can record two soundtracks simultaneously (Normal and Hi-Fi) and play back the selected one, or both together. Or, when viewing a pre-recorded tape that contains both a main and a sub audio track, you can choose to listen to either one by selecting either "L" or "R" in step 4.

ACCESS MAIN MENU SCREEN

Press **MENU** during playback or when VCR is in stop mode.

ACCESS FUNCTION SET SCREEN

Place the arrow next to "FUNCTION SET" by pressing CH▲▼ or PUSH JOG△▽, then press OK.

ACCESS AUDIO MONITOR SCREEN

Place the arrow next to "AUDIO MONITOR" by pressing CHA▼ or PUSH JOG△∇, then press OK.

FUNCTION
AUTO TIMER
SUPERIMPOSE
2ND AUDIO
→AUDIO MONITOR
AUX INPUT
AUTO SP/EP TIMER
SPECIAL FUNCTION
PRESS (▲,▼), THEN (OK)
PRESS (MENU) TO END

SELECT MODE

You have five choices:

a– Hi-Fi

b– Left

c- Right

d- Normal

e- Mix

AUDIO MONITOR

→HI-FI L R Norm Mix

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

Place the arrow next to your choice by pressing CH▲▼ or PUSH JOG△▽.

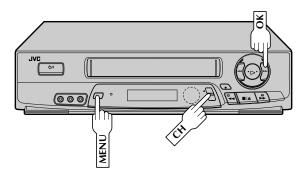
 The indicator on the front display panel representing the mode you selected lights up (Hi-Fi: L+R; L: L; R:R; NORM: NORM; MIX: L+R).

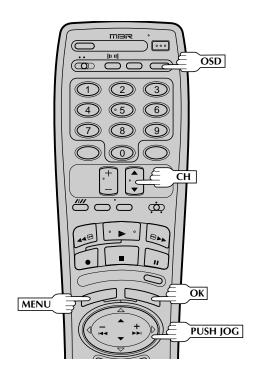
RETURN TO NORMAL SCREEN

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

NOTE:

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





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.

ACCESS FUNCTION SET SCREEN

Place the arrow next to "FUNCTION SET" by pressing CH▲▼ or PUSH JOG△∇, then press OK.

ACCESS SUPERIMPOSE SCREEN

Place the arrow next to "SUPERIMPOSE" by pressing CH▲▼ or PUSH JOG△∇, then press OK.

FUNCTION
AUTO TIMER

SUPERIMPOSE
2ND AUDIO
AUDIO MONITOR
AUX INPUT
AUTO SP/EP TIMER
SPECIAL FUNCTION
PRESS (A. ♥), THEN (OK)
PRESS (MENU) TO END

SELECT MODE

Place the arrow next to "ON" or "OFF" by pressing CH▲▼ or PUSH JOG△▽.

SUPERIMPOSE →ON OFF

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

RETURN TO NORMAL SCREEN

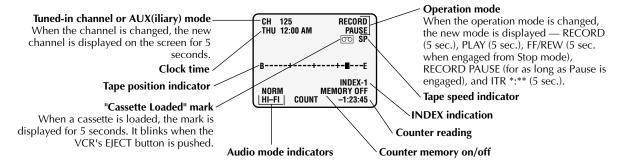
Press **MENU** as many times as necessary.

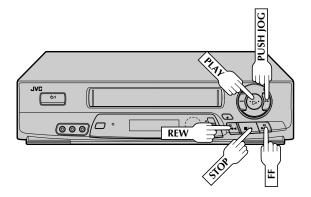
5

NOTE:

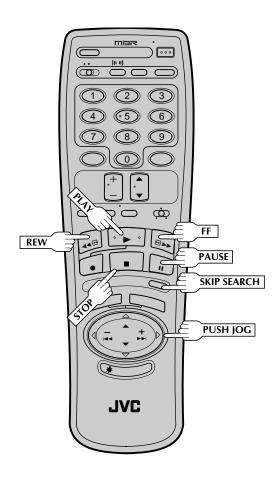
If you engage the Record Pause mode, RECORD/PAUSE is displayed whether "SUPERIMPOSE" is set to "ON" or "OFF".

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









Skip Search

1

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.

NOTE:

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

Repeat Playback

1

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.

To s

STOP REPEAT

To stop, press STOP at any time.

NOTE:

Pressing PLAY, REW, FF, PAUSE or PUSH JOG ► or ► also stops Repeat Playback.

Index Search

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

1

START SEARCH

While the tape is stopped, press **PUSH JOG** $\blacktriangleleft \blacktriangleleft$ or $\blacktriangleright \blacktriangleright$ 1.

2

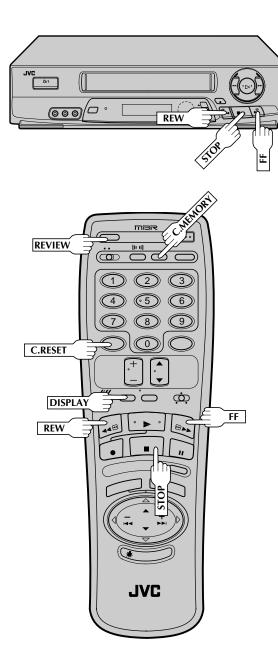
ACCESS DISTANT CODE

To access a recording 2–9 index codes away, press **PUSH JOG** I◀◀ or ▶▶I repeatedly until the correct number is displayed on screen (only if SUPERIMPOSE is set to ON (□ pg. 17). Playback begins automatically when desired recording is located.

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

NOTE:

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



Instant ReView

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

1

ACTIVATE INSTANT REVIEW

After ensuring that 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.
- If necessary press REW or FF when play starts to search visually to find the very beginning of the desired program.
- If the tape is already rewound when REVIEW is pressed, it will play the tape from the beginning. It will not fast forward to an index code.
- The Instant Review function will also operate if the VCR's power is on.

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".

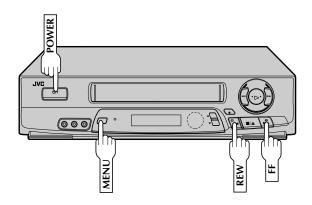
Then press **C.MEMORY**. The Counter Memory indicator in the front display panel lights.

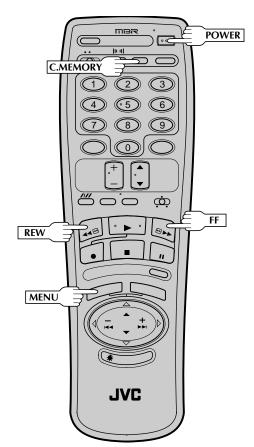
RETURN TO COUNTER POSITION ZERO

2

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

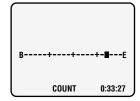
• To cancel Counter Memory, press **C.MEMORY**.





