# JVC



**CONTENTS** 

### **ENGLISH**

### **VIDEO CASSETTE RECORDER**

# HR-DD857MS





**OTIME SCAN** 

G-code ShowView Hill VHS



**INSTRUCTIONS** 

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 $2_{\scriptscriptstyle EN}$  Safety first

# **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.
- Use the conversion plug (not provided in certain areas) depending on the type of your AC wall outlet.

#### **ATTENTION**

- 1. This recorder can also receive SECAM colour television signals for recording and playback.
- Recordings made of SECAM television signals produce monochrome pictures if played back on another video recorder of SECAM standard, or do not produce normal colour pictures if played back on another video recorder of PAL standard.
- 3.SECAM prerecorded cassettes or recordings made with a SECAM video recorder produce monochrome pictures when played back with this recorder.

#### **POWER SYSTEM**

This set operates on voltage of AC110 – 240 V  $\sim$  (Rating), AC90 – 260 V  $\sim$  (Operating), 50/60 Hz with automatic switching.

#### 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.

### VHS G-CODE SHOW VIEW

- Only cassettes marked "VHS" can be used with this videorecorder.
- HQ VHS is compatible with existing VHS equipment.
- G-CODE and SHOWVIEW are trademarks of Gemstar Development Corporation.
- The G-CODE/SHOWVIEW system is manufactured under license from Gemstar Development Corporation.
- Certain audio features of this product manufactured under a license from Desper Products, Inc. Spatializer® is a trademark owned by Desper Products, Inc.

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

Video tapes recorded with this video recorder in the LP (Long Play) or EP (Extended 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. **DO NOT** 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. <u>DO NOT</u> 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.

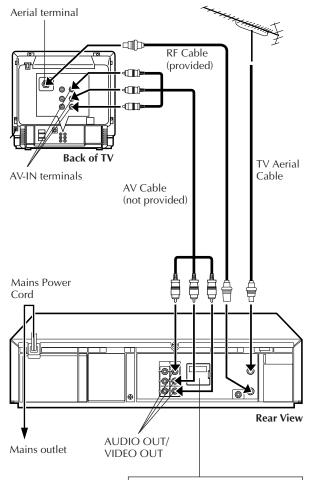
#### **ABOUT HEAD CLEANING**

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.

### Basic Connections



Connect the power plug to an AC outlet <u>before</u> installing the lithium battery. **F** pg. 5

It's essential that your video recorder be properly connected. Follow these steps carefully. THESE STEPS MUST BE COMPLETED BEFORE ANY VIDEO OPERATION CAN BE PERFORMED.

### CHECK CONTENTS

Make sure the package contains all of the accessories listed in "Specifications" ( pg. 53).

#### 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**

- 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 . . .
  - a– 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.

#### **NOTE:**

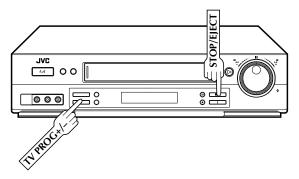
Use the conversion plug (not provided in certain areas) depending on the type of your AC wall outlet.

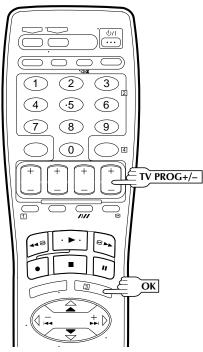
#### **ATTENTION**

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  $\mbox{$0$}\mbox{$1$}$  button on the recorder/remote control to turn on the recorder's power before you start Auto Set Up.

# Video Channel Set

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.







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.

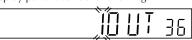
#### With RF Connection

#### **IMPORTANT:**

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

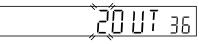
### ACCESS VIDEO CHANNEL SET MODE

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).



1:B/G 2:D/K 3:I 4:H 5:M

Major Countries	TV System
New Zealand, Kuwait, U.A.E, Indonesia, Singapore, Thailand, Malaysia, Iran, Saudi Arabia, Egypt, Morocco, Lebanon, Iraq	B/G
China, Mongolia, Russia	D/K
Hong Kong	I
Australia	Н
U.S.A., Japan, S.Korea, Taiwan	М

#### 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 ( "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.

### FINISH VIDEO CHANNEL SET

Press **OK**.

If Auto Set Up ( pg. 6) or Tuner Set ( pg. 42) has not previously been performed, the Language Select screen appears and Auto Set Up function takes place automatically.

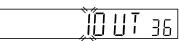
#### With AV Connection

#### **IMPORTANT:**

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

# ACCESS VIDEO CHANNEL SET MODE

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



#### SET VIDEO CHANNEL

Press **OK**, then press **TV PROG** – until the display panel shows the following.



Now the video channel is set to off (- -).

# FINISH VIDEO CHANNEL SET

3

Press **OK**.

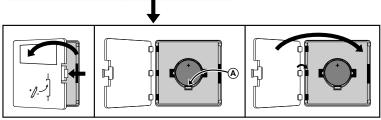
If Auto Set Up ( pg. 6) or Tuner Set ( pg. 42) has not previously been performed, the Language Select screen appears and Auto Set Up function takes place automatically.

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

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.
- 2 Open the battery cover while pressing the release tab as illustrated.
- 3 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.



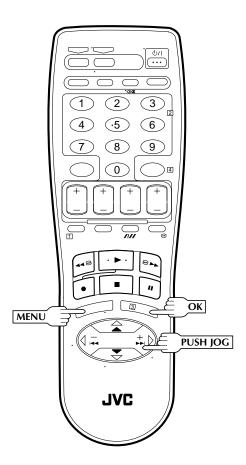
# **Auto Set Up**

#### **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 Language Select, Clock Set or Channel Set procedures, but if adjustments become necessary they can be performed as follows:
  - To change the selected language 🖙 pg. 9
  - To reset or adjust the time 
     □ pg. 10

  - To reset the tuner after moving to a different location

     □ pg. 42



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.

Before starting, make sure of the following:

- The TV aerial cable should be connected to the recorder.
- The recorder's mains power cord should be connected to a mains outlet. 🖙 pg. 3
- The "Video Channel Set" procedure should be done first and the TV should be set to its AV mode (with AV connection \$\mathbb{T}\$ pg. 5) or video channel (with RF connection \$\mathbb{T}\$ pg. 4).

#### SELECT LANGUAGE

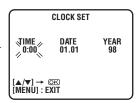
Press **PUSH JOG** △∇ to place the pointer next to your desired language (English or Chinese), then press **OK** or **PUSH JOG** ▷.

The Clock Set screen appears.

#### SET TIME

Press **PUSH JOG**  $\triangle \nabla$  to set the time, then press **OK** or **PUSH JOG**  $\triangleright$  .

 Press and hold either button to delay or advance the time by 30 minutes.



