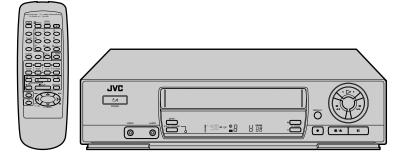
# JVC



# VIDEO CASSETTE RECORDER

# HR-J255EA



G-CODE VHS

*INSTRUCTIONS* 

EN

# **Safety Precautions**

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

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

### CAUTION

- When you are not using the recorder for a long period of time, it is recommended that you disconnect the power cord from the mains outlet.
- Dangerous voltage inside. Refer internal servicing to qualified service personnel. To prevent electric shock or fire hazard, remove the power cord from the mains outlet prior to connecting or disconnecting any signal lead or aerial.

#### 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.



- Only cassettes marked "VHS" can be used with this videorecorder.
- HQ VHS is compatible with existing VHS equipment.
   C copy is a paristered trademark of Comstar Development.
- G-CODE is a registered trademark of Gemstar Development Corporation. The G-CODE system is manufactured under license from Gemstar Development Corporation.

### IMPORTANT

- Please read the various precautions on this page before installing or operating the recorder.
- It should be noted that it may be unlawful to re-record pre-recorded tapes, records, or discs without the consent of the owner of copyright in the sound or video recording, broadcast or cable programme and in any literary, dramatic, musical, or artistic work embodied therein.

The POWER  $\oplus/I$  button does not completely shut off mains power from the unit, but switches operating current on and off. " $\oplus$  " shows electrical power standby and " I " shows ON.

Video tapes recorded with this video recorder in the LP (Long Play) mode cannot be played back on a single-speed video recorder.

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

#### 1. <u>DO NOT</u> place the recorder . . .

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

#### MOISTURE CONDENSATION

Moisture in the air will condense on the recorder when you move it from a cold place to a warm place, or under extremely humid conditions—just as water droplets form in 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 recorder turned on for a few hours to let the moisture dry.

#### ABOUT HEAD CLEANING

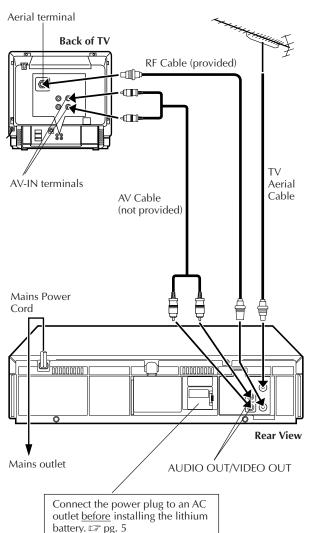
Accumulation of dirt and other particles on the video heads may cause the playback picture to become blurred or interrupted. Be sure to contact your nearest JVC dealer if such troubles occur.

#### Auto Head Cleaner

A built-in head cleaner automatically cleans the video heads and head drum whenever a tape is loaded or unloaded to reduce head clogging.

## INSTALLING YOUR NEW RECORDER

# Basic Connections



It's essential that your video recorder be properly connected. Follow these steps carefully. THESE STEPS MUST BE COM-PLETED BEFORE ANY VIDEO OPERATION CAN BE PER-FORMED.

### CHECK CONTENTS Make sure the package contains all of the accessories

listed in "Specifications" (IF pg. 38).

### SITUATE RECORDER

Place the recorder on a stable, horizontal surface.

# CONNECT RECORDER TO

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

#### **RF CONNECTION**

3

- To Connect To A TV With NO AV Input Terminals . . . a- Disconnect the TV aerial cable from the TV.
   b- Connect the TV aerial cable to the ANT. IN jack
  - on the rear panel of the recorder.
  - c- Connect the provided RF cable between the RF OUT jack on the rear panel of the recorder and the TV's aerial terminal.

#### AV CONNECTION

- To Connect To A TV With AV Input Terminals . . . – Connect the aerial, recorder and TV as per "RF CONNECTION".
  - **b** Connect an optional AV cable between the AUDIO OUT and VIDEO OUT connectors on the rear panel of the recorder and the TV's AV-IN terminals .

### CONNECT RECORDER TO MAINS

Plug the end of the mains power cord into a mains outlet.

### ATTENTION

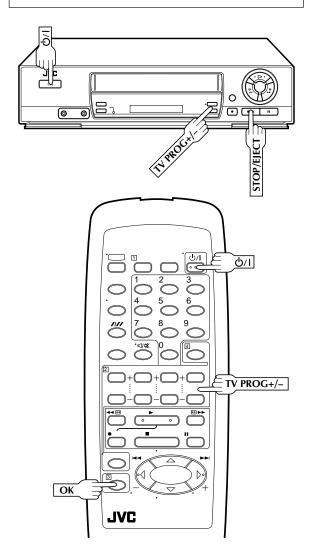
If you have finished all the necessary connections, go to "Video Channel Set" on page 4, then perform Auto Set Up on page 6; do NOT press the 0/1 button on the recorder/remote control to turn on the recorder's power before you start Auto Set Up.

### **INITIAL SETTINGS**

# Video Channel Set

 $4_{EN}$ 

Video Channel (RF Output Channel) is the channel on which your TV receives picture and sound signals from the video recorder through the RF cable.



#### TEST SIGNAL



The channel on which the screen to the left appear clearly in step **3** is your Video Channel.

To view picture signals from the video recorder, set your TV to the Video Channel.

If you have connected the video recorder to your TV via the provided RF cable only (RF connection) – Go to "With RF Connection" below.

If you have connected the video recorder to your TV via both the provided RF cable and an AV cable (AV connection) – Go to "With AV Connection" on next page.

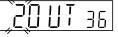
### With **RF** Connection

### **IMPORTANT:**

Before performing the following steps, make sure the recorder's power is off and there is no cassette inserted in the recorder.

### ACCESS VIDEO CHANNEL SET MODE

Hold down **STOP/EJECT** on the recorder until the display panel shows the following.



## SELECT TV SYSTEM

Press **TV PROG +** or – to set appropriate TV system that matches the system of TV being used (refer to the table below).

36
UT

1 : B/G	2	:	Н	
---------	---	---	---	--

Major Countries	TV System
New Zealand, Kuwait, U.A.E., Indonesia, Singapore, Thailand, Malaysia, Iran, Saudi Arabia, Egypt, Morocco, Lebanon, Iraq	B/G
Australia	Н



# SET VIDEO CHANNEL

Set your TV to UHF channel 36.

- If the two vertical white bars appear clearly on the screen as shown in the illustration (ICF "TEST SIGNAL" on page 4), press **OK** and then go to step **4**.
- If the two vertical white bars do not appear clearly, press **OK** and then **TV PROG +** or to set the video recorder to a vacant channel between 28 and 60 which is not occupied by any local station in your area.

(Ex.) If channel 50 is available in your area



Then set your TV to UHF channel 50 and check if the two vertical white bars appear clearly on the screen; if so, go to step **4**. If not, re-set the video recorder to another vacant channel and try again.

### **NOTES:**

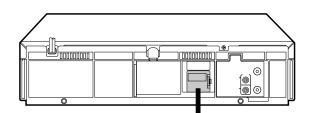
- If you set the video recorder to a channel which is occupied by a local station or has neighbouring channels that are occupied by local stations, the picture reception quality will be affected and some interference noise will appear on the TV screen. Be sure to select a vacant channel which has no broadcast on neighbouring channels.
- If you cannot obtain the two vertical white bars clearly with any channel between 28 and 60, consult your JVC dealer.

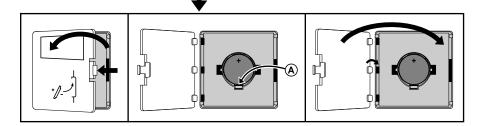
### EXIT VIDEO CHANNEL SET MODE



Press U/I to finish the setting.

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.

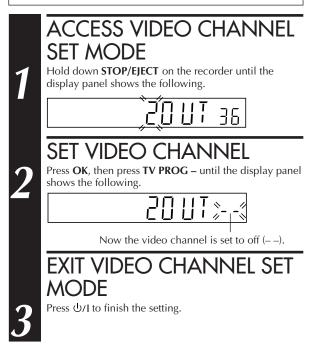




## With AV Connection

### **IMPORTANT:**

Before performing the following steps, make sure the recorder's power is off and there is no cassette inserted in the recorder.