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 a "in relation to "B" (Beginning) or "E" (End) shows you where you are on the tape.



NOTE:

SUPERIMPOSE must be set to ON, or the indicator will not appear (137).

Next Function Memory

You can set your VCR's power to go off automatically after the tape is fully rewound. Before starting, make sure the VCR is in the Stop mode.

For Automatic Power Off After Tape Rewind press **REW**, then press **POWER** within 2 seconds.

NOTE:

If you want the power to be turned off automatically when the counter reads "0H00M00s" (instead of at the beginning of the tape), press **C.MEMORY** so that the "M" mark appears before pressing **REW**.

AV COMPU LINK Playback

Your VCR is compatible with JVC's AV COMPU LINK components, including amplifiers (or receivers) and televisions. AV COMPU LINK provides one touch control of the audio and video components that are linked via their AV COMPU LINK connectors.

For example: simply load a cassette in the VCR and press **PLAY** and the AV COMPULINK components automatically power on

and the AV COMPU LINK components automatically power on, the TV's VIDEO mode is selected and the VCR goes into play mode. (**PLAY** need not be pressed if the cassette's record safety tab is removed.)

1

MAKE CONNECTION

Connect your VCR to an AV COMPU LINK component as shown in the illustration on page 21.

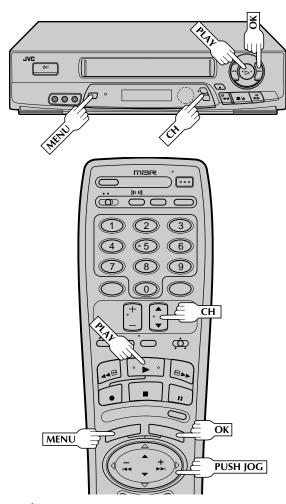
• The Mini-plug cable is a mono 3.5 mm mini-plug to mono 3.5 mm mini-plug connector.

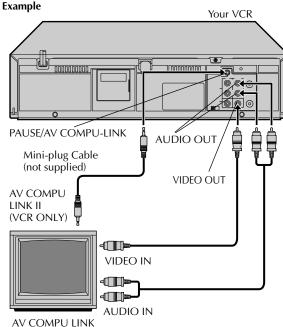
TURN ON THE VCR

Press **POWER**.

ACCESS MAIN MENU SCREEN

Press **MENU**.





Television

ACCESS FUNCTION SET SCREEN

Press **CH**▲▼ or **PUSH JOG**△▽ to place the arrow next to "FUNCTION SET", then press **OK**.

ACCESS SPECIAL FUNCTION SCREEN

Press CH▲▼ or PUSH JOG△▽ to place the arrow next to "SPECIAL FUNCTION", then press OK.

FUNCTION
AUTO TIMER
SUPERIMPOSE
2ND AUDIO
AUDIO MONITOR
AUX INPUT
AUTO SP/EP TIMER
-> SPECIAL FUNCTION
PRESS (A. ▼), THEN (OK)
PRESS (MENU) TO END

ENABLE AV COMPU LINK PLAYBACK

Press CH▲▼ or PUSH JOG△▽ to place the arrow next to "AV COMPU-LINK".

SPECIAL FUNCTION

PAUSE → AV COMPU-LINK

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

RETURN TO NORMAL SCREEN

Press MENU as many times as necessary.

PERFORM AV COMPU LINK PLAYBACK

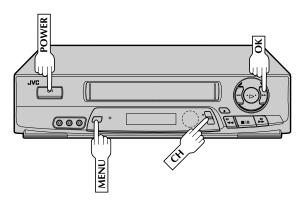
Simply insert a cassette and press **PLAY** (if the cassette's record safety tab has been removed, playback begins automatically). Linked components are turned on, and the TV set to its VIDEO mode, automatically!

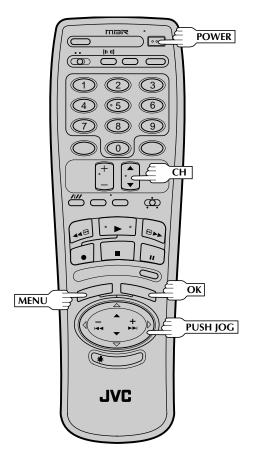
NOTE:

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

B.E.S.T. Picture System

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





Your VCR is equipped with the B.E.S.T. (Biconditional Equalized Signal Tracking) 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.

ACCESS MAIN MENU SCREEN

Press MENU.

2

ACCESS B.E.S.T. PICTURE SYSTEM SCREEN

Press CH▲▼ or PUSH JOG△▽ to place the arrow next to "B.E.S.T. PICTURE SYSTEM", then press OK.

MAIN MENU

PROGRAM SET FUNCTION SET TUNER SET INITIAL SET →B.E.S.T. PICTURE SYSTEM VIDEO STABILIZER PRESS (▲,♥), THEN (OK) PRESS (MENU) TO END

Pla

SELECT MODE

Place the arrow next to "ON" by pressing CH▲▼ or PUSH JOG△∇, then press OK to move the arrow to the Playback section. Set Playback to "ON", then press MENU to return to the normal screen. (Pressing OK

RECORDING

→ ON

OFF

PLAYBACK
→ ON

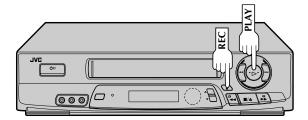
OFF

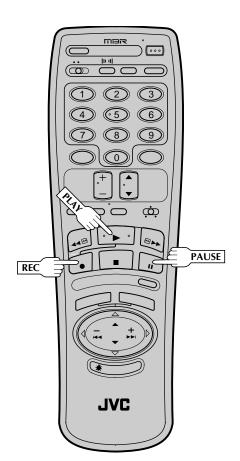
PRESS (▲, ▼), THEN (OK)

PRESS (MENU) TO END

B.E.S.T. PICTURE SYSTEM

returns the arrow to the Recording section.)





Recording

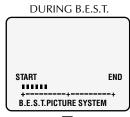
Perform steps $\mathbf{1} - \mathbf{3}$ on page 12 ("Simple Recording") before continuing.

1

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.





B.E.S.T. COMPLETE

END

NOTES:

- B.E.S.T. occurs immediately prior to both the first SP and the first EP recording after inserting the cassette. It does not take place during recording.
- e In the case of timer recording, B.E.S.T. 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).