#### SET DATE

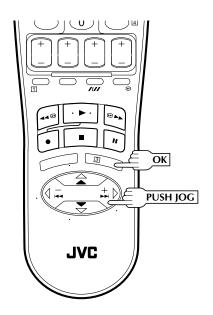
Press **PUSH JOG**  $\triangle \nabla$  to set the date, then press **OK** or **PUSH JOG**  $\triangleright$  .

Press and hold either button to change the date by 15 days.

#### **SET YEAR**

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

Major Countries	TV System
Australia, New Zealand, Kuwait, U.A.E, Indonesia, Singapore, Thailand, Malaysia, Iran, Saudi Arabia, Egypt, Morocco, Lebanon, Iraq	B/G
China, Mongolia, Russia	D/K
Hong Kong	I
U.S.A., Japan, S.Korea, Taiwan	М



#### SELECT TV SYSTEM

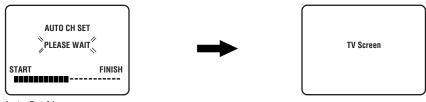
Press **PUSH JOG**  $\triangle \nabla$  to place the pointer next to the appropriate TV system (refer to the table on the left).

### START AUTO CHANNEL SET

Press **OK** or **PUSH JOG** ▷.

- 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.



**During Auto Set Up**"PLEASE WAIT" blinks on the scre

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

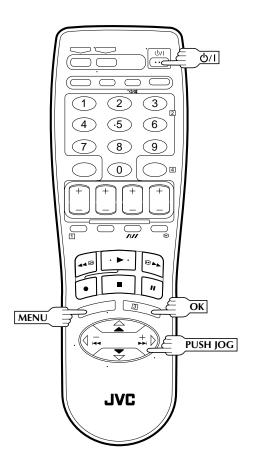
When Auto Set Up is completed, the lowest position number will appear on the front display panel.

#### **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 0/l 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,  $rac{1}{2}$  pg. 43 45.
- If no sound accompanies the picture on some channels that have been stored by Auto Set Up, the TV system setting for those channels may be incorrect. Select the appropriate TV system for those channels. \*\* "TV System Selection When you see the picture but hear no audio" on page 45.

# **On-Screen Displays**

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



You can choose whether or not to have various operational indicators appear on screen, by setting this function ON or OFF.

#### TURN ON THE RECORDER

Press U/I.

### **ACCESS MAIN MENU SCREEN**

Press MENU.

### **ACCESS FUNCTION SET SCREEN**

Place the pointer next to "FUNCTION SET" by pressing **PUSH JOG**  $\triangle \nabla$ , then press **OK** or **PUSH JOG**  $\triangleright$ .

### **ENABLE/DISABLE** ON-SCREEN DISPLAY

The default setting is "ON", so if you want onscreen displays, leave the setting as it is and go to step 5. If you don't want the displays to appear, press **PUSH JOG** △▽ to place the pointer next to "O.S.D." and press **OK** or **PUSH JOG** ▷ to set to "OFF".

**FUNCTION SET** AUTO TIMER

■ 0.S.D.
B.E.S.T.
AUTO SP→LF 0FF ON ON OFF LP TIMER TIME SCAN AUDIO ΩN [▲/▼] → ©K [MENU] : EXIT

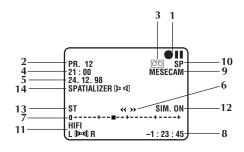
### RETURN TO NORMAL

Press MENU.

#### **NOTES:**

- When you use this recorder as the player for editing, be sure to set "O.S.D." to "OFF" before starting.
- During playback, the operation mode indicators may be disturbed depending on the type of tape being used.

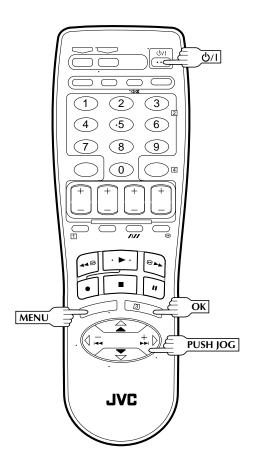
#### The superimposed indication on the TV screen tells you what the recorder is doing.



- 1- Operation mode indicators
- 2– Channel position number/Aux. indicator (L-1 or F-1)
- 3- Cassette loaded mark
- 4- Clock display
- 5- Current day/month/year
- **6–** Tape direction
- 7- Tape position indicator ( pg. 15)
- 8- Counter display
- 9- Colour system indicator ( pg. 40)
- 10- Tape speed SP/LP/EP
- 11 Audio mode display ( pg. 15)
- 12- Simulcast recording indicator ( pg. 21)
- 13- Type of Broadcast ( pg. 20)
- 14- Spatializer® indicator ( pg. 15)

# Select Language

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



TURN ON THE RECORDER

Press U/I.

ACCESS MAIN MENU SCREEN

Press **MENU**.

ACCESS INITIAL SET SCREEN

Press **PUSH JOG** △∇ to place the pointer next to "INITIAL SET", then press **OK** or **PUSH JOG** ▷.

MAIN MENU

FUNCTION SET
TUNER SET

FINITIAL SET

[▲/▼] → ⊙K [MENU] : EXIT

ACCESS LANGUAGE SELECT SCREEN

Press **PUSH JOG** △▽ to place the pointer next to "LANGUAGE", then press **OK** or **PUSH JOG** ▷.

INITIAL SET

CLOCK SET

LANGUAGE
G-CODE SET UP

[▲/▼] → ©K [MENU] : EXIT

SELECT LANGUAGE

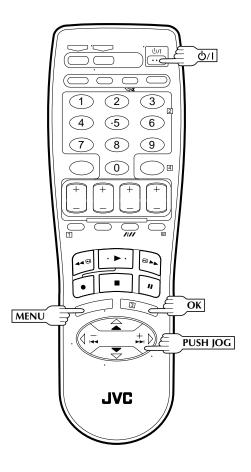
Place the pointer next to the language of your choice (English or Chinese) by pressing **PUSH JOG**  $\triangle \nabla$ , then press **OK** or **PUSH JOG**  $\triangleright$ .

RETURN TO NORMAL SCREEN

Press MENU.

## **Clock Set**

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



#### TURN THE RECORDER ON

Press U/I.

### ACCESS MAIN MENU SCREEN

Press MENU.

# ACCESS INITIAL SET SCREEN

Press **PUSH JOG** △▽ to place the pointer next to "INITIAL SET", then press **OK** or **PUSH JOG** ▷.

MAIN MENU

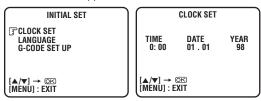
FUNCTION SET
TUNER SET

FINITIAL SET

[△/▼] → □
[MENU] : EXIT

# ACCESS CLOCK SET SCREEN

Press **PUSH JOG**  $\triangle \nabla$  to place the pointer next to "CLOCK SET", then press **OK** or **PUSH JOG**  $\triangleright$ . The Clock Set screen appears.



#### SET TIME

Press **PUSH JOG**  $\triangle \nabla$  to set the time, then press **OK** or **PUSH JOG**  $\triangleright$  .