To view picture signals from the video recorder, set your TV to its AV mode.

### 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 (A) downward using a pointed non-metallic object, then pull out the lithium battery.
- 4 Close the battery cover until it clicks in place.

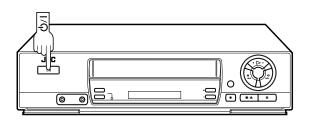
### INITIAL SETTINGS (cont.)

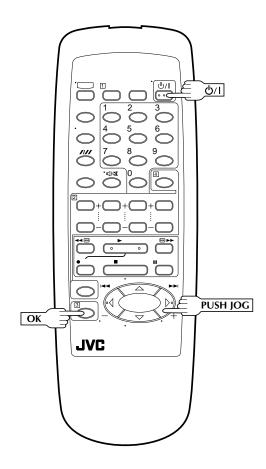
# Auto Set Up Auto Channel Set

Before starting, make sure of the following:

 $6_{EN}$ 

- The TV aerial cable should be connected to the recorder.
- The recorder's mains power cord should be connected to a mains outlet. IF pg. 3
- The "Video Channel Set" procedure should be done first and the TV should be set to its AV mode (with AV connection IP pg. 5) or video channel (with RF connection IP pg. 4).

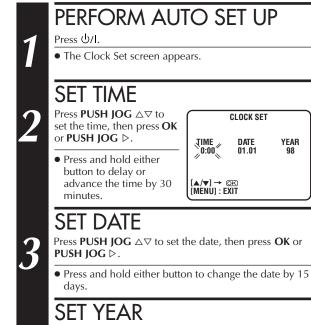




The Auto Set Up function simplifies installation by guiding you through the procedures of setting the language, clock and tuner channels — simply follow the on-screen menus that appear when the  $\oplus$ /I button is first pressed to power on the recorder after you plug the mains power cord into a mains outlet.

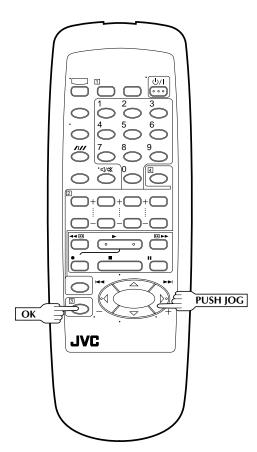
### IMPORTANT

- Don't press any buttons on the recorder or remote that are not directly related to the step you are performing while Auto Set Up is in progress.
- If you perform Auto Set Up successfully during installation, there's no need to separately perform the Clock Set or Channel Set procedures, but if adjustments become necessary they can be performed as follows:
  - To reset or adjust the time 🖙 pg. 8
  - To add/delete channels manually 🖙 pg. 29
  - To reset the tuner after moving to a different location  $\mathbb{CF}$  pg. 28



Press **PUSH JOG**  $\triangle \nabla$  to set the year, then press **MENU**.







• The Auto Set Up function scans all the channels that are receivable by your recorder. It then automatically assigns each receivable channels to the **TV PROG** buttons. It skips non-receivable channels.

• As Auto Set Up progresses, the "∎" mark on the screen moves from left to right. (See below.)

DO NOT press any button on the recorder or remote control while Auto Set Up is in progress.





TV Screen

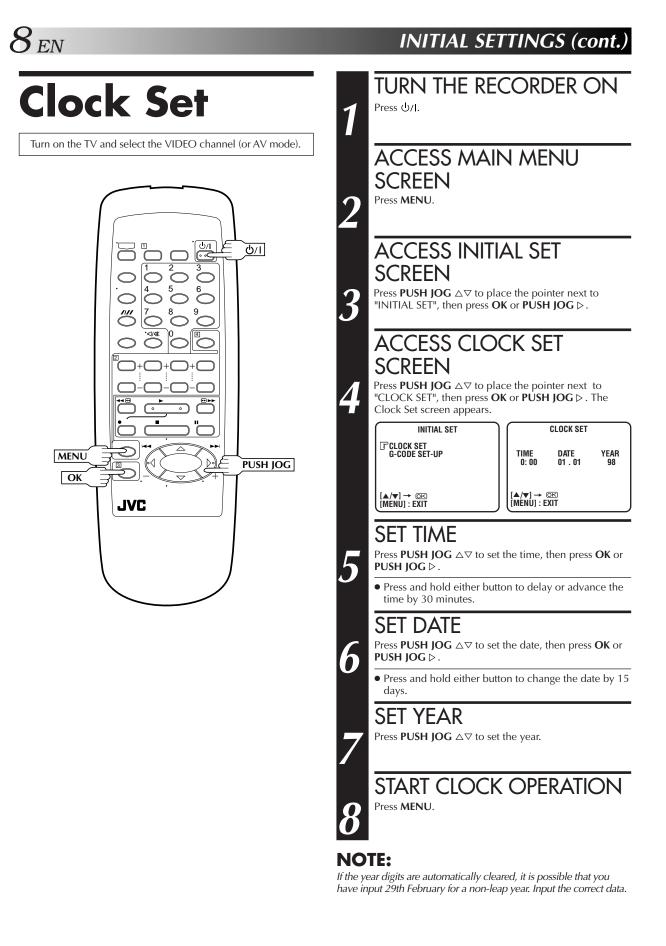
#### During Auto Set Up

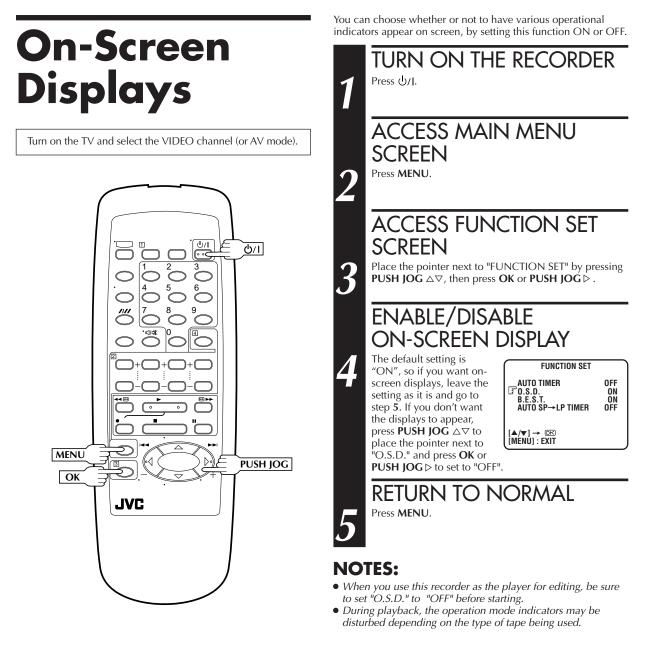
"PLEASE WAIT" blinks on the screen and "Auto" blinks on the front display panel.

When Auto Set Up is completed, the lowest position number will appear on the front display panel.

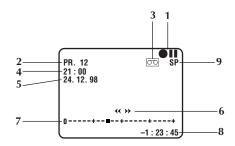
### **NOTES:**

- If you perform Auto Set Up when the aerial cable is not connected properly, "SCAN COMPLETED -NO SIGNAL-" appears on the screen. When this happens, make sure of the aerial connection and press **OK**; Auto Set Up will take place again.
- If there is a power cut, or if you press U/I or **MENU** while Auto Set Up is in progress, Auto Set Up will be interrupted; be sure to turn off the recorder power once and try again.
- If you want to set the tuner manually such as to add or skip channels, to swap channel positions, or to fine-tune channels, IF pg. 29–31.