 B.E.S.T.PICTURE SYSTEM

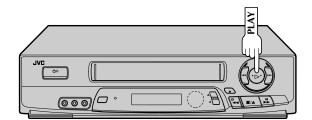
 B.E.S.T.PICTURE SYSTEM

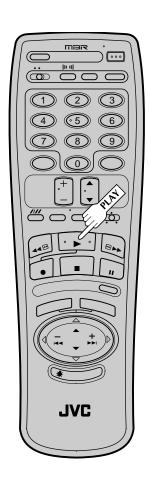
START

- Once the cassette is ejected, the B.E.S.T. data is canceled. The next time the cassette is used for recording, B.E.S.T. is re-performed.
- While B.E.S.T. is operative, the PAUSE button will not function.
- SUPERIMPOSE must be set to "ON" or the B.E.S.T. Picture System screen will not appear (☐ pg. 17).

ATTENTION:

- As B.E.S.T. takes place before recording actually starts, there is a delay of about 7 seconds after REC and PLAY on the remote, or REC on the VCR's front panel, are pressed. To make sure you record the desired scene or program completely, first perform the following steps:
- 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 B.E.S.T. and start recording right away, set "RECORDING" to "OFF" in step 4 of the Preparation procedure (pp. 22).





Playback

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

Before beginning, perform steps ${\bf 1}$ and ${\bf 2}$ on page 11 ("Simple playback").

1

START PLAYBACK

Press **PLAY**.

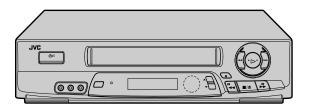
• The VCR adjusts the playback picture quality based on the quality of the tape in use.

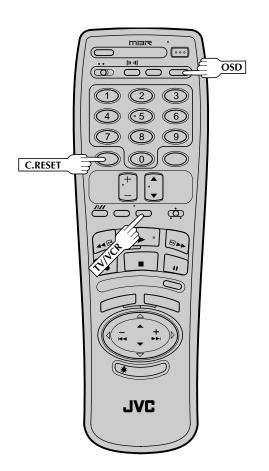


NOTES:

- 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 (pp. 22).
- The B.E.S.T. Picture System screen only appears at the beginning of automatic tracking. Even though the screen doesn't appear after that, the B.E.S.T. function is operative.
- SUPERIMPOSE must be set to "ON" or the B.E.S.T. Picture System screen will not appear (☐ pg. 17).

Recording Features





Record One Program While Watching Another

1

ENGAGE TV MODE

During recording...

- If using the RF connection (pg. 4), press TV/VCR.
 The VCR's VCR indicator goes out and the TV broadcast being recorded disappears.
- If using the AV connection () pg. 4), change the TV's input mode from AV to TV.

SELECT CHANNEL FOR VIEWING

2

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

Display Elapsed Recording Time

1

RESET COUNTER TO ZERO

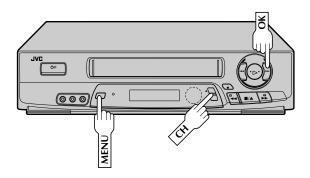
Before recording starts, press **C.RESET**. The counter resets to zero and displays the exact elapsed time as the tape runs.

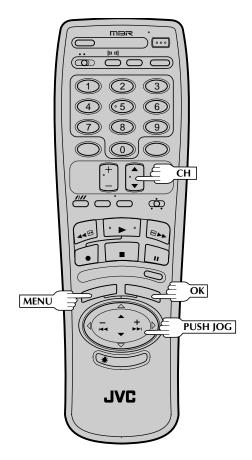
DISPLAY ELAPSED TIME ON SCREEN

2

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

- Make sure "SUPERIMPOSE" is set to "ON" (□ pg. 17).
- The indications are not be recorded.





Stereo And SAP (Second Audio Program)

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

- The ST indicator on the front display panel lights during stereo broadcast reception, and SAP lights during SAP program reception.
- Both indicators light when a stereo program is accompanied by SAP audio.

To Record Stereo Programs . . .

. . . simply follow the basic recording procedure.

To Listen To Stereo Soundtrack During Recording . . .

... select "HI-FI" at the Audio Monitor screen (pg. 16).

To Record SAP Programs . . .

ACCESS MAIN MENU SCREEN

Press MENU.

ACCESS FUNCTION SET SCREEN

Place the arrow next to "FUNCTION SET" by pressing **CH**▲ \blacktriangledown or **PUSH JOG**△ \triangledown , then press **OK**.

ACCESS 2ND AUDIO SCREEN

Place the arrow next to "2ND AUDIO" by pressing CH▲ \blacktriangledown or PUSH JOG \triangle \triangledown , then press OK.

SELECT MODE

Place the arrow next to "ON" by pressing CH▲▼ or **PUSH JOG**△♥.

2ND AUDIO →0N OFF

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

RETURN TO NORMAL **SCREEN**

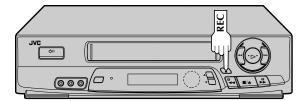
Press MENU as many times as necessary.

NOTES:

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

27

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.

2

ENGAGE ITR MODE

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

SET RECORDING DURATION

3

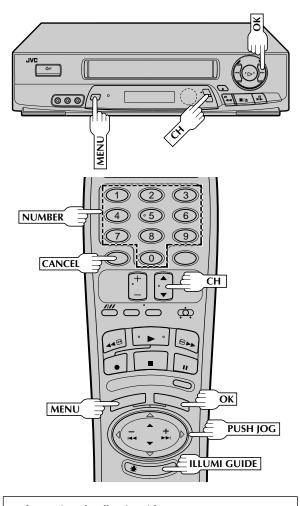
If you want to record for more than 30 minutes, press **REC** to extend the time. Each press extends recording time by 30 minutes.

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.

On-Screen Timer Programming

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



When Using The Illumi-Guide Feature

- Buttons light or blink on the remote control for approximately 10 seconds. If the button or buttons extinguish during timer programming, press ILLUMI GUIDE and the button or buttons previously lit or blinking come back on. If the button or buttons do not re-light or start blinking again, press MENU as many times as necessary to return to the normal screen and extinguish all illuminated buttons, and re-perform the timer programming procedure from the beginning.
- If for some reason the remote control's signal is not received by the VCR, press MENU as many times as necessary to return to the normal screen and extinguish all illuminated buttons, and re-perform the timer programming procedure from the beginning.

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 (pg. 6). Or you can use the Illumi-Guide feature, where the remote control tells you which button to press next by lighting it up. To use the Illumi-Guide feature, with the TV/CABLE/VCR switch set to "VCR", press ILLUMI GUIDE before performing step 2. (MENU, REW, PLAY, FF light up at this time.)