 Press and hold either button to delay or advance the time by 30 minutes.

#### **SET DATE**

Press **PUSH JOG**  $\triangle \nabla$  to set the date, then press **OK** or **PUSH JOG**  $\triangleright$ .

Press and hold either button to change the date by 15 days.

#### SET YEAR

Press **PUSH JOG**  $\triangle \nabla$  to set the year.

### START CLOCK OPERATION

Press **MENU**.

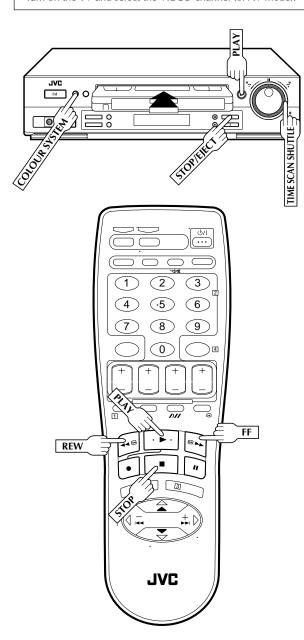
#### **NOTE:**

If the year digits are automatically cleared, it is possible that you have input 29th February for a non-leap year. Input the correct data.

PLAYBACK EN 11

# Basic Playback

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



The easiest, most basic operation possible with your video recorder is tape playback. Already-recorded signals on a video tape are read by your video recorder and displayed on your TV just like a TV programme.

#### 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 point toward the recorder. Don't apply too much pressure when inserting.

- The recorder power comes on automatically and the counter is reset to 0:00:00.
- Select the appropriate colour system by pressing the **COLOUR SYSTEM** button. ( pg. 40)
- If the record safety tab has been removed, playback begins automatically. (() pg. 18)

### FIND PROGRAMME START

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

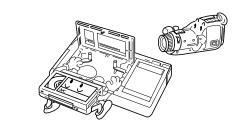
#### START PLAYBACK

Press **PLAY**. "BEST" appears blinking in the recorder's display panel during automatic tracking. (1) pg. 22)

#### STOP PLAYBACK

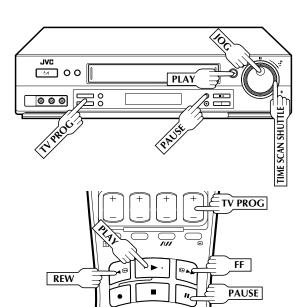
Press **STOP** on the remote or **STOP/EJECT** on the recorder's front panel. Then press **STOP/EJECT** to remove the cassette.

#### Usable cassettes



- Compact VHS camcorder recordings can be played on this video recorder. Simply place the recorded cassette into a VHS Cassette Adapter and it can be used just like any full-sized VHS cassette.
- This 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 a recorded Super VHS tape.

### Playback Features



### **High-Speed Search**



# ACTIVATE HIGH-SPEED SEARCH

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

PUSH JOG

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.

#### **ATTENTION**

- Picture may not appear during high-speed search with an LP-recorded tape.
- In the high-speed search, still, or frame by frame playback mode, the picture may be distorted, and there may be a loss of colour.

# Still Picture/Frame-By-Frame Playback

1

#### PAUSE DURING PLAYBACK

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

- During still picture, the sound from the previous 3 seconds (approx.) will be played back repeatedly (provided there was at least 6 seconds of normal playback prior to engaging the still picture mode).
- "TIME SCAN AUDIO" must be set to "ON", or the sound will not be heard. (

  pg. 17)

# ACTIVATE FRAME-BY-FRAME PLAYBACK

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

OR

Press PAUSE.

OR

Press **PUSH JOG** ⊲ or ▷.

To resume normal playback, press PLAY.

#### **Slow Motion**

PLAY urn the T

# ACTIVATE SLOW-MOTION PLAYBACK

Turn the **TIME SCAN SHUTTLE** ring to the left or press **PUSH JOG** < during playback to decrease speed in the forward direction. To play in reverse slow-motion (and in reverse play mode), continue to turn the **TIME SCAN SHUTTLE** ring to the left or press **PUSH JOG** < after selecting all the forward direction slow-motion modes.

OR

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

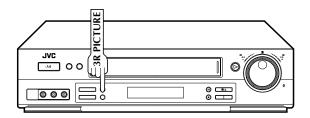
OR

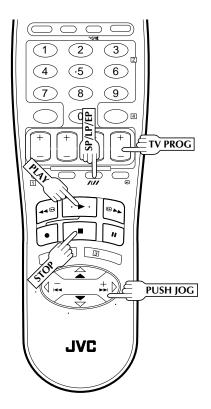
During still picture, press and hold **PAUSE** for 2 seconds, then release. Press and release again to return to still picture.

OR

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

To resume normal playback, press PLAY.





#### **3R Picture**

3R(= Resolution and Response Recovery technology) maximises sense of resolution and sharpens image edges to make playback picture look better focused.

1

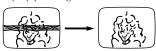
### **ACTIVATE 3R PICTURE**

Press 3R PICTURE. The button will light.

- To turn off 3R Picture, press **3R PICTURE** again so that the light goes off.
- Normally it is recommendable to keep 3R Picture ON (with the button lit).
- Depending on the type of tape used, picture quality may be better with 3R Picture set to off.
- If you use this recorder as the player for editing, be sure to turn off 3R Picture before starting.
- The setting will remain effective even though you turn on/off the recorder.

### **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/EP) on the remote to engage manual tracking.

# ADJUST TRACKING MANUALLY

Press **TV PROG** + or – to adjust tracking.

# RETURN TO AUTOMATIC TRACKING

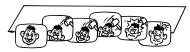
Press //// (SP/LP/EP) on the remote to re-engage automatic tracking.

#### **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.



### START PLAYBACK

Press **PLAY**.

# ACTIVATE REPEAT PLAYBACK

Press **PLAY** and hold for over 5 seconds, then release.

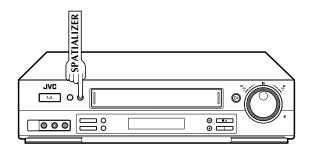
- The Play indicator (>) on the display panel blinks slowly.
- The tape plays 50 times automatically, and then stops.

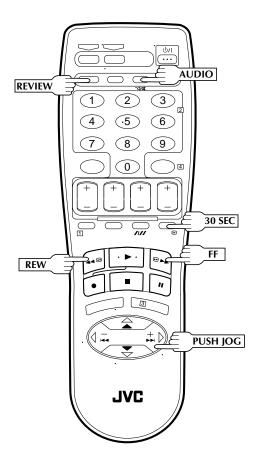
#### STOP PLAYBACK

Press **STOP** at any time to stop playback.

### NOTE:

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





#### **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.

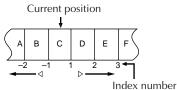
### ACTIVATE INDEX SEARCH

Press **PUSH JOG** ⊲ or ▷ on the remote control. "I◄ 1" or "▶► 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

1

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 three times. 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.