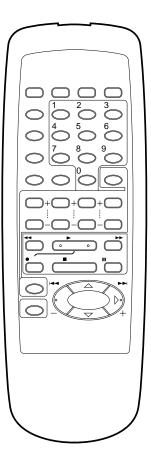


#### The superimposed indication on the TV screen tells you what the recorder is doing.



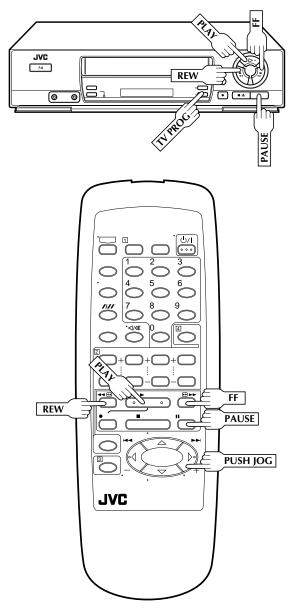
- 1- Operation mode indicators
- 2- Channel position number/Aux. indicator (F-1)
- 3- Cassette loaded mark
- 4– Clock display
- 5- Current day/month/year
- 6- Tape direction
- 7- Tape position indicator (EF pg. 13)
- 8- Counter display
- 9- Tape speed SP/LP/EP

# 10<sub>EN</sub>



EN 11

# Playback **Features**



### ATTENTION

In the search, still, slow-motion or frame-by-frame playback mode,

- the picture will be distorted.
- the noise bars will appear.
- there will be a loss of colour with an LP-recorded tape.

# Variable-Speed Search



During playback, press **PUSH JOG**  $\triangleleft$  or  $\triangleright$ .

- The more times you press, the faster the playback picture moves.
- To decrease speed, press the button for the opposite direction.

To resume normal playback, press PLAY.

### Still Picture/Frame-By-Frame Playback

# PAUSE DURING PLAYBACK

Press PAUSE. If there is vertical jitter, use the TV PROG buttons to correct the picture.

### ACTIVATE FRAME-BY-FRAME PLAYBACK

Press PAUSE.

OR

Press **PUSH JOG**  $\triangleleft$  or  $\triangleright$ .

To resume normal playback, press PLAY.

# Slow Motion



### ACTIVATE SLOW-MOTION PLAYBACK

During still picture, press and hold PAUSE for 2 seconds, then release. Press and release again to return to still picture.

### OR

During still picture, press and hold **PUSH JOG**  $\triangleleft$  or  $\triangleright$ . Release to return to still picture.

To resume normal playback, press PLAY.

# **High-Speed Search**



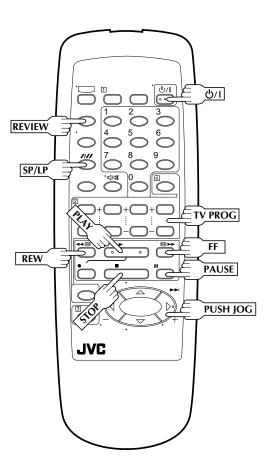
ACTIVATE HIGH-SPEED SEARCH

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

To resume normal playback, press PLAY.

### NOTE:

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



## **NTSC Playback**

Your video recorder is equipped with NTSC circuitry that can play back NTSC tapes.

### LOAD A CASSETTE Insert a cassette recorded in NTSC.

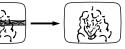
### START PLAYBACK

Press PLAY.

- Some TVs shrink the picture vertically and place black bars at the top and bottom of the screen. This is not a malfunction on the part of either the video recorder or the TV.
- The picture may roll up and down. This can be corrected using the V-HOLD control found on some TVs. (This cannot be corrected if the TV does not have a V-HOLD control.)
- The counter and tape remaining time readings will be incorrect.
- During search, still, or frame-by-frame playback, the picture will be distorted, and there may be a loss of colour.
- Depending on the type of TV, the top and bottom portions of superimposed displays may be cut off during NTSC playback.

# **Manual Tracking**

Your video recorder is equipped with automatic tracking control. During playback, you can override this and adjust the tracking manually by pressing the **TV PROG** buttons.



### OVERRIDE AUTOMATIC TRACKING

Press **///** (SP/LP) on the remote to engage manual tracking.

### ADJUST TRACKING MANUALLY

Press TV PROG + or - to adjust tracking.

### RETURN TO AUTOMATIC TRACKING



Press **//// (SP/LP)** on the remote to re-engage automatic tracking.

## NOTE:

When a new tape is inserted, the recorder enters the automatic tracking mode automatically.

# **Repeat Playback**

Your video recorder can automatically play back the whole tape 50 times repeatedly.



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

en 13

## Index Search

Your recorder automatically marks index codes at the beginning of each recording. This function gives you quick access to any one of 9 index codes in either direction.



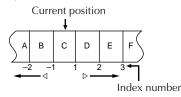
### NOTE:

Before starting, make sure the recorder is in the Stop mode.

## ACTIVATE INDEX SEARCH

Press **PUSH JOG**  $\triangleleft$  or  $\triangleright$  on the remote control. "I $\triangleleft$  1" or " $\blacktriangleright \triangleright$ I 1" is displayed on screen and search begins in the corresponding direction.

- To access index codes 2 through 9, press PUSH JOG
   ⊲ or ▷ repeatedly until the correct index number is displayed.
  - Ex.: To locate the beginning of B from the current position, press PUSH JOG ⊲ twice. To locate the beginning of D from the current position, press PUSH JOG ▷ once.



• When the specified index code is located, playback begins automatically.

### Instant ReView

Simply by pressing a single button, the recorder power comes on, rewinds, and begins playback of the last timer-recorded programme. If you have several programmes recorded, you can easily access any of them.

### NOTE:

Before starting, make sure that the recorder is off and that the Timer mode is disengaged.

### ACTIVATE INSTANT REVIEW

Press **REVIEW**. The recorder power comes on and the recorder searches for the index code indicating the start of the last timer-recorded programme. Once it's found, playback begins automatically.

• The front display panel tells you how many programmes have been recorded. If you have, for example, 3 programmes, "REVIEW" and "3" appear and blink. To watch the first of the 3 programmes, press **REVIEW** <u>three times</u>. The recorder searches and begins playback automatically. You can access a programme as far as 9 index codes away from the current tape position.

### NOTE:

Instant ReView is not possible while the recorder is in the Timer mode.

## **Next Function Memory**

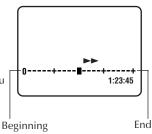
You can set your recorder's power to go off automatically after the tape is fully rewound. Before starting, make sure the recorder is in the Stop mode.

For Automatic Power Off After Tape Rewind . . .

... press REW, then press U/I within 2 seconds.

# **Tape Position Indicator**

The tape position indicator appears on screen when, from the Stop mode, you press **FF**, **REW** or perform an Index Search. The position of "■" in relation to "0" (beginning) or "+" (end) shows you where you are on the tape. "O.S.D." (III pg. 9) must be set to "ON", or the indicator will not appear.



### NOTE:

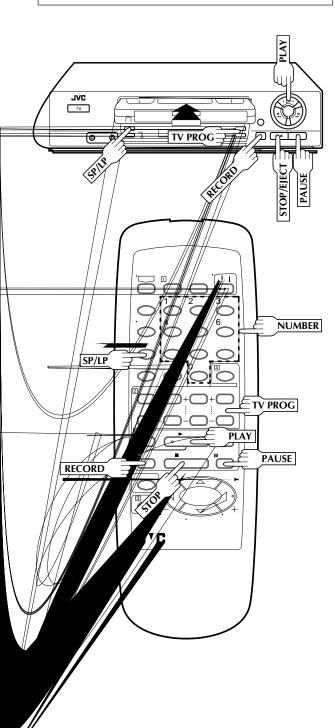
Depending on the type of tape used, there may be times when the indication is not correct.

### RECORDING

# Basic Recording

 $14_{EN}$ 

Turn on the TV and select the VIDEO channel (or AV mode).



TV signals being received by the recorder's built-in tuner can be recorded onto a video tape. You can "capture" a TV programme using your video recorder.

# LOAD A CASSETTE

Insert a cassette with the record safety tab intact.

• The counter is reset to 0:00:00 and the recorder power comes on automatically.

### CHOOSE A PROGRAMME

Press **TV PROG +/-** or the **NUMBER** keys to select the channel you wish to record.

## SET TAPE SPEED

Press **SP/LP** (**////**). Check the SP/LP indicator on the recorder display panel to confirm the selected tape speed.

### START RECORDING

Press and hold **RECORD** and **PLAY** on the remote control, or press **RECORD** on the recorder.

B.E.S.T. takes place at the beginning of both the first SP and the first LP recording after inserting the cassette (IIP pg. 16).

## PAUSE/RESUME RECORDING

5

Press PAUSE. Press PLAY to resume recording.

# STOP RECORDING

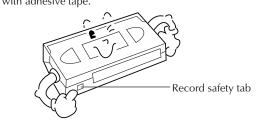
Press **STOP** on the remote control or **STOP/EJECT** on the recorder. Then press **STOP/EJECT** to remove the cassette.