If you aren't going to use the Illumi-Guide feature, go directly to step 1.

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 ON-SCREEN MENU

Press MENU to bring up the Main Menu screen.

 If you are using the Illumi-Guide feature, OK blinks when the following buttons are lit: NUMBER keys (0 – 9), PUSH JOG, CANCEL and MENU.

ACCESS PROGRAM SET SCREEN

Make sure the arrow is to the left of "PROGRAM SET", then press **OK**.

• If you are using the Illumi-Guide feature, **OK** blinks when the following buttons are lit: **NUMBER** keys (0 – 9),

PROGRAM 1

DATE --/-START --:--AM
STOP --:--AM
CHANNEL --SP

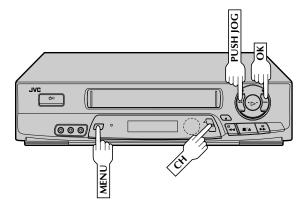
PRESS NUMBER KEY(0-9)
OR (♠, ♥), THEN (OK)
PRESS (MENU) TO END

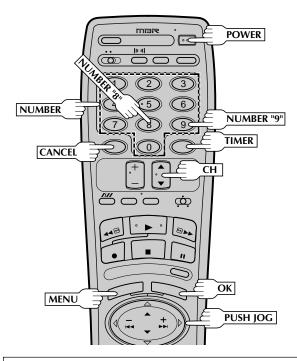
PUSH JOG, CANCEL and MENU.

SELECT PROGRAM NUMBER

Press the appropriate **NUMBER** keys or **CH**▲▼ or **PUSH JOG**△▽ 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.

• If you are using the Illumi-Guide feature, **OK** blinks when the following buttons are lit: **NUMBER** keys (0 – 9), **PUSH JOG**, **CANCEL** and **MENU**.





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 9/6 SAT START 12:00 PM STOP 1:00 PM CHANNEL 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 (if the lithium battery is not exhausted).
- 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 date.
- After timer recording is completed, the VCR's power goes off automatically.

SET PROGRAM INFORMATION

Press the appropriate **NUMBER** keys to set the date, start/stop time and channel number. Press **CH**▲▼ or **PUSH JOG**△▽ 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 PUSH JOG△▽ buttons. (In this case, press OK after each setting.)
 - Do not use the **CH** ∇ or **PUSH JOG** ∇ button to set the date.
- If you are using the Illumi-Guide feature, OK blinks when the following buttons are lit: NUMBER keys (0 – 9), PUSH JOG, CANCEL and MENU.

NOTES:

- 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 channels received by the cable box.)
- To timer-record cable or satellite channels through an external tuner connected to the VCR's external input connectors, press the NUMBER key "0" so that "AUX" appears instead of a channel number.
- **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 **PUSH JOG** ⊲ ▷ until the item you want to change begins blinking. Then set as in step 5.

 If you are using the Illumi-Guide feature, OK blinks when the following buttons are lit: NUMBER keys (0 – 9), PUSH JOG, CANCEL and MENU.

RETURN TO NORMAL SCREEN

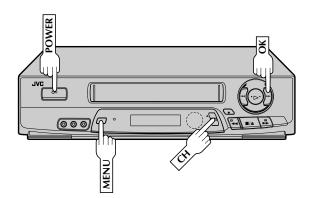
Press MENU as many times as necessary.

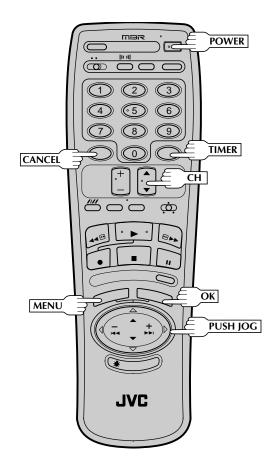
- Press just once to access the Auto Timer screen (F) pg. 32).
- If you are using the Illumi-Guide feature, all buttons go out.

ENGAGE TIMER MODE

Press TIMER. The VCR turns off automatically.

- You can program the timer while a regular recording is in progress; the on-screen menu will not be recorded.
- If the end of tape is reached during timer recording, the cassette is automatically ejected.
- When timer-recording cable or satellite channels through an external tuner, be sure to keep the Cable Box or satellite receiver's power ON.





Check And Cancel Programs

1

DISENGAGE TIMER

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

ACCESS PROGRAM SET SCREEN

2

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

CHECK PROGRAM INFORMATION

3

Press CHA
ightharpoonup or PUSH JOG riangle
abla to check the programs in succession.

To Cancel A Program . . .

4

CANCEL A PROGRAM

Press CANCEL.

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

RETURN TO NORMAL SCREEN

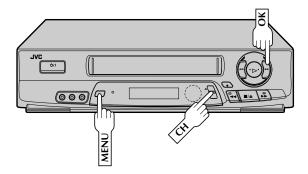
5

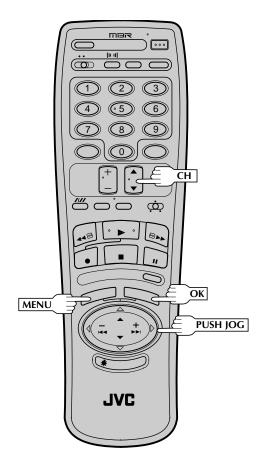
Press **MENU** as many times as necessary. If there are still programs remaining, go to step **6**.

RE-ENGAGE TIMER

6

Press **TIMER** again.





NOTES:

- If you have programmed the VCR to timer-record 2 or more programs, the second program and those thereafter may not fit on the tape if you set the Auto SP/EP Timer mode to "ON". In this case, make sure the mode is not engaged, then set the tape speed manually during timer programming.
- There may be some noise at the point on the tape where the VCR switches from SP to EP mode.
- The Auto SP/EP Timer feature is not available during ITR (Instant Timer Recording), and the feature will not work properly with any tapes other than the following: T-30, T-60, T-90, and T-120.

Auto SP/EP Timer

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

For Example . . .

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

Approximately 110 minutes	Approximately 30 minutes
SP mode	EP mode

Total 140 minutes

Make sure you select "ON" at the Auto SP/EP Timer screen before performing timer programming.

ACCESS MAIN MENU **SCREEN**

Press MENU.

ACCESS FUNCTION SET SCREEN

Place the arrow next to "FUNCTION SET" by pressing **CH▲** \blacktriangledown or **PUSH JOG** \triangle \triangledown , then press **OK**.

ACCESS AUTO SP/EP TIMER SCREEN

Place the arrow next to "AUTO SP/EP TIMER" by pressing $CH \blacktriangle \blacktriangledown$ or $PUSH JOG \triangle \triangledown$, then press OK.