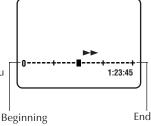
### **Next Function Memory**

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 **O/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 "\(\bilde{\Pi}\)" in relation to "0" (beginning) or "+" (end) shows you where you are on the tape.
"O.S.D." (\(\overline{\Pi}\)" pg. 8) must be set to "ON", or the indicator



#### **NOTE:**

will not appear.

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

### Skip Search

# 1

# SKIP OVER UNWANTED SECTIONS

Press **30 SEC** 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.

### **Spatializer®**

This feature expands sound field when you play back any stereo source or view a stereo programme while recording it. \*Spatializer® has no effect on recording quality.

# 1

### **ACTIVATE SPATIALIZER®**

Press **SPATIALIZER**; the current setting will be displayed on the screen for about 5 seconds. Pressing **SPATIALIZER** while the screen shows the display changes the setting.

- To view a stereo programme such as movies or music, select "SPATIALIZER I™ ¶" to create more spacious sound
- spacious sound.

   To view a monaural programme, select

  "SPATIALIZER → ST" which simulates a stereo effect.
- Select "SPATIALIZER OFF" to turn off Spatializer<sup>®</sup> if the sound becomes unnatural with either "SPATIALIZER ™ Ф" or "SPATIALIZER→ST" selected.
- If your TV is equipped with 3D-PHONIC and if you use both Spatializer® and 3D-PHONIC at the same time, the sound may become unnatural; set either function to "OFF".
- The setting will remain effective even though you turn on/off the recorder.

#### **NOTES:**

- Spatializer® is effective only with a stereo TV.
- You can change the Spatializer® setting even though "O.S.D." is set to "OFF".
- The setting cannot be changed during search, still, frame-byframe playback or slow motion mode.
- When this recorder is used as the player for editing, the recorded audio will correspond to the Spatializer® setting.

#### Soundtrack Selection

Your video recorder is capable of recording three soundtracks (HI-FI L, HI-FI R and NORM) and will play back the one you select.

#### **During Playback**

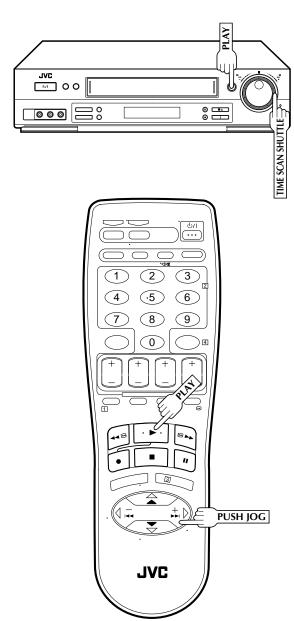
Pressing AUDIO on the remote control changes the soundtrack being played back as follows:

TRA	ACK		
Recorder's Front Panel	On-Screen Display	USE	
L + R	HIFI L Dr 41 R	For Hi-Fi stereo tapes	
L	HIFI L D	For main audio of Bilingual tapes	
R	HIFI ¶R	For sub audio of Bilingual tapes	
NORM	NORM	For audio-dubbed tapes	
L + R + NORM	HI FI NORM	For audio-dubbed tapes	

#### **NOTES:**

- "L + R" should normally be selected. In this mode, Hi-Fi stereo tapes are played back in stereo, and the NORM track is played back automatically for tapes with only normal audio.
- "O.S.D." must be set to "ON" or the on-screen displays will not appear (□ pg. 8).

### **TimeScan**



Your recorder is equipped with the TimeScan function. TimeScan allows noise free pictures to be displayed on your TV screen in the forward and reverse search modes. Audio will be played back at normal speed during the TimeScan modes (F) pg. 17). TimeScan allows you to view a programme in search mode while listening to the audio.

#### **NOTES:**

- "TIME SCAN AUDIO" must be set to "ON", or the sound will not be heard in TimeScan mode. (☐ pg. 17)
- The audio will not synchronize with the video in TimeScan modes.
- In Pause mode 3 seconds (approx.) of audio will be played back repeatedly. ( pg. 12)
- In TimeScan search modes some of the audio information will not be played so that the audio can keep up with the video.
- Slow motion is not possible with TimeScan.

#### Audio signal during TimeScan

Playback tape



Sound of ①, ③ and ⑤ is heard. Sound of ② and ④ is not heard.

Output audio signal is normal (monaural) sound.

### Variable-Speed Search

# ACTIVATE VARIABLE-SPEED SEARCH

1

During playback or still, turn the recorder's **TIME SCAN SHUTTLE** ring. It remains at that position even after you release it. Each time it passes a click position, the playback speed changes. (Refer to the chart on pg 17 for playback speeds).

#### OR

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.
   (Refer to the chart on pg 17 for playback speeds).

To resume normal playback, press PLAY.

#### **TimeScan**

Name:	s of I-effects	Reverse						Forward						
playba	ıck		Se	arch		Play	Slow-Motion *Sti		ill	Slow-N	Aotion	Play	Search	
PAL/	SP	-9x	   -7x	  -5x 	   -3x 	-1x	-1/6x	  -1/18x 	C	)	1/18x	1/6x	1x	2x   3x   5x   7x   9x
MESECAM			г – - I -7х I		   -3x		-1/6x	ı -1/18x		)	1/18x	1/6x	1x	2x     5x     9x
NTSC	SP/EP		I I -7x I	  -5x	   -3x	-1x	-1/6x	  -1/18x	C	)	1/18x	1/6x	1x	2x   3x   5x   7x
Audio	output		Αι	udio is	dio is output.		Audio is not Aud output. outp				Audio is output.			

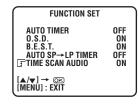
- \* Still mode cannot be engaged using the remote control's **PUSH JOG** ⊲ or ▷ button. Still mode can only be engaged by pressing the **PAUSE** button.
- The speed is shown during TimeScan in the upper right corner of the TV screen for approx. 5 seconds. (The display may be distorted.)
- To resume normal playback, press **PLAY**.
- When using the recorder's **TIME SCAN SHUTTLE** ring, the playback speed may not change in the correct step if it is turned too fast.
- Picture and audio may become distorted when the recording speed changes. When this happens, resume normal playback once, and then try using TimeScan again.
- The picture may be noisy or there may be a loss of colour when you change the playback speed. (More noise will appear with LP recordings.)
- During high-speed search with an NTSC tape containing both SP and EP recordings, the search speed will change automatically to 7x normal playback speed with TimeScan when the recording tape speed switches from EP to SP.
- Noise may appear or the upper part of the picture may be distorted during still, frame-by-frame playback, 2x search, or depending on the tape being used.
- Picture may appear distorted in comparison to normal playback.
- In TimeScan mode there will be a time lag between the video and the audio and noise may appear in the audio signal.
- TimeScan sound quality will differ in comparison to normal playback.
- When material such as music videos where there is non-stop sound (very few breaks in the soundtrack) are viewed at 2x normal speed, the audio playback may be faster than normal.
- When the playback direction is reversed, it takes approximately 6 seconds until sound is heard.
- There will be a loss of colour or the picture will be monochrome with an LP-recorded MESECAM tape during TimeScan.