### Recording Resume Function

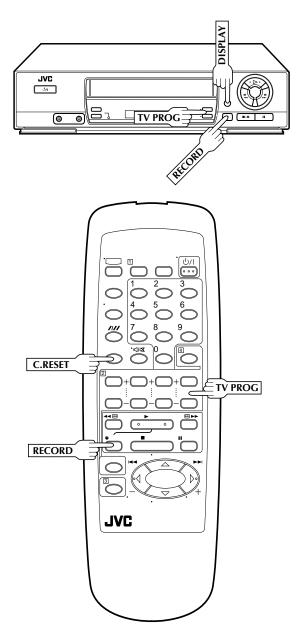
If there is a power outage during recording (or Instant Timer Recording or timer recording), the recording will resume automatically when power is restored to the recorder unless the recorder's memory backup has expired.

### Accidental erasure prevention

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



# Recording Features



### Record One Programme While Watching Another

### SELECT CHANNEL TO WATCH

Once recording is in progress, all you need to do is to set the channel controls on the TV for the station you wish to view.

• The programme selected with the TV's channel controls appears on the TV screen while the one selected with the **TV PROG** buttons is recorded on the tape.

### Elapsed Recording Time Indication

You can check the exact time of a recording.

# SET COUNTER DISPLAY

Press **DISPLAY** until a counter reading appears on the dispay panel.

### **RESET COUNTER**

Press C. RESET before starting recording or playback.

• The counter is reset to "0:00:00" and shows the exact elapsed time as the tape runs.

# 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 recorder off after recording is finished.

### START RECORDING

Press **RECORD** on the recorder.

### ENGAGE ITR MODE

Press **RECORD** again. "O" blinks and 0:30 appears on the front display panel.

### SET RECORDING DURATION



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

### NOTE:

You can only perform ITR using the **RECORD** button on the recorder's front panel.

# 16<sub>EN</sub>

### RECORDING (cont.)

# B.E.S.T. Picture System

Turn on the TV and select the VIDEO channel (or AV mode). PLAY JVC <u>8</u>4  $\cap$ **Γ** @ 0 RECORD **B.E.S.T. PICTURE Indicator** ட் 6 . . . PLAY PAUSE RECORD MENU 1 3 PUSH JOG OK JVC

The B.E.S.T. (Biconditional Equalised Signal Tracking) system 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 LOAD A CASSETTE Insert a cassette with the record safety tab intact. The recorder power comes on automatically. ACCESS MAIN MENU **SCREEN** Press MENU. 2 ACCESS FUNCTION SET **SCREEN** Place the pointer next to 3 MAIN MENU "FUNCTION SET" by **FUNCTION SET** pressing **PUSH JOG** $\triangle \nabla$ , TUNER SET then press OK or PUSH JOG ▷. $[\blacktriangle/ \bigtriangledown] \rightarrow \bigcirc \land$ [menu] : exit SELECT MODE Place the pointer next to FUNCTION SET Λ "B.E.S.T." by pressing AUTO TIMER 0.S.D. ♂B.E.S.T. Auto SP→LP Timer OFF **PUSH JOG** $\triangle \nabla$ , then press ÓŃ OK or PUSH JOG ▷ to set ON OFF to "ON" or "OFF". $[\blacktriangle/\bigtriangledown] \rightarrow \bigcirc$ [MENU] : EXIT **RETURN TO NORMAL SCREEN** Press MENU. You can also turn on/off the B.E.S.T. system by simply

Press B.E.S.T. PICTURE so that the B.E.S.T. PICTURE indicator lights up.

- The B.E.S.T. system is activated and the "B.E.S.T." setting at the Function Set screen will also be set to "ON".
- 2 To turn off the B.E.S.T. system, press the **B.E.S.T. PICTURE** button again so that the B.E.S.T. PICTURE indicator goes off.

• The "B.E.S.T." setting at the Function Set screen will also be set to "OFF".

# $_{EN} 17$

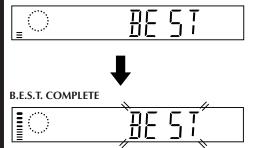
# Recording



### START RECORDING

Press and hold **RECORD** and press **PLAY** on the remote, or press **RECORD** on the recorder.

### DURING B.E.S.T.



• The recorder spends approximately 7 seconds assessing the condition of the tape, then begins recording.

### **NOTES:**

- The B.E.S.T. system works for both SP and LP modes only after a tape has been inserted and the Record mode is first initiated. It does not work during recording.
- In the case of timer recording, the B.E.S.T. system works before recording is initiated.
- Once the cassette is ejected, the B.E.S.T. data is cancelled. The next time the cassette is used for recording, B.E.S.T. is reperformed.
- Pressing the recorder's **RECORD** button while "BEST" is displayed does not start Instant Timer Recording (1) pg. 15).

### ATTENTION

Since the B.E.S.T. system works before recording actually starts, there is a delay of approximately 7 seconds after **RECORD** and **PLAY** on the remote are pressed, or **RECORD** on the recorder is pressed. To make sure you record the desired scene or programme in its entirety, first perform the following steps:

- 1) Press and hold **PAUSE** and press **RECORD** to engage the RECORD PAUSE mode.
  - The recorder then automatically checks the condition of the tape and, after approximately 7 seconds, reenters RECORD PAUSE.
- 2) Press PLAY to start recording.
  - If you want to bypass the B.E.S.T. system and begin recording immediately, set "B.E.S.T." to "OFF" in step **4** on page 16.

# Playback

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



appears blinking on the recorder's display panel.

### **NOTES:**

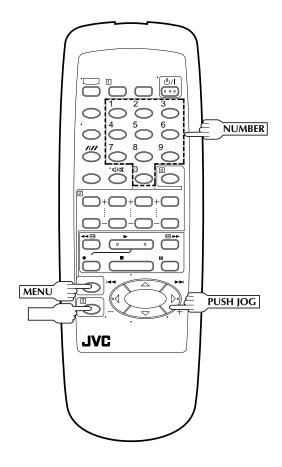
- When watching a tape recorded with "B.E.S.T." set to "ON", it is recommended that you leave B.E.S.T. on during playback as well.
- When watching a rental tape or one recorded on another video recorder, or when using this recorder as the player for editing, set B.E.S.T. to your preference by performing steps 1 through 5 on page 16.
- "BEST" only appears at the beginning of automatic tracking. Even though it doesn't appear after that, the B.E.S.T. function is operative.

# $18_{\scriptscriptstyle EN}$

## TIMER RECORDING

# G-code Setup

Turn on the TV and select the VIDEO channel (or AV mode).



The G-CODE 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 G-CODE number for the TV programme you wish to record (found in most TV listings) and the recorder's timer is automatically programmed.

You have to set "GUIDE PROG" numbers, which are assigned to each station for purposes of G-CODE timer programming, for all the stations stored in your recorder's memory to get proper results.

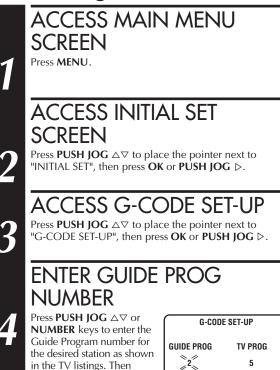
Before G-CODE setup you must have performed the following procedures:

- Tuner setting (🖙 pg. 6, 28)
- Clock setting (EF pg. 8)

### IMPORTANT

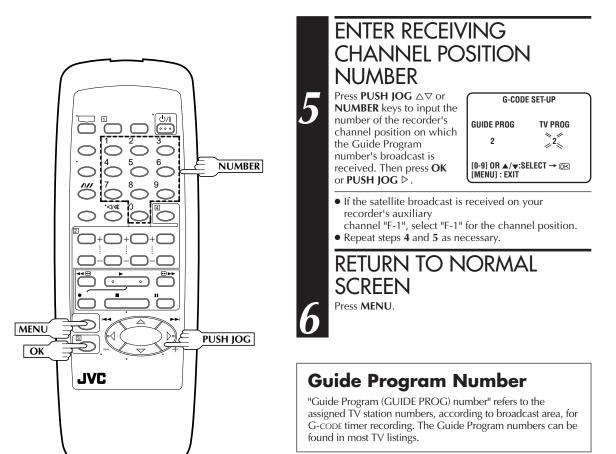
Perform the following procedure after Auto Set Up on page 6 and/or the channel setting steps on pages 28 – 31. After setting the Guide Program Numbers, channel positions may be incorrect if you stored or skipped channels. In this case, re-perform Guide Program Number setting.