SELECT MODE

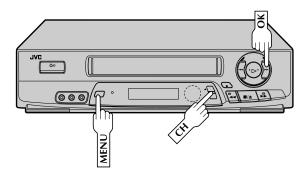
Place the arrow next to your choice ("ON" or "OFF") by press CH▲▼ or PUSH JOG $\triangle \nabla$.

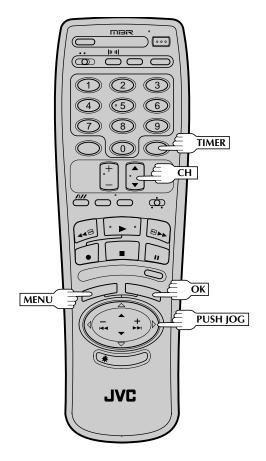
AUTO SP/EP TIMER →ON OFF

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

RETURN TO NORMAL **SCREEN**

Press MENU as many times as necessary.





Auto Timer

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

1

ACCESS MAIN MENU SCREEN

Press MENU.

ACCESS FUNCTION SET SCREEN

Place the arrow next to "FUNCTION SET" by pressing CH▲▼ or PUSH JOG△∇, then press OK.

ACCESS AUTO TIMER SCREEN

Place the arrow next to "AUTO TIMER" by pressing CH▲▼ or PUSH JOG△∇, 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 On-Screen Timer Programming procedure (pg. 29), press **MENU**.

SELECT MODE

Place the arrow next to your choice ("ON" or "OFF") by pressing CH▲▼ or PUSH JOG△▽.

AUTO TIMER →ON OFF

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

RETURN TO NORMAL SCREEN

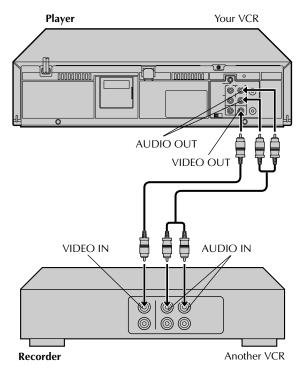
Press **MENU** as many times as necessary.

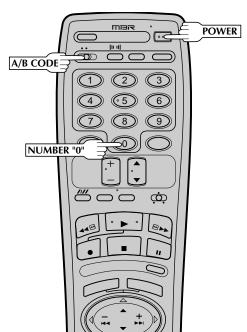
NOTE:

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**.

DITING

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 player's VIDEO OUT and AUDIO OUT connectors and the recorder's VIDEO IN and AUDIO IN connectors.

• When connecting to a monaural VCR, connect your VCR's AUDIO IN/OUT L connector to the AUDIO IN/OUT connector on the monaural VCR.

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).

NOTE:

When using this VCR as the recorder, make sure to select "FRONT" or "REAR" (depending on which input connectors you use) at the Aux Input Screen. (To select the correct AUX input connector, follow steps 4, 5, 9-11 from the "Edit From A Camcorder" section,
pg. 34.)

START PLAYER

Set to its play mode.

START RECORDER

Set to its record mode.

Control Two JVC VCRs

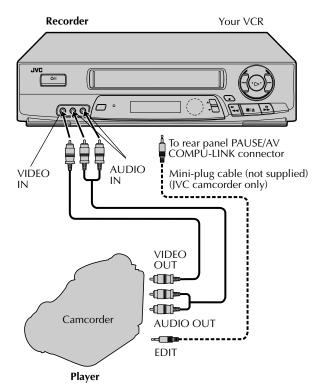
The supplied remote control is capable of controlling two JVC VCRs independently using the A/B CODE switch. You can set this VCR so it responds to remote commands only when the switch is set to **B**, and another VCR so it responds to commands when the switch is set to A. The switch is preset to A because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

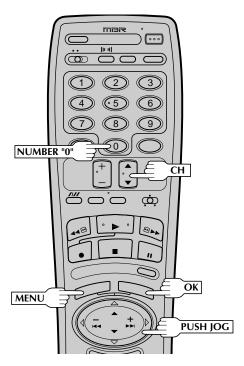
- 1 Unplug the VCR's power cord from the AC outlet.
- ² Set the **A/B CODE** switch on the remote control to **B**.
- 3 Plug the VCR's power cord back into the AC outlet. 4 Turn the VCR's power back on by pressing **POWER** on
 - the remote.

The VCR will now respond only to B-code commands.

34

Edit From A Camcorder





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

1

MAKE CONNECTIONS

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 a Master Edit Control-equipped JVC camcorder is used, the camcorder is capable of controlling your VCR. The Mini-plug cable is a mono 3.5 mm mini-plug to mono 3.5 mm mini-plug connector.
- When using a monaural camcorder, connect its AUDIO OUT connector to the AUDIO IN L connector on your VCR.

LOA

LOAD A CASSETTE

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

SET RECORDER'S INPUT MODE

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

ACCESS MAIN MENU SCREEN

Press **MENU**.

ACCESS FUNCTION SET SCREEN

Press CHAV or PUSH $JOG\Delta\nabla$ to place the arrow next to "FUNCTION SET", then press **OK**.

If you're using a JVC Master Edit Control-equipped camcorder — step 6
If not — step 9

ACCESS SPECIAL FUNCTION SCREEN

Press $CH \blacktriangle \blacktriangledown$ or $PUSH JOG \triangle \triangledown$ to place the arrow next to "SPECIAL FUNCTION", then press OK.

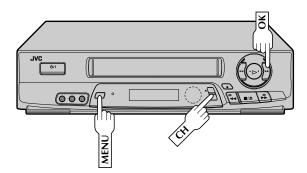
SELECT MODE

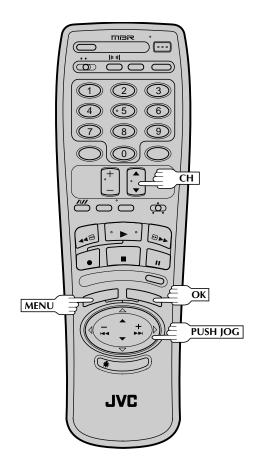
Press CH▲▼ or PUSH JOG△▽ to place the arrow next to "PAUSE".

SPECIAL FUNCTION

→PAUSE
AV COMPU-LINK

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





RETURN TO FUNCTION **SET SCREEN**

Press **MENU**.

ACCESS AUX INPUT SCREEN

Press $\mathbf{CH} \blacksquare \blacktriangledown$ or \mathbf{PUSH} $\mathbf{JOG} \triangle \triangledown$ to place the arrow next to "AUX INPUT", then press OK.