If you don't want to hear TimeScan audio, set "TIME SCAN AUDIO" to "OFF" (See below).

#### TimeScan Audio

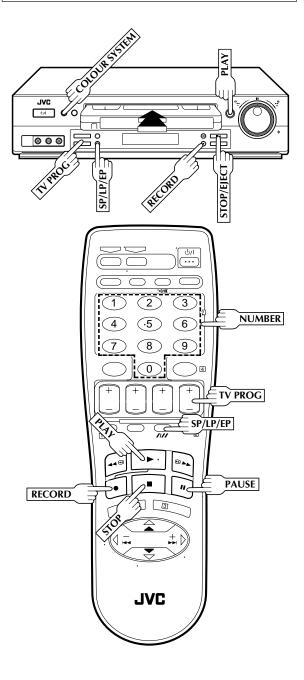
The audio output can be set ON/OFF during TimeScan. Select ON/OFF as required.

- \* The default setting is "ON".
- 1 Press **MENU** to access the Main Menu screen.
- Place the pointer next to "FUNCTION SET" by pressing PUSH JOG △∇, then press OK or PUSH JOG ▷.
- 3 Place the pointer next to "TIME SCAN AUDIO" by pressing **PUSH JOG** △∇, then press **OK** or **PUSH JOG** ▷ to select "ON" or "OFF".
- 4 Press **MENU** to return to the normal screen.



# Basic Recording

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.
- Select the appropriate colour system by pressing the COLOUR SYSTEM button.(□ pg. 40)

#### CHOOSE A PROGRAMME

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

#### SET TAPE SPEED

Press /// (SP/LP/EP). Check the SP/LP/EP 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 each first SP and first LP (or EP) recording after inserting the cassette ( pg. 22).

# PAUSE/RESUME RECORDING

Press PAUSE. Press PLAY to resume recording.

#### STOP RECORDING

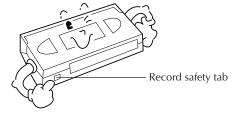
Press **STOP** on the remote control or **STOP/EJECT** on the recorder. Then press **STOP/EJECT** to remove the cassette.

## 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.

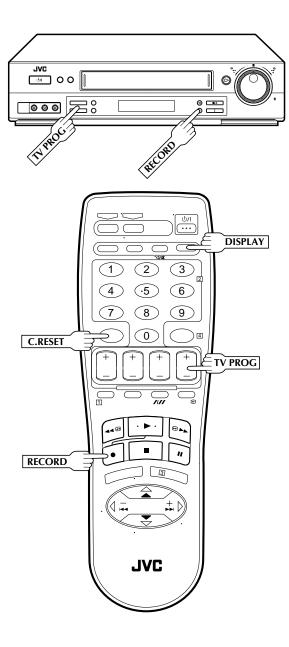
#### Accidental erasure prevention

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



5

# 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

#### **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.

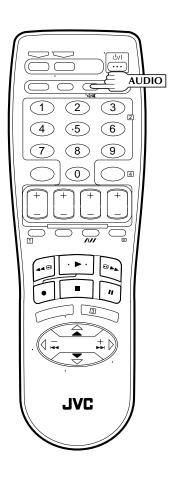
### **ENGAGE ITR MODE**

Press **RECORD** again. "()" 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.

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



# Receiving Stereo And Bilingual Programmes

Your recorder is equipped with a Sound-Multiplex decoder (A2) and a Digital stereo sound decoder (NICAM) as well, making reception of stereo and bilingual broadcasts possible.

When the channel is changed, the type of broadcast being received will be displayed on the TV screen for a few seconds.

Type of Broadcast Being Received	On-screen Display				
A2 Stereo	ST				
A2 Bilingual	BIL				
Regular Monaural	(none)				
NIČAM Stereo	ST NICAM				
NICAM Bilingual	BIL NICAM				
NICAM Monaural	NICAM				

- To listen to a stereo programme, press AUDIO until "□" and "¬" appear on the front display panel or "HIFI L □ ¬ R" appears on the screen.
- To listen to a bilingual programme, press AUDIO until "□" or "□" appears on the front display panel, or "HIFI L □" or "HIFI □ R" appears on the screen (as required).
- To listen to the Standard (regular monaural) audio while receiving a NICAM broadcast, press AUDIO until "NORM" appears on the front display panel or on the screen.

#### **NOTE:**

"O.S.D." must be set to "ON" or the on-screen displays will not appear ( pg. 8).

# To Record Stereo And Bilingual Programmes (A2)

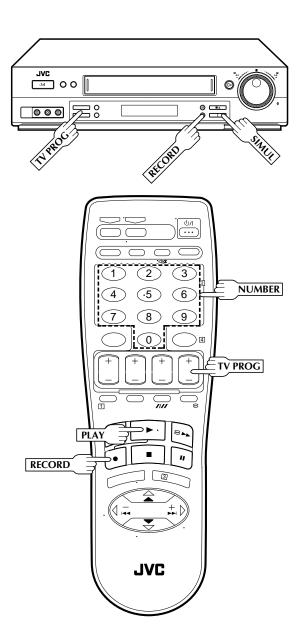
- Stereo programmes are automatically recorded in stereo on the Hi-Fi audio track (with the normal audio track recording mixed L and R channel sound).
- Bilingual programmes are automatically recorded in bilingual on the Hi-Fi audio track. The main soundtrack will be recorded on the normal audio track.

# To Record NICAM Stereo And Bilingual Programmes

The NICAM audio programme will be recorded on the Hi-Fi audio track, and the Standard audio programme on the normal audio track.

#### **NOTES:**

- If the quality of stereo sound being received is poor, the broadcast will be received in monaural with better quality.
- Before playing back a programme recorded in stereo, or a bilingual programme, refer to "Soundtrack Selection" ( pg. 15).



### **Simulcast Recording**

If FM simulcast TV programmes are available, you can record the TV programme with the soundtrack from an FM-broadcast. In the simulcast mode, the external audio programme is recorded on the audio track (both Hi-Fi and normal).

1

#### MAKE CONNECTIONS

Connect the FM tuner to the rear panel AUDIO IN connectors.

### CHOOSE FM BROADCAST

Set the FM tuner to the desired broadcast.

2

#### SELECT TV PROGRAMME

Press **TV PROG** or the **NUMBER** keys to select the TV programme you wish to record.

# ENGAGE SIMULCAST MODE

Press **SIMUL**.

• "SIM. ON" will appear on the screen.