### **Guide Program Number Set**



[0-9] OR ▲/▼:SELECT → ©® [MENU] : EXIT

press OK or PUSH JOG >.



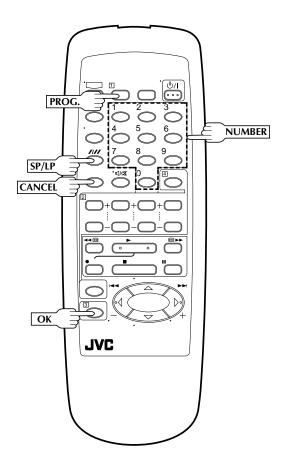
# $20_{\scriptscriptstyle EN}$

### TIMER RECORDING (cont.)

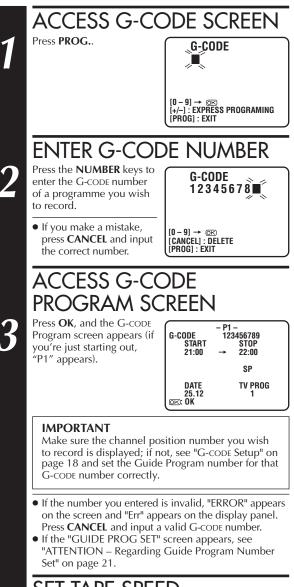
# G-CODE Timer Programming

#### Before performing G-CODE Timer Programming:

- Be sure to read "G-CODE Setup" (17 pg. 18).
- Insert a cassette with the safety tab in place. The recorder will come on automatically.
- Turn on the TV and select the VIDEO channel (or AV mode).



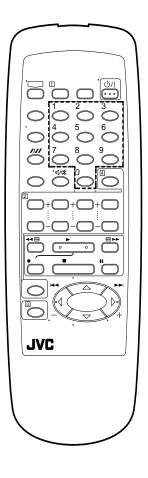
With G-CODE, timer programming is greatly simplified because each TV programme has a corresponding code number which your recorder is able to recognise.



### Set tape speed

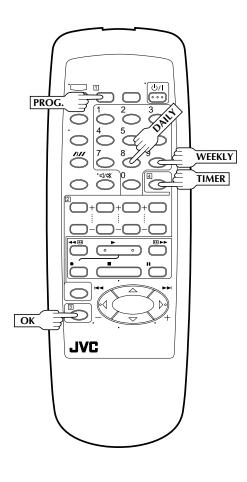
Press **SP/LP** (**////**) to set the tape speed.

# EN 21



# RETURN TO NORMAL SCREEN Press 5

#### $22_{\rm EN}$ TIMER RECORDING (cont.) **Express Timer** ACCESS G-CODE SCREEN Press PROG.. Programming ACCESS PROGRAMME SCREEN Remember, the clock must be set before you can Press START +/-. (If you're – P1 programme the timer (17 pg. 8). just starting out, "P1" START STOP appears.). SP Before performing the following steps: TV PROG DATE Insert a cassette with the safety tab in place. The recorder /-] → ©R will come on automatically. [PROG] : EXIT • Turn on the TV and select the VIDEO channel (or AV mode). ENTER PROGRAMME START TIME Press START +/- to enter 3 - P1 the time you want STOP START 21:00 recording to start. SP <u>ს/I</u> • Press and hold START 000 DATE TV PROG PROG +/- to move in 30minute increments, or [+/−] → ©≪ [PROG] : EXIT press and release repeatedly to move 1 minute at a time. SP/LP ENTER PROGRAMME STOP TIMF TV PROG+/-Press STOP +/- to enter the time you want recording to START+/stop. • Press and hold STOP +/- to move in 30-minute increments, or press and release repeatedly to move 1 minute at a time. ENTER PROGRAMME Press DATE +/-. (The current date appears on screen. 5 The date you enter appears in its place.) JVC ENTER CHANNEL POSITION Press TV PROG +/-. 6 START STOP 21:00 22:00 SP TV PROG DATE 25.12 [+/−] → ©K [PROG] : EXIT SET TAPE SPEED Press SP/LP (////) to set the tape speed.



### RETURN TO NORMAL SCREEN

After confirming all information is correct, press **PROG.** or **OK**. "PROGRAM COMPLETED" appears on the screen for about 5 seconds, then normal screen appears.

• Repeat steps 1–8 for each additional programme.

### ENGAGE RECORDER'S TIMER MODE



8

Press **TIMER**. The recorder turns off automatically and <sup>(2)</sup> appears on the display panel.

• To disengage the timer, press **TIMER** again.

#### To Timer-Record Weekly Or Daily Serials . . .

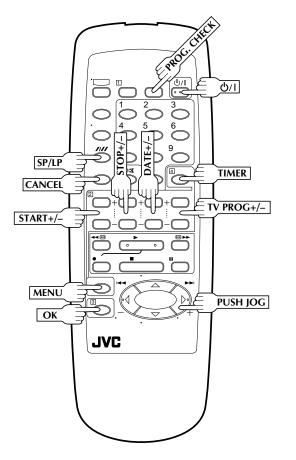
... anytime during steps 2 through 8, press WEEKLY (NUMBER key "9") for weekly serials or DAILY (NUMBER key "8") for daily serials (Monday–Friday). Either "WEEKLY" or "DAILY" appears on the screen. Pressing the button again makes the corresponding indication disappear.

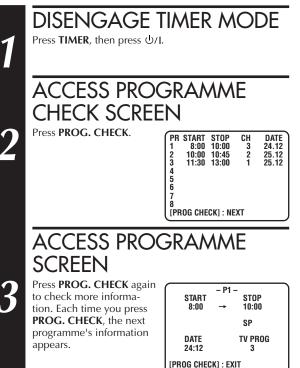
### NOTE:

You can programme this recorder to timer-record as many as 8 programmes. If you try to programme the recorder to record a ninth, "PROGRAM FULL" appears on screen. To record the extra programme, you must first cancel any unnecessary programmes (CF pg. 24).



### Check, Cancel And Replace Programmes





### To cancel or replace a programme...



Press CANCEL to cancel a programme. To replace a programme, press the appropriate button: START+/-, STOP+/-, DATE+/-, TV PROG+/-, SP/LP (////).

### RETURN TO NORMAL SCREEN

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

### RETURN TO TIMER MODE PressTIMER.



Λ

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### Auto SPightarrowLP Timer

If, when timer-recording in SP mode, there is not enough tape to record the entire programme, the recorder automatically switches to LP mode to allow complete recording.

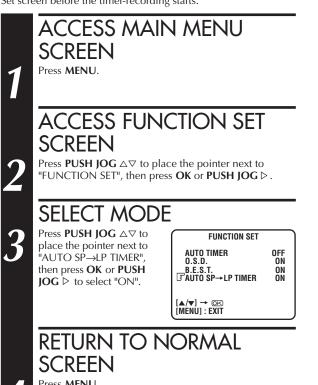
### For Example . . .

Recording a PAL-broadcast programme of 210 minutes in length onto a 180-minute tape

Approximately 150 minutes	Approximately 60 minutes
SP mode	LP mode

Total 210 minutes

Make sure you set "AUTO SP $\rightarrow$ LP TIMER" to "ON" at the Mode Set screen before the timer-recording starts.



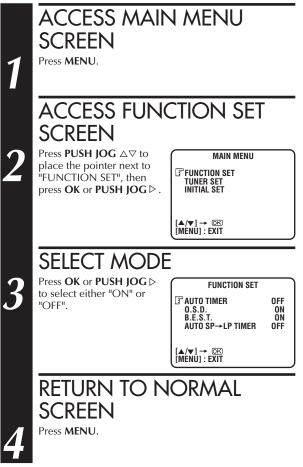
Press MENU.