SELECT INPUT

If you are connecting the AV cable to the AV connectors on the front of the VCR, place the arrow next to "FRONT" by pressing CH▲▼ or PUSH **JOG** $\triangle \nabla$. If you are connecting the AV cable to

the AV connectors on the

back of the VCR, place the arrow next to "REAR" by pressing $CH \blacktriangle \blacktriangledown$ or $PUSH JOG \triangle \triangledown$.

RETURN TO NORMAL **SCREEN**

Press MENU as many times as necessary.

START PLAYER

Set the camcorder to its play mode.

START RECORDER

Set your VCR to its record mode.

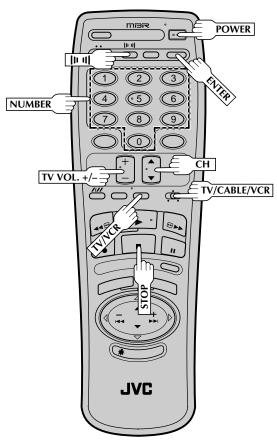
• If you are using a Master Edit Control-equipped JVC camcorder, it can put the recorder automatically into Record mode. (Refer to camcorder's instruction manual.)

AUX INPUT

→ FRONT RFAR

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

36 SPECIAL FEATURES



TV BRAND NAME	BRAND CODE
JVC	01
GRADIENTE	02, 11, 12, 16
PHILIPS	03
CCE	03
SANYO	04
PHILICO/HITACHI	05
SHARP	06
TOSHIBA	07
MITSUBISHI	08
PHILICO/DAEWOO	09
SAMSUNG	10
GOLDSTAR	11
RCA	12
PANASONIC	13
GRUNDIG	14
SONY	15
NEC	16
PHILICO	17
NOBLEX	18

(Ex.) To set remote control to PHILIPS 03: POWER → → → → → → → → → Release Hold down Press in succession

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.

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** on the VCR's remote control, enter your TV's brand code using the **NUMBER** keys, then press **STOP**. Follow the example shown at bottom left.

- 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.
- GRADIENTE has four codes. If the TV does not function with one code, try entering another.

OPERATE TV

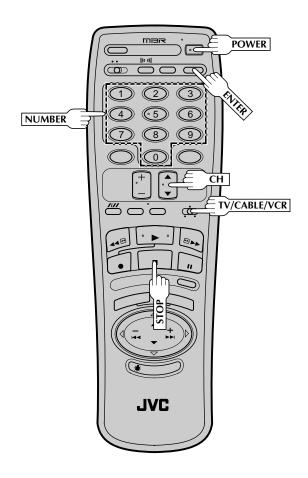
4

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/VCR, CH▲▼, TV 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.



Cable Box Multi-Brand Remote Control

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

1

TURN ON THE CABLE BOX

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

SET REMOTE CONTROL

control to CABLE.

MODE
Set the TV/CABLE/VCR switch on the VCR's remote

ENTER CABLE BOX BRAND

While holding down **POWER** on the VCR's remote control, use the **NUMBER** keys to enter the cable box brand number from the chart at bottom left and then press **STOP**.

Follow the example shown below.

 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

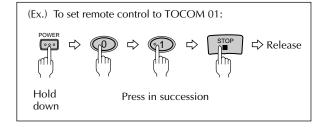
First, press **POWER** to see if the cable box's power goes off as it should. If it does, try other functions (**CH**▲▼ and the **NUMBER** keys can be used to operate the cable box).

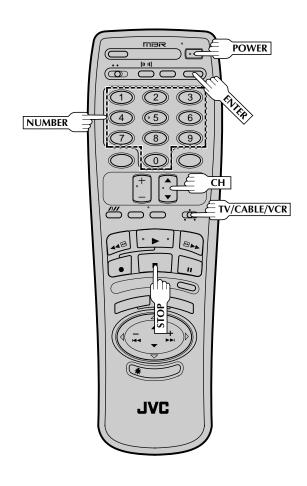
- For some brands of cable box, you must press **ENTER** after having pressed the **NUMBER** keys.
- To return the remote to VCR control, set the TV/ CABLE/VCR switch to VCR.

NOTES:

- Depending on the kind of cable box, there may be cases where some or all functions cannot be operated using the remote control.
- It's not possible to set the remote control for both your cable box and your satellite receiver at the same time; you can only set the remote control to the brand of either one.
- You have to subscribe to a cable service to receive cable channels.

CABLE BOX BRAND NAME	BRAND CODE
CURTIS	08, 09
GEMINI	17
GENERAL INSTRUMENTS	10, 11, 12, 13, 14, 15, 16, 17
JERROLD	10, 11, 12, 13, 14, 15, 16, 17
PANASONIC	03, 04, 05
RCA	03, 04, 05
SAMSUNG	17, 18
SCIENTIFIC ATLANTA	08, 09
SL MARX	17, 18
SPRUCER	03, 04, 05
TELEVIEW	17, 18
TOCOM	01, 02
VIDEOWAY	06, 07
ZENITH	06, 07





Satellite Receiver Multi-Brand Remote Control

The VCR's remote control can control functions on the brands of satellite receivers listed below.

TURN ON THE SATELLITE RECEIVER

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

SET REMOTE CONTROL MODE

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

ENTER SATELLITE RECEIVER BRAND

While holding down **POWER** on the VCR's remote control, use the **NUMBER** keys to enter the satellite receiver brand number from the chart below and then press **STOP**.

Follow the example shown at bottom left.

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

OPERATE SATELLITE RECEIVER

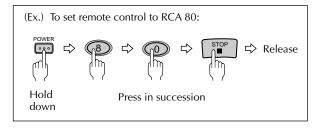
First, press **POWER** to see if the satellite receiver's power goes off as it should. If it does, try other functions (**CHA ▼** and the **NUMBER** keys can be used to operate the satellite receiver).

- For some brands of satellite receiver, 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:

- Depending on the kind of satellite receiver, there may be cases where some or all functions cannot be operated using the remote control.
- It's not possible to set the remote control for both your cable box and your satellite receiver at the same time; you can only set the remote control to the brand of either one.
- You have to subscribe to a satellite broadcaster to receive satellite channels.

SATELLITE BRAND NAME	BRAND CODE
RCA (DSS)	80
SONY (DSS)	81
PRIMESTAR	90



A. If the condition of the tape being played back is not good, jittering of the video (including on-screen

indicators) may occur.