### START RECORDING

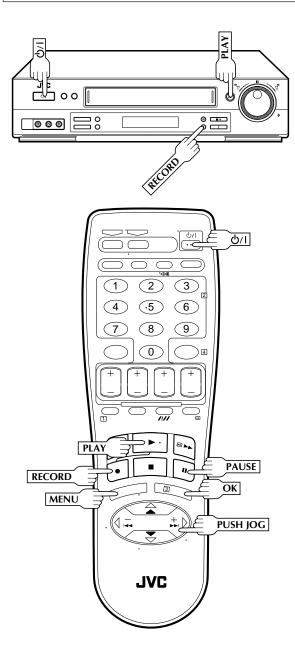
Press **RECORD** on the recorder (or **RECORD** and **PLAY** on the remote control).

### NOTES:

- If you stop recording with the PAUSE button to avoid unwanted TV programme material, the audio programme is also cut
- After finishing simulcast recording, be sure to press the SIMUL button to cancel the Simulcast mode, otherwise it is not possible to record on the audio track from the built-in tuner.
- If TV broadcast is interrupted while simulcast recording, external audio input will not be recorded.

# B.E.S.T. Picture System

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



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**

1

#### TURN THE RECORDER ON

Press ७/1.

### ACCESS MAIN MENU SCREEN

Press **MENU**.

# ACCESS FUNCTION SET SCREEN

Place the pointer next to "FUNCTION SET" by pressing **PUSH JOG** △∇, then press **OK** or **PUSH JOG** ▷.

MAIN MENU

☐FUNCTION SET
TUNER SET
INITIAL SET

[▲/▼] → ◎☑
IMENUI: EXIT

### **SELECT MODE**

Place the pointer next to
"B.E.S.T." by pressing
PUSH JOG △▽, then press
OK or PUSH JOG ▷ to set

to "ON" or "OFF".

FUNCTION SET

AUTO TIMER OFF
O.S.D. ON

B.E.S.T. ON
AUTO SP LP TIMER OFF
TIME SCAN AUDIO ON

[A/V] → ©R
[MENU] : EXIT

### RETURN TO NORMAL SCREEN

Press MENU.

5

### Recording

# 1

#### 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 (or EP) 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 ( pg. 19).

#### **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 22.

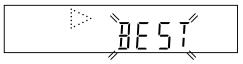
### **Playback**

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

1

### START PLAYBACK

Press **PLAY**.



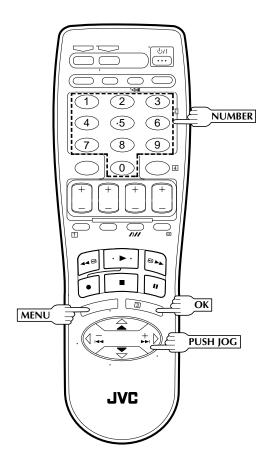
- The recorder adjusts the playback picture quality based on the quality of the tape in use.
- B.E.S.T. is active during Auto Tracking. "BEST" appears blinking on the recorder's display panel.

#### **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 22.
- "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.

# 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, 42)
- Clock setting (□ pg. 10)

#### **IMPORTANT**

Perform the following procedure after Auto Set Up on page 6 and/or the channel setting steps on pages 42 – 45.

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**

ACCESS MAIN MENU SCREEN

Press **MENU**.

# ACCESS INITIAL SET SCREEN

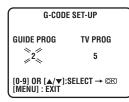
Press **PUSH JOG**  $\triangle \nabla$  to place the pointer next to "INITIAL SET", then press **OK** or **PUSH JOG**  $\triangleright$ .

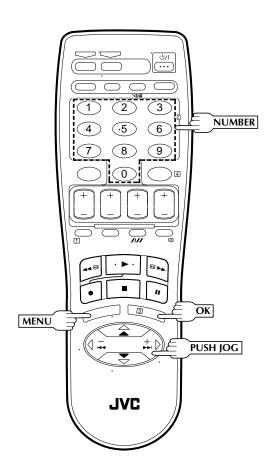
#### **ACCESS G-CODE SET-UP**

Press **PUSH JOG**  $\triangle \nabla$  to place the pointer next to "G-CODE SET-UP", then press **OK** or **PUSH JOG**  $\triangleright$ .

### ENTER GUIDE PROG NUMBER

Press **PUSH JOG** △∇ or **NUMBER** keys to enter the Guide Program number for the desired station as shown in the TV listings. Then press **OK** or **PUSH JOG** ▷.





# ENTER RECEIVING CHANNEL POSITION NUMBER

Press **PUSH JOG** △∇ or **NUMBER** keys to input the number of the recorder's channel position on which the Guide Program number's broadcast is received. Then press **OK** or **PUSH JOG** ▷.

- If the satellite broadcast is received on your recorder's auxiliary channel "L-1", select "L-1" for the channel position.
- Repeat steps 4 and 5 as necessary.

#### RETURN TO NORMAL SCREEN

Press MENU.

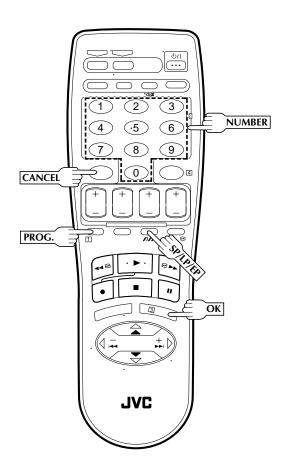
#### **Guide Program Number**

"Guide Program (GUIDE PROG) number" refers to the assigned TV station numbers, according to broadcast area, for G-CODE timer recording. The Guide Program numbers can be found in most TV listings.

# G-code Timer Programming

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

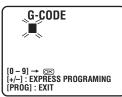
- Be sure to read "G-code Setup" ( pg. 24).
- Insert a cassette with the safety tab in place. The recorder will come on automatically.
- Turn on the TV and select the VIDEO channel (or AV mode)
- Select the appropriate colour system by pressing the **COLOUR SYSTEM** button. ( pg. 40)



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

### **ACCESS G-CODE SCREEN**

Press **PROG.**.



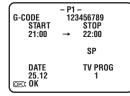
#### **ENTER G-CODE NUMBER**

Press the **NUMBER** keys to enter the G-code number of a programme you wish to record.

 If you make a mistake, press CANCEL and input the correct number. G-CODE
12345678

### ACCESS G-CODE PROGRAM SCREEN

Press **OK**, and the G-CODE Program screen appears (if you're just starting out, "P1" appears).



#### **IMPORTANT**

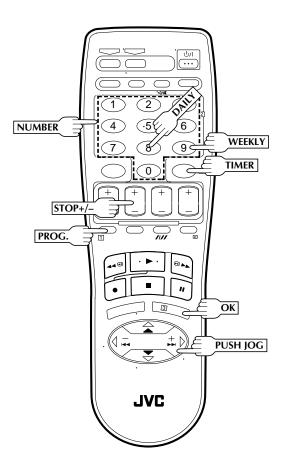
Make sure the channel position number you wish to record is displayed; if not, see "G-code Setup" on page 24 and set the Guide Program number for that G-code number correctly.

- If the number you entered is invalid, "ERROR" appears on the screen. Press CANCEL and input a valid G-CODE number.
- If the "G-CODE SET-UP" screen appears, see "ATTENTION – Regarding Guide Program Number Set" on page 27.