### **NOTES:**

- If you have programmed the recorder to timer-record 2 or more programmes, the second programme and those thereafter may not fit on the tape if you set "AUTO SP→LP TIMER" to "ON". In this case, make sure the mode is not engaged, then set the tape speed manually during timer programming.
- In order to ensure that the recording fits on the tape, this feature may leave a slight non-recorded section at the end of the tape.
- There may be some noise and sound disturbance at the point on the tape where the recorder switches from SP to LP mode.
- The Auto SP→LP Timer feature is not available during ITR (Instant Timer Recording), and the feature will not work properly with any tapes longer than E-180 or with some tapes of shorter lengths.

# Auto Timer

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



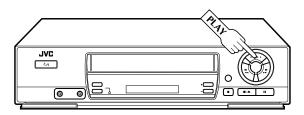
### NOTE:

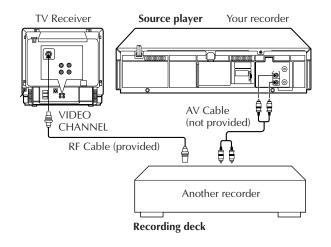
For safety, when Auto timer is set to "OFF", all other recorder functions are disabled while the Timer mode is engaged. To disengage the timer, press **TIMER**.

# $26_{\scriptscriptstyle EN}$

### EDITING

# Edit To Another Video Recorder





You can use your video recorder as the source player and another video recorder as the recording deck.

### MAKE CONNECTIONS

Connect the player's AUDIO/VIDEO OUT connectors to the recorder's AUDIO/VIDEO IN connectors.

### SET RECORDING DECK'S INPUT MODE

Set the recording deck's external input mode.

### START SOURCE PLAYER

Press **PLAY** on the source player.

### START RECORDING DECK

Engage its Record mode.

### **NOTES:**

2

3

- All necessary cables can be obtained from your dealer.
- If you do not want to record the superimposed indication on the editied tape, be sure to set "O.S.D." to "OFF" before you start editing (I pg. 9).

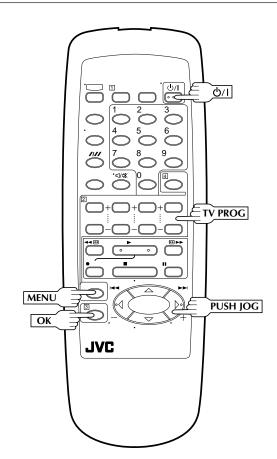


Camcorder

### TUNER SET

Turn on the TV and select the VIDEO channel (or AV mode).

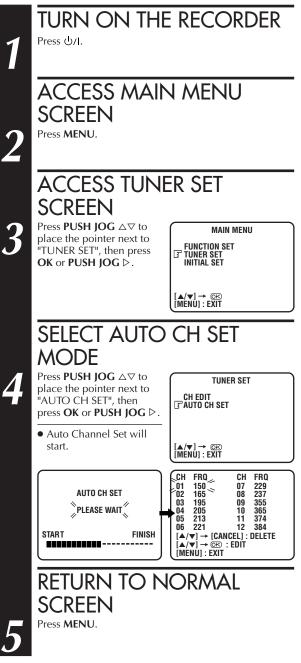
 $28_{\scriptscriptstyle EN}$ 



### **IMPORTANT**

Perform the following steps only if auto channel set has not been set correctly by Auto Set Up function (IFF pg. 6) or if you have moved to a different area or if a new station starts broadcasting in your area. Your recorder needs to memorise all necessary stations in channel positions in order to record TV programmes. Auto Channel Set automatically assigns all receivable stations in your area so that you can call them up with the **TV PROG** buttons without going through any vacant channels.

## Auto Channel Set



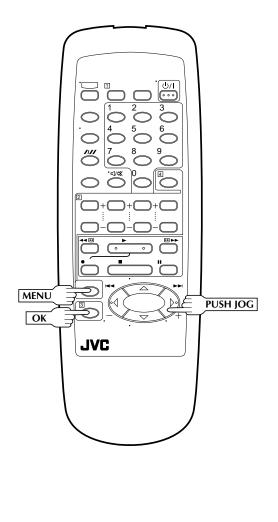
### IMPORTANT

Since your video recorder memorizes all detected stations even if the reception condition is poor, some of those stored stations may produce a noisy picture. To delete those stations, IP "Delete A Channel" on page 30.



### **Manual Channel Set**

Store channels that were not stored during Auto Set Up ( $\square p$  pg. 6) or Auto Channel Set ( $\square p$  pg. 28).



### ACCESS TUNER SET SCREEN

Perform steps 1 - 3 of "Auto Channel Set" on page 28.

# ACCESS CHANNEL LIST

Press **PUSH JOG**  $\triangle \nabla$  to place the pointer next to "CH EDIT", then press **OK** or **PUSH JOG**  $\triangleright$ .

### SELECT POSITION

Press **PUSH JOG**  $\triangle \nabla$  to place the pointer next to an open channel position, then press **OK** or **PUSH JOG**  $\triangleright$ .

# SELECT BAND

3

Λ

Press **PUSH JOG**  $\triangle \nabla$  to place the pointer next to the band of your choice, then press **OK** to initiate Manual Channel Set.

BAND SELECT  $\exists^2$  VHF L VHF H UHF  $[\blacktriangle/ \forall] \rightarrow \boxtimes (MENU] : EXIT$ MANUAL CH SET  $\downarrow^2$  PLEASE WAIT VHF L 00MHZ (MENU] : EXIT

### SET DESIRED STATION

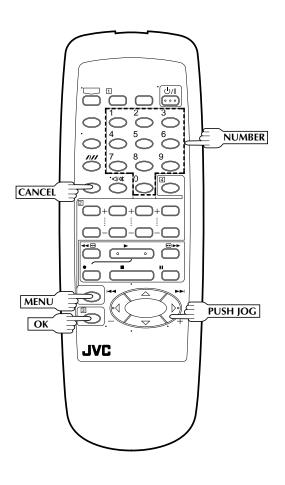
The screen to the right appears when a station is **STORE** detected. CONTINUE If you do not want to store the detected station ... Press **PUSH JOG** △▽ to  $[\blacktriangle/ \bigtriangledown] \rightarrow \bigcirc \land$ [menu] : exit place the pointer next to "CONTINUE", then press OK or PUSH JOG ▷. Channel search will resume. If you want to store the detected station ... Press **PUSH JOG**  $\triangle \nabla$  to place the pointer next to "STORE", then press **OK** or **PUSH JOG** ▷. The Channel List appears again. • The blueback screen and the TV picture currently being broadcast appear alternately for 8 seconds each. • If you want to store another channel, repeat steps 3-5. • When channel search completes for that band, the Band Select screen appears again. To set channels for other bands, select another band and start Manual Channel Set again (EF step 4 and 5).

• For fine tuning adjustment, see "Fine-Tuning Channels" on page 31.

RETURN TO NORMAL SCREEN Press MENU.

# $30_{EN}$

### TUNER SET (cont.)



## **Delete A Channel**



Perform steps 1 - 3 of "Auto Channel Set" on page 28.

### ACCESS CHANNEL LIST

Press **PUSH JOG**  $\triangle \nabla$  to place the pointer next to "CH EDIT", then press **OK** or **PUSH JOG**  $\triangleright$ .

### SELECT CHANNEL

Press **PUSH JOG**  $\triangle \nabla$  to until the channel you want to delete begins blinking.

<b>CH</b>	<b>FDO</b>	CH	FRO
	FRO	UN CH	
01	150	07	229
02	165	° 08	237
03	195	09	355
04	205	10	365
05	213	11	374
06	221	12	384
		[CANCEL] :	DELETE
		or: Edit	
[ME	NU] : E	XIT	

### DELETE CHANNEL

Press CANCEL.

1

2

3

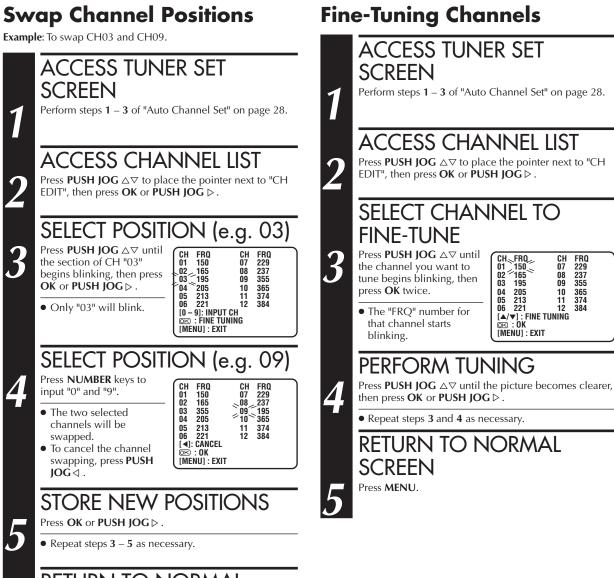
 $\wedge$ 

To re-store it, simply press ⊲.
Repeat steps 3 – 4 as necessary.