RECORDING PLAYBACK Q. When I pause and then resume a recording, the end Q. What happens if the end of the tape is reached of the recording before the pause is overlapped by during playback or search? the new recording. Why does this happen? **A.** The tape is automatically rewound to the beginning. **A.** This is normal. It reduces distortion at the pause and resume points. Q. Can the VCR indefinitely remain in the still mode? **A.** No. It stops automatically after 5 minutes to protect Q. Can the VCR indefinitely remain in the Record-Pause the heads. A. No. The VCR automatically goes to its Stop mode Q. During search, slow, still and frame-by-frame after 5 minutes to protect the heads. When paused during Instant Timer Recording (ITR), the VCR shuts playback, I can't hear any audio. What's the problem? off automatically after 5 minutes. **A.** This is normal. Q. What happens if the tape runs out during recording? **A.** The VCR automatically rewinds it to the beginning. 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 TIMER RECORDING attempted with a tape recorded in LP mode. Pressing Q. REC and TIMER remain lit on the front display panel. **PLAY** to return to normal playback will restore the Is there a problem? picture. **A.** No. This is a normal condition for a timer recording in progress. Q. When returning from multi-speed search to normal playback, the picture is disturbed. Should I be Q. Can I program the timer while I'm watching a tape concerned about this? or a TV broadcast? **A.** No, it is normal. **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. 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. Q. Sometimes, during Index Search, the VCR can't find the program I want to see. Why not? A. There may be index codes too close together. Q. During playback, on-screen operational indicators sometimes jitter. Why does this happen?

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.

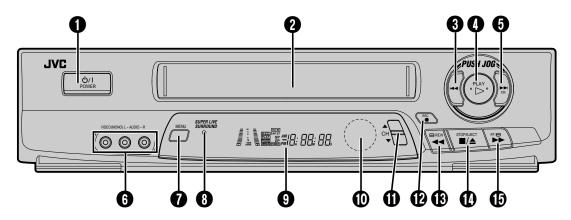
POWER					
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION			
1. The power won't come on.	• The power cord is disconnected.	Connect the power cord.			
The clock works, but the VCR's power won't come on.	• The TIMER mode is engaged with Auto Timer set to "OFF" (pg. 32).	Press TIMER to disengage.			
3. The remote control won't function.	 The batteries are discharged. The A/B CODE switch is in the wrong position. The TV/CABLE/VCR switch is in the wrong position. 	Replace the dead batteries with new ones. Re-perform the A/B Code setting (gr pg. 33). 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.	 The Counter Memory indicator ("M") is lit on the front display panel. 	Press C.MEMORY 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.	 If you're using the RF OUT connection (IF pg. 4), the channel selector on the TV is set incorrectly. If you're using the AV connection (IF pg. 4), the TV receiver is set to the wrong mode. 	Set the channel selector to channel 3 or 4. Set the TV receiver to its AV mode.			
2. Noise appears during visual search.	• This is normal.				
3. Breaks are noticeable in Hi-Fi soundtrack.	 Automatic tracking is engaged. 	Engage and adjust tracking manually			
		(□ pg. 14).			
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.			
interrupted, even though TV	 The video heads may be dirty. The AUDIO MONITOR option at the Function Set screen was set incorrectly. 	The heads must be cleaned. Consult			
interrupted, even though TV broadcasts are clear. 5. The Hi-Fi soundtrack cannot be	 The AUDIO MONITOR option at the Function Set screen was set 	The heads must be cleaned. Consult your JVC dealer. Set AUDIO MONITOR to "HI-FI"			
interrupted, even though TV broadcasts are clear. 5. The Hi-Fi soundtrack cannot be heard.	 The AUDIO MONITOR option at the Function Set screen was set 	The heads must be cleaned. Consult your JVC dealer. Set AUDIO MONITOR to "HI-FI"			

TV broadcasts won't record properly.	 The VCR has been set to its AUX mode by mistake. 	Set the VCR to the appropriate channel.	
3. Tape-to-tape editing won't work.	 The VCRs or the camcorder and the VCR have been incorrectly connected. The power to one or more of the units has not been turned on. The recorder's input mode has been set incorrectly. 	Refer to the directions and the illustration under "Edit To Or From Another VCR" (\$\mathbb{T}\$ pg. 33) or "Edit From A Camcorder" (\$\mathbb{T}\$ pg. 34) and properly connect the units. Make sure the power to all units is on. Set the recorder's input mode to AUX and select "FRONT" or "REAR" at the Aux Input Screen (\$\mathbb{T}\$ pg. 35).	
TIMER RECORDING			
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION	
Timer recording won't work.	 The clock and/or the timer have been set incorrectly. The timer is not engaged. The VCR has not been set up properly. 	Check or re-perform the clock/timer settings to ensure correctness. Press TIMER and check to make sure that TIMER appears on the front display panel. Re-perform the set-up procedures.	
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.	 The loaded cassette has had its record safety tab removed. 	Remove the cassette and cover its hole with adhesive tape, or replace it with a cassette on which the safety tab is intact.	
5. TIMER blinks for 10 seconds and the timer mode is disengaged.	 TIMER has been pressed when there are no programs in memory, or the timer record program information has not been programmed correctly. 	Check the programmed data and reprogram as necessary, then press TIMER again.	
6. The cassette is automatically ejected, the power shuts off and TIMER and ☑ won't stop blinking.	The end of tape was reached during timer recording.	The program may not have been recorded in its entirety. Next time make sure you have enough time on the tape to record the entire program.	
OTHER PROBLEMS			
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION	
When scanning channels, some of them are skipped over.	• Those channels have been preset to be skipped.	If you need the skipped channels, restore them (pg. 10).	
2. The channel can't be changed.	• Recording is in progress.	Press PAUSE to pause the recording, change channels, then press PLAY to resume recording.	
 The remote control won't operate my TV or cable box or satellite receiver. 	• The remote control brand setting is incorrect.	Re-set the remote control to the correct brand. (pg. 36 – 38)	
4. ":" is displayed on the front display panel after a power outage.	• The lithium battery is exhausted.	Replace the lithium battery with a new one. (F) pg. 5)	

ATTENTION:

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.