#### SET TAPE SPEED

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

4



### RETURN TO NORMAL SCREEN

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

• Repeat steps 1 – 5 for each additional programme.

# ENGAGE RECORDER'S TIMER MODE

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

#### **NOTES:**

- To Change The Stop Time . . .
- ... press **STOP** +/- after pressing **OK** in step **3**. You can compensate for anticipated programme schedule delays this way.
- To Timer-Record Weekly Or Daily Serials . .
  - ... after pressing **OK** in step **3**, 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.
- 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 ( pg. 30).
- It is not possible to timer-record a TV programme with a G-CODE number which starts with "0".

To timer record with simulcast...

...Press **SIMUL** after pressing **OK** in step **3**; "SIM" appears on the right of TV PROG number. Set the FM tuner to the desired broadcast before the selected programme begins. Then set the FM tuner's timer. If the tuner doesn't have a timer, leave the unit's power turned on.

#### **Satellite Tuner Users**

To timer-record a satellite broadcast using G-CODE:

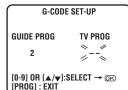
- Perform steps 1 6.
- 2 Set the satellite tuner to the appropriate channel before the selected programme begins.
- 3 Leave the satellite tuner's power on.

#### **ATTENTION**

#### **Regarding Guide Program Number Set**

"G-CODE SET-UP" appears after performing step 3 if the Guide Program number for the G-CODE number you entered has not been set.

 Press the NUMBER keys or PUSH JOG △▽ to input the channel position number on which your recorder receives that station, then press OK or PUSH JOG ▷.
 The G-CODE program screen appears.



(Ex.) To timer-record a RTR programme with G-code.

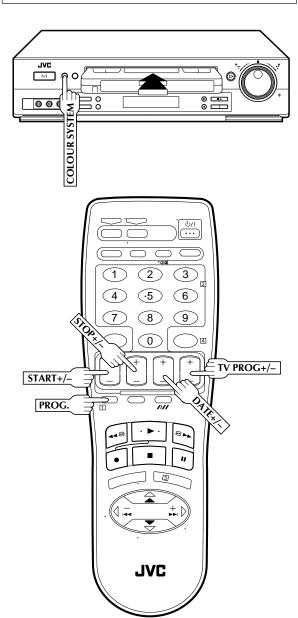
\* If your recorder receives RTR on the channel position 2, press **OK** or **PUSH JOG** ▷ after entering "2".

# **Express Timer Programming**

Remember, the clock must be set before you can programme the timer ( pg. 10).

Before performing the following steps:

- 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).
- Select the appropriate colour system by pressing the COLOUR SYSTEM button.(F) pg. 40)



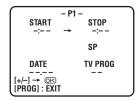
1

### **ACCESS G-CODE SCREEN**

Press **PROG**.

# ACCESS PROGRAMME SCREEN

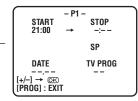
Press **START** +/-. (If you're just starting out, "P1" appears.)



### ENTER PROGRAMME START TIME

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

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



# ENTER PROGRAMME STOP TIME

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

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

#### **ENTER PROGRAMME DATE**

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

# ENTER CHANNEL POSITION

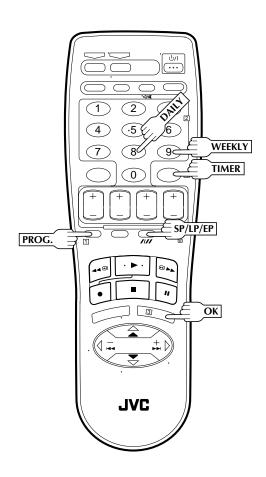
Press TV PROG +/-.

-P1 START STOP
21:00 → 22:00

SP

DATE TV PROG
25.12 1

[+/-] → ⑤⊠
[PROG] : EXIT



#### SET TAPE SPEED

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

### RETURN TO NORMAL SCREEN

8

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

9

Press **TIMER**. The recorder turns off automatically and  $\odot$  appears on the display panel.

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

To Timer-Record Weekly Or Daily Serials . . .

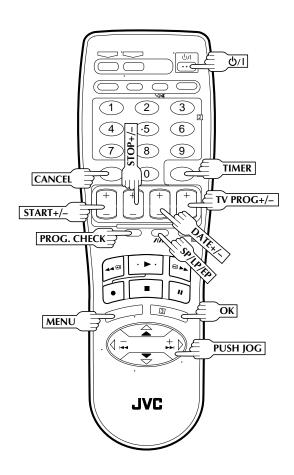
... anytime during steps 2 through 8, press WEEKLY (NUMBER key "9") for weekly serials or DAILY (NUMBER key "8") for daily serials (Monday–Friday). Either "WEEKLY" or "DAILY" appears on the screen. Pressing the button again makes the corresponding indication disappear.

#### **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 ( pg. 30).

To timer record with simulcast...

...While you perform steps 3-7, press **SIMUL** at any time; "SIM" appears on the right of TV PROG number. Set the FM tuner to the desired broadcast before the selected programme begins. Then set the FM tuner's timer. If the tuner doesn't have a timer, leave the unit's power turned on.



# Check, Cancel And Replace Programmes

1

#### DISENGAGE TIMER MODE

Press **TIMER**, then press 0/1.

# ACCESS PROGRAMME CHECK SCREEN

Press **PROG. CHECK**.

1	START 8:00	STOP 10:00	CH 3	DATE 24.12
2	10:00	10:45	2	25.12
3	11:30	13:00	1	25.12
4				
5				
6				
7				
8_				
[PROG CHECK] : NEXT				

### ACCESS PROGRAMME

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

appears.



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

4

# CANCEL OR REPLACE A PROGRAMME

# RETURN TO NORMAL SCREEN

5

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

#### RETURN TO TIMER MODE

Press TIMER.

#### 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 (with PAL broadcasts) or EP mode (with NTSC broadcasts) 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

**ACCESS MAIN MENU** 

Make sure you set "AUTO SP→LP TIMER" to "ON" at the Function Set screen before the timer-recording starts.

**SCREEN** Press MENU.

### **ACCESS FUNCTION SET SCRFFN**

Press **PUSH JOG**  $\triangle \nabla$  to place the pointer next to "FUNCTION SET", then press **OK** or **PUSH JOG** ▷.

#### SELECT MODE

Press **PUSH JOG** △▽ to place the pointer next to . "AUTO SP→LP TIMER", then press **OK** or **PUSH IOG** ▷ to select "ON".

**FUNCTION SET AUTO TIMER** 0FF 0.S.D. B.E.S.T. ON FAUTO SP→LP TIMER TIME SCAN AUDIO ON ON [▲/▼] → OKJ [MENU] : EXIT

### RETURN TO NORMAL **SCREEN**

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 (or EP)
- 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.

### ACCESS MAIN MENU **SCREEN**

Press MENU.