_	CH 01 02	FRQ	CH 07 08	FRQ 229 237
	03	195	ŏŏ	355
	04	205	10	365
	05	213	11	374
	06	221	12	384
		[▼] → [◀ ENU] : EX		

### RETURN TO NORMAL SCREEN Press MENU.

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6

 $32_{EN}$ 

### TROUBLESHOOTING

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 video recorder off for repair.

POWER		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
1. No power is applied to the recorder.	• The mains power cord is discon- nected.	Connect the mains power cord.
<ol> <li>The clock is functioning properly, but the recorder cannot be powered.</li> </ol>	● "@" is displayed on the display panel with Auto Timer set to "OFF".	Press the <b>TIMER</b> button to turn the "②" indicator off.
3. The remote control won't function.	• The batteries are discharged.	Replace the dead batteries with new ones.
TAPE TRANSPORT		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
1. The tape does not run during recording.	• """ is displayed on the display panel.	Press <b>PLAY</b> to turn the """ indicator off.
2. The tape will not rewind or fast- forward.	<ul> <li>The tape is already fully rewound or fast-forwarded.</li> </ul>	Check the cassette.
PLAYBACK		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
<ol> <li>The playback picture does not appear while the tape is running.</li> </ol>	<ul> <li>If you're using the RF OUT connection the TV receiver's channel selector is not set to the VIDEO channel the recorder's VIDEO channel has not been correctly set.</li> <li>If you're using the AV connection, the TV receiver is not set to the AV mode.</li> </ul>	If you are using the RF OUT connec- tion set the TV receiver to the VIDEO channel. (IIP pg. 4) Perform "Video Channel Set" (IIP pg. 4) If you are using the AV connection, set the TV to its AV mode.
2. Noise appears during visual search.	• This is normal.	
3. Noise appears during normal playback.	• The automatic tracking mode is engaged.	Try manual tracking. (🖙 pg. 12)
<ol> <li>Noise appears during slow-motion playback.</li> </ol>	• The automatic tracking mode is engaged.	Try manual tracking. (🖙 pg. 12)
5. Noise appears during still playback.		Press <b>TV PROG +</b> or – a few times to remove the noise bars from the screen.
6. The playback picture is blurred or interrupted while TV broadcasts are clear.	• The video heads may be dirty.	Consult your JVC dealer.
RECORDING		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
1. Recording cannot be started.	<ul> <li>There is no cassette loaded, or the cassette loaded has had its Record Safety tab removed.</li> </ul>	Insert a cassette, or using adhesive tape, reseal the slot where the tab was removed.
2. TV broadcasts cannot be recorded.	• "F-1" has been selected as the input mode.	Set to the desired channel.
3. Tape-to-tape editing is not possible.	<ul> <li>The source (another video recorder, camcorder) has not been properly connected.</li> <li>All necessary power switches have not been turned on.</li> <li>The input mode is not correct.</li> </ul>	Confirm that the source is properly connected. Confirm that all units' power switches are turned on. Set the input mode to "F-1".
<ol> <li>Camcorder recording is not possible.</li> </ol>	<ul> <li>The camcorder has not been properly connected.</li> <li>The input mode is not correct.</li> </ul>	Confirm that the camcorder is properly connected. Set the input mode to "F-1".

# EN 33

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> </ul>	Re-perform the clock and/or timer settings. Press <b>TIMER</b> and confirm that "O" is displayed on the display panel.
2. On-screen timer programming is not possible.	• Timer recording is in progress.	Timer programming can't be performed while a timer recording is in progress. Wait until it finishes.
3. "O" and "O" on the 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 cover the hole using adhesive tape.
<ol> <li>The cassette is automatically ejected, and "O" and "OO" on the display panel won't stop blinking.</li> </ol>	• The loaded cassette has had its Record Safety tab removed.	Remove the cassette and cover the hole with adhesive tape, or insert a cassette with the Record Safety tab intact.
<ol> <li>"O" blinks for 10 seconds and the Timer mode is disengaged.</li> </ol>	• TIMER has been pressed when there are no programs in memory, or the timer record information has been programmed incorrectly.	Check the programmed data and re- program as necessary, then press <b>TIMER</b> again.
<ul> <li>6. The cassette is automatically ejected, the power shuts off and "②" and "②" won't stop blinking.</li> </ul>	<ul> <li>The end of the tape was reached during timer recording.</li> </ul>	The programme may not have been recorded in its entirety. Next time make sure you have enough time on the tape to record the entire programme.
7. G-CODE does not timer-record properly.	• The recorder's channel positions have been set incorrectly.	Refer to "G-CODE Setup" and re- perform the procedure (IIF pg. 18).
OTHER PROBLEMS		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
<ol> <li>Whistling or howling is heard from the TV during camcorder record- ing.</li> </ol>	<ul> <li>The camcorder's microphone is too close to the TV.</li> <li>The TV's volume is too high.</li> </ul>	Position the camcorder so its microphone is away from the TV. Turn the TV's volume down.
2. When scanning channels, some of them are skipped over.	<ul> <li>Those channels have been desig- nated to be skipped.</li> </ul>	If you need the skipped channels, restore them (IF pg. 29).
3. The channel cannot be changed.	• Recording is in progress.	Press <b>PAUSE</b> to pause the recording, change channels, then press <b>PLAY</b> to resume recording.
<ol> <li>Channel settings that were made manually seem to have changed or disappeared.</li> </ol>	• After the manual settings were made, Auto Channel Set was performed.	Perform manual setting again.
5. No channels are stored in the recorder's memory.	<ul> <li>The TV aerial cable was not connected to the recorder when Auto Set Up was performed.</li> </ul>	Connect the TV aerial cable to the recorder properly and turn off the recorder power once, then turn the recorder power back on again. The recorder will try Auto Set Up again (IFF pg. 6).
6. ":" is displayed on the front display panel after a power outage.	• The lithium battery is exhausted.	Replace the lithium battery with a new one. (🖙 pg. 5)

# EN

### **QUESTIONS AND ANSWEI**

### PLAYBACK

<ul><li>Q. What happens if the end of the tape is reached during playback or search?</li><li>A. The tape is automatically rewound to the beginning.</li></ul>	Q. When I pause and then resume a recording, the end of the recording before the pause is overlapped by the beginning of the continuation of recording. Why does this happen?
<ul><li>Q. Can the video recorder indefinitely remain in the still mode?</li><li>A. No. It stops automatically after 5 minutes to protect</li></ul>	A. This is normal. It reduces distortion at the pause and resume points.
the heads. Q. During search, slow, still and frame-by-frame playback, I can't hear any audio. What's the	<ul><li>Q. Can the video recorder indefinitely remain in the Record-Pause mode?</li><li>A. No. The video recorder goes to its Stop mode automatically after 5 minutes to protect the heads.</li></ul>
<ul><li>problem?</li><li>A. This is normal.</li></ul>	Q. What happens if the tape runs out during recording?
Q. When returning from multi-speed search to normal playback, the picture is disturbed. Should I be concerned about this?	<ul> <li>A. The video recorder automatically rewinds it to the beginning.</li> <li>TIMER RECORDING</li> </ul>
<ul> <li>A. No, it is normal.</li> <li>Q. Noise bars appear during multi-speed search. What's the problem?</li> <li>A. This is normal.</li> </ul>	<ul> <li>Q. "\" and "\" remain lit on the display panel. Is there a problem?</li> <li>A. No. This is a normal condition for a timer recording in progress.</li> </ul>
<ul> <li>Q. Other than preventing further recording, what effect does removing the Record Safety tab have?</li> <li>A. It disables marking of index codes.</li> </ul>	<ul><li>Q. Can I program the timer while I'm watching a tape or a TV broadcast?</li><li>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 can be heard.</li></ul>
<ul><li>Q. Sometimes, during Index Search, the video recorder can't find the programme I want to see. Why not?</li><li>A. There may be index codes too close together.</li></ul>	<ul> <li>Q. Is it possible to timer-record a TV programme broadcast in 2000?</li> <li>A. Yes, it is possible.</li> </ul>