FRONT VIEW



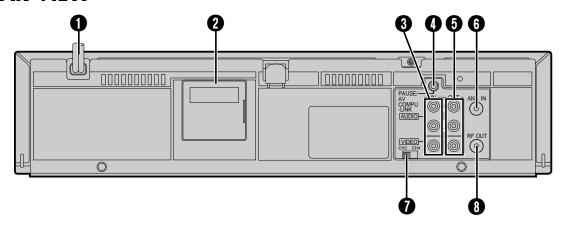
- ① POWER ७/I Button (☞ pg. 5)
- Cassette Loading Slot

- 3 PUSH JOG ► Button (☐ pg. 13) 4 PLAY Button (☐ pg. 11) 5 PUSH JOG ► Button (☐ pg. 13) OK Button (pg. 6)
 VIDEO/AUDIO Input Connector (pg. 34)
- MENU Button (□ pg. 6)

- 3 SUPER LIVE SURROUND indicator (☐ pg. 14)
- Front Display Panel (□ pg. 43)● Remote Control Sensor

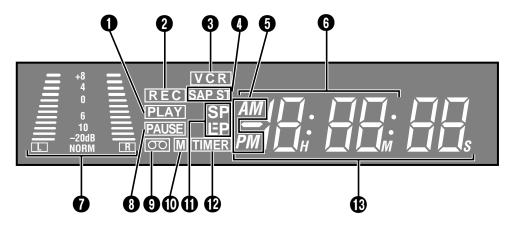
- (1) Channel ▲▼ Buttons (☞ pg. 6)
 (2) Record [REC] Button (☞ pg. 12)
 (3) Rewind [REW] Button (☞ pg. 11)
 (4) STOP/EJECT Button (☞ pg. 11)
 (5) Fast-Forward [FF] Button (☞ pg. 11)

REAR VIEW



- Power Cord (© pg. 4)
- 2 Lithium Battery Compartment (pg. 5) 3 VIDEO/AUDIO Input Connectors (pg. 33)
- **1** PAUSE/AV COMPU LINK Connector
 - Remote PAUSE Connector (☐ pg. 34)
 - AV COMPU LINK Connector (pg. 20)
- **5** VIDEO/AUDIO Output Connectors (pg. 4)
- 6 ANT. IN Connector (☐ pg. 4)
- 7 Channel 3/4 Switch (pg. 4)
- 8 RF OUT Connector (pg. 4)

FRONT DISPLAY PANEL



- **1** Play Mode Indicator (**□** pg. 11)
- 2 Recording Mode Indicator (☐ pg. 12)
- ③ VCR Mode Indicator (☐ pg. 25)
- Multichannel TV Sound Indicators (□ pg. 26)
- 5 AM/PM Indicators (□ pg. 7)
 6 Clock Display (□ pg. 7)
 7 Audio Level Meter

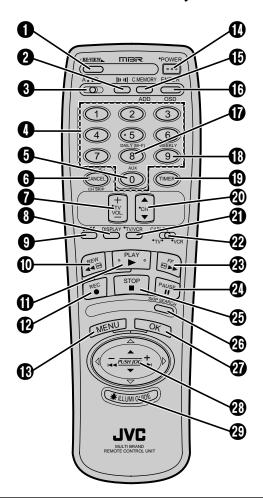
- 8 Pause Mode Indicator (☐ pg. 12)

- "Cassette Loaded" Mark

- ① Tape Speed Indicators (☐ pg. 12) ② Timer Mode Indicator (☐ pg. 29) ③ Channel Display ["AU" for AUX mode] (F pg. 33)

Counter Display (pg. 19)

REMOTE CONTROL (Provided)



Buttons with a small dot on the left side of the name can also be used to operate your TV: POWER, TV VOL. +/-, CH **▲▼**, **TV/VCR**. Use these buttons with the **TV/CABLE/VCR** switch set to "TV".

- **1** Instant REVIEW Button (□ pg. 19)
- 2 Super Live Surround Button (pg. 14)
- **3** A/B Code Select Switch (pg. 33)
- NUMBER Buttons (© pg. 12)
- **⑤** "AUX" Mode Select Button (☞ pg. 33)
- **⑥** CANCEL Button (□ pg. 30) Counter [C.] RESET (pg. 19)

Channel [CH.] SKIP Button (F) pg. 10)

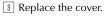
- **1** Volume [TV VOL.] +/− Buttons (pg. 36)
- **8** DISPLAY Button (□ pg. 19)
- Recording Speed [SP/EP] Button (□ pg. 12)
- Rewind [REW] Button (□ pg. 11)
- **1** PLAY Button (□ pg. 11)
- **®** Record [REC] Button (□ pg. 12)
- **13** MENU Button (□ pg. 6)
- **1** POWER ∪/I Button (□ pg. 5)
- **ⓑ** Counter [C.] MEMORY Button (☐ pg. 19) ADD Button (pg. 10)
- **⑥** ENTER Button (□ pg. 12)

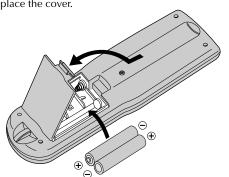
On-Screen Display [OSD] Button (pg. 17)

- **(D)** DAILY Timer Recording Button (127 pg. 29)
- (1) TIMER Button (127 pg. 29)
- **②** TV/VCR Button (□ pg. 25)
- 2 TV/CABLE/VCR Switch (pg. 36)
- 2 PAUSE Button (F pg. 12)
- **②** STOP Button (□ pg. 11)
- **②** SKIP SEARCH Button (□ pg. 18)
- **②** OK Button (□ pg. 6)
- 29 PUSH JOG Button (pg. 6)
- 29 ILLUMI GUIDE Button (pg. 28)

Installing Batteries

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





How To Use

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

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

NOTES:

- This remote control can also operate various brands of TVs, Cable Boxes and Satellite Receivers. For instructions, □ pg. 36 - 38.
- If the remote control doesn't work properly, remove its batteries, wait a short time, replace the batteries and then try again.

PECIFICATIONS

GENERAL

Power requirement : AC 110 – 220 V \sim , 50/60 Hz

Power consumption :21 W

Temperature

: 5°C to 40°C (41°F to 104°F) Operating : -20°C to 60°C (-4°F to 140°F) Storage

Operating position : Horizontal only Dimensions (W x H x D) : 400 x 94 x 276 mm

(15-3/4" x 3-3/4" x 10-7/8")

Weight : 3.6 kg (8.0 lbs) : VHS NTSC standard **Format**

Maximum recording time

SP : 210 min. with ST-210 video

cassette

: 630 min. with ST-210 video EP

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 : 45 dB

helical scan system

Signal-to-noise ratio Horizontal resolution

Frequency range

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

Input/Output : RCA connectors (IN x 2,

OUT x 1)

: 240 lines

TUNER

Tuning system : Frequency-synthesized tuner

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,

unbalanced

TIMER

Clock reference : Quartz

Memory backup : Lithium battery

: 1-year programmable timer/ Program capacity

8 programs

ACCESSORIES

Provided accessories : RF cable,

> Infrared remote control unit, Lithium battery CR2025, "AA" battery x 2, Conversion plug

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

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

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

**ABOUT HEAD CLEANING

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



МЕМО		