### RECORDING I pause and then resume a recording, the end recording before the pause is overlapped by ginning of the continuation of recording. Why his happen? normal. It reduces distortion at the pause and e points. e video recorder indefinitely remain in the d-Pause mode? e video recorder goes to its Stop mode autoally after 5 minutes to protect the heads. happens if the tape runs out during recording? deo recorder automatically rewinds it to the ning. CORDING d "②" remain lit on the display panel. Is there

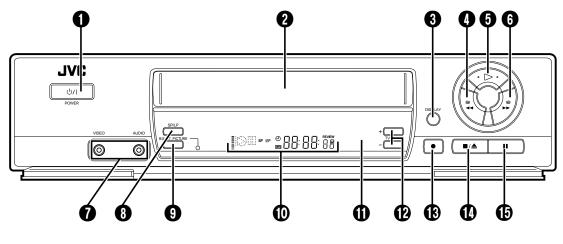
### cast in 2000? is possible.

. . . . . . . . . .

#### **ATTENTION:**

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

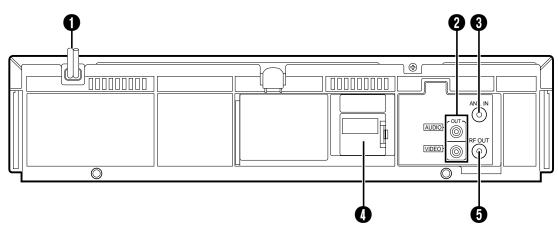
## **FRONT VIEW**



- POWER U/I Button 🖙 pg. 5
- 2 Cassette Loading Slot
- 3 DISPLAY Button 🖙 pg. 15
- Rewind [REW] Button 🖙 pg. 10, 11
- 6 PLAY Button IF pg. 10
  6 Fast Forward [FF] Button IF pg. 10, 11
- VIDEO/AUDIO Input Connectors 🖙 pg. 27
- B SP/LP Button ☞ pg. 14

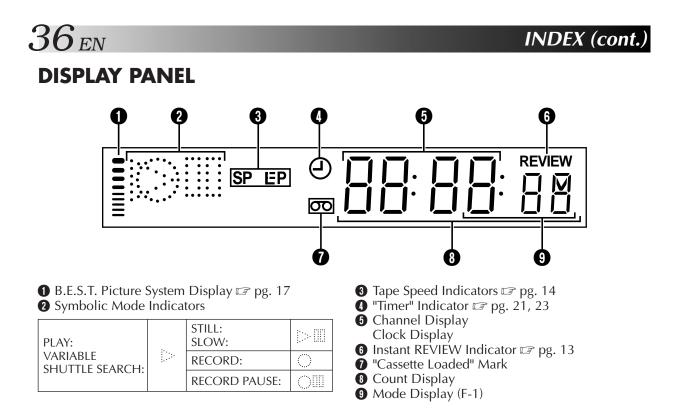
- In B.E.S.T. Picture Button ☞ pg. 16
- B.E.S.T. Picture Indicator 🖙 pg. 16
- Display Panel 🖙 pg. 36
- **(1)** Infrared Beam Receiving Window
- B RECORD Button ☞ pg. 14 STOP/EJECT Button 🖅 pg. 10
- Department PAUSE Button 🖙 pg. 11

### **REAR VIEW**



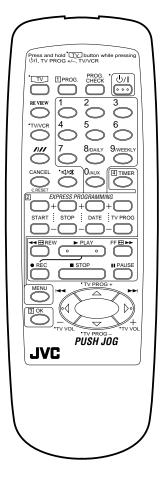
● Mains Power Cord 🖙 pg. 3 2 AUDIO/VIDEO OUT Connectors 
 pg. 3, 26 3 ANT. IN Connector ☞ pg. 3

■ Lithium Battery Compartment 
 pg. 5 I B RF OUT Connector ☞ pg. 3





### **REMOTE CONTROL**



Buttons with a small dot on the left side of the name can also be used to operate your JVC TV while holding down the  $\mathbf{TV}$  button.

This remote control transmits A code signals only; it is not applicable to B code signals.

### How To Use

The remote control can operate most of your video recorder's functions, as well as basic functions of JVC TV sets. (See below.) • Point the remote control toward the sensor window.

The maximum operating distance of the remote control is about 8 m.

### **Operating JVC TVs**

To operate your TV, while holding down TV, press the corresponding button: POWER 心儿, TV/VCR, TV PROG +/-, TV VOL +/-, 式/试 (TV Muting).

- PROG. Button (☞ pg. 20)
- **2** TV Button (See below)
- 3 REVIEW Button (🖙 pg. 13)
- TV/VCR Button (See below)
- 6 Recording Speed [SP/LP/EP] Button (☞ pg. 14)
- **ⓑ ◁/**✿ (TV Muting) Button (See below)
- CANCEL Button (IF pg. 20) Counter [C.] RESET Button (IF pg. 15)
- **8** START  $\pm/-$  Button ( $\square$  pg. 22)
- **9** STOP +/- Button ( $\square$  pg. 22)
- Rewind [REW] Button ( g pg. 10)
- Delay Button ( pg. 10)
- Record [REC] Button (CF pg. 14)
- (B) MENU Button (C) pg. 8)
- OK Button (🖙 pg. 4)
- BROG. CHECK Button (I pg. 20)
- B POWER U/I Button (☞ pg. 5)
- 1 NUMBER Buttons (C pg. 14)
- B DAILY Timer Recording Button (□ pg. 21)
- B WEEKLY Timer Recording Button ( pg. 21)
- **1** TIMER Button (**F** pg. 21, 23)
- 2 TV PROG +/– Button (🖙 pg. 14, 22)
- B DATE +/− Button (□ pg. 22)
- Sast-Foward [FF] Button (CF pg. 10)
- PAUSE Button (
  pg. 11)
- ⑦ PUSH JOG △▽ Button (☞ pg. 6) TV PROG +/- Button (See below)
- **2** PUSH JOG ►►► (<>>) Button (C3 pg. 11, 13)
  - TV Volume [VOL] +/– Button (See below)

### **NOTES:**

- When inserting the batteries, be sure to insert in the correct directions as indicated under the battery cover.
- Depending on the type of JVC TV, there may be cases where some or all functions cannot be operated using the remote control.
- If the remote control doesn't work properly, remove its batteries, wait a short time, replace the batteries and then try again.

# $38_{\scriptscriptstyle EN}$

### **SPECIFICATION**

Power requirement	: AC 220 – 240 V∼, 50/60 Hz
Power consumption	: 18W
Temperature	
Operating	: 5°C to 40°C
Storage	: -20°C to 60°C
Operating position	: Horizontal only
Dimensions (WxHxD)	: 400 x 94 x 277 mm
Weight	: 3.4 kg
Format	: VHS standard
Maximum recording tim	e
(SP)	: 240 min. with E-240 video
	cassette
(LP)	: 480 min. with E-240 video
	cassette
VIDEO/AUDIO	
Signal system	: PAL-type colour signal and
0 /	CCIR monochrome
	signal,625 lines 50
Recording system	: Rotary two-head helical scan
0 /	system
Signal-to-noise ratio	: 45 dB
Horizontal resolution	: 250 lines
Frequency range	: 70 Hz to 10,000 Hz
Input/Output	: RCA connectors

### **TUNER/TIMER**

TV channel storage	
capacity	: 99 positions
	(+AUX position)
Tuning system	: Frequency synthesized tuner
Channel coverage	: VHF (Low) 42 – 175 MHz
	(High)175 – 470 MHz
	UHF 470 – 870 MHz
Aerial output	: UHF channels (Adjustable
	28 - 60)
Memory backup time	: Approx. 6 months
<i>,</i> .	Estimated figure based on
	supplied fresh battery; actual
	performance may differ.
ACCESSORIES	

### ACCESSORIES

Provided accessories	: RF cable, Infrared remote control unit, "R6/UM-3" battery x 2, Lithium battery CR2025

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

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