### ACCESS FUNCTION SET **SCREEN**

Press **PUSH JOG** △▽ to place the pointer next to . "FUNCTION SET", then press **OK** or **PUSH JOG** ▷.

MAIN MENU **PFUNCTION SET** TUNER SET [▲/▼] → ©K [MENU] : EXIT

#### **SELECT MODE**

Press **OK** or **PUSH JOG** ▷ to select either "ON" or "OFF".

**FUNCTION SET AUTO TIMER** 0FF 0.S.D. B.E.S.T. UN ON AUTO SP→LP TIMER TIME SCAN AUDIO OFF ON [▲/▼] → ©K [MENU] : EXIT

# **SCREEN**

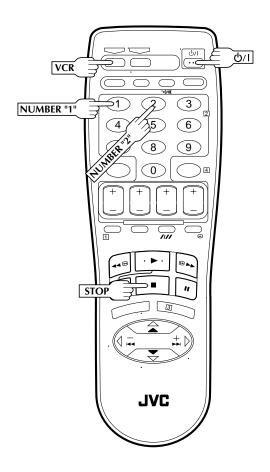
Press MENU.

#### **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.

RETURN TO NORMAL

# Remote Control Functions



### Remote A/B Code Switching

The remote control is capable of controlling two JVC video recorders independently; one set to respond to the remote control's A code control signals and another set to respond to B code control signals. The remote control is preset to send A code signals because your video recorder is initially set to respond to A code signals. You can easily modify your video recorder to respond to B code signals.

1

#### REMOVE POWER SUPPLY

Unplug the mains power cord from the mains outlet.

# SET REMOTE CONTROL CODE

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

#### **RE-SUPPLY POWER**

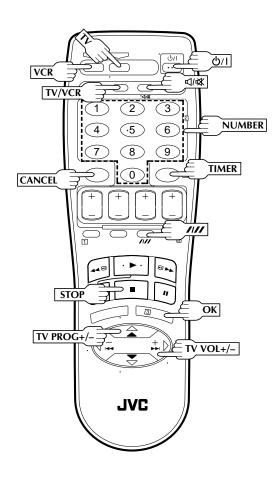
Plug the mains power cord back into the mains outlet.

### TURN THE RECORDER ON

Press Φ/I on the remote control. The recorder will now only respond to B code signals.

#### **NOTE:**

To set the recorder back to respond to A code signals, repeat the same procedure as shown above except pressing **NUMBER** key "1" instead of "2" in step **2**.



# TV Multi-brand Remote Control

Your remote control can operate the basic functions of your TV set. In addition to JVC TVs, other manufacturer's TVs can also be controlled.

Before you start . . .

• Turn on the TV using its remote control.

### SET TV BRAND CODE

Refer to the chart below. While holding down TV on the recorder's remote control, enter your TV's brand code using the NUMBER keys, then press STOP. Check if the TV's power goes off as it should. If it does, try other operations ( step 2)

- 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 battteries.
- SAMSUNG has two codes. If the TV does not function with one code, try entering another.

#### **OPERATE TV**

First, press TV to set the remote control to TV mode, then press the corresponding button: 也/I, TV PROG +/-, TV/VCR, TV VOL +/- (Volume), 点/域 (Muting), NUMBER keys.

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

#### **IMPORTANT**

Although the provided remote control unit is compatible with JVC televisions, as well as many other models, <u>it may not work with your TV</u>, or in some instances, may have limited function capability.

#### **ATTENTION**

The remote control can operate not only the video recorder but also some of your TV's functions.

- To operate your video recorder, first press the VCR button to set the remote control to the Video mode.
- To operate your TV, first press the TV button to set the remote control to the TV mode.

# Control Your TV Using Additional Buttons

Use the **NUMBER** keys, and the **////** button, **CANCEL** button or **TIMER** button to select the TV's channel.

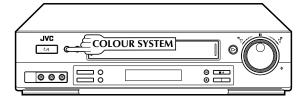
- With televisions under Code 01, 02, 03, 05, 07, 15, 16, 22, 23, 26 or 27, the /// button corresponds to the 1-digit/2-digit entry switching button (often labelled /– –) of your TV's remote control.
- With televisions under Code 01, 08, 18, 19, 24 or 25, the CANCEL button corresponds to the 10 + button, and the TIMER button corresponds to the 20 + button of your TV's remote control.

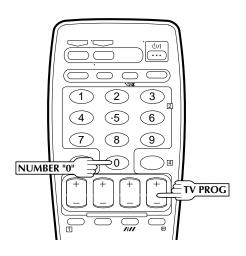
#### **NOTE:**

The way these buttons are used is determined by your TV. Use these buttons as instructed for your TV's remote control.

TV DDANID NIAME	CODE
TV BRAND NAME	CODE
JVC	01
AIWA	10
BEIJING	05, 27
CHANGHONG	05, 06, 16, 25
DAEWOO	11
FERGUSON	15
FINLUX	20
FUNAI	09
GRUNDIG	17
HITACHI	07
ITT	18
JINXING	23
KONKA	26
LG/GOLDSTAR	13
MITSUBISHI	06
MIVER	19
NEC	22
NOBLEX	27
NOKIA	21
PANASONIC	02
PEONY	23,24,25
PHILICO	07
PHILIPS	16
SAMSUNG	12, 16
SANYO	08
SHARP	04
SONY	03
TCL	16, 28
THOMSON	14
TOSHIBA	05

# Edit To Or From Another Video Recorder





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

1

#### MAKE CONNECTIONS

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

Use the L connector for monaural connection.

# SET RECORDING DECK'S INPUT MODE

Set to AUX. With this video recorder, press **NUMBER** key "0" and/or **TV PROG** to select depending on the connector being used — "L-1" for the rear panel VIDEO/AUDIO input connectors, or "F-1" for the front panel VIDEO/AUDIO input connectors.

#### START SOURCE PLAYER

Engage its Play mode.

3

#### START RECORDING DECK

Engage its Record mode.

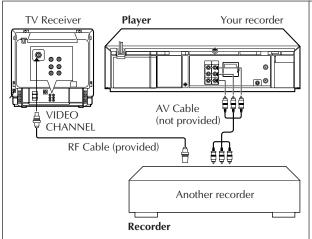
4

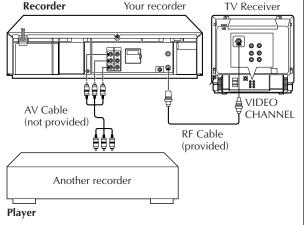
#### **NOTES:**

- All necessary cables can be obtained from your dealer.
- NTSC tapes being played back in the NTSC → PAL mode (□ p. 41) cannot be dubbed to another recorder.
- When you dub an NTSC tape using your recorder as the playback deck, select NTSC 3.58 (or NTSC 4.43) with the **COLOUR SYSTEM** button. ( p. 40)
- If you use this recorder as the player for editing, be sure to turn off 3R Picture before starting. ( pp. 13)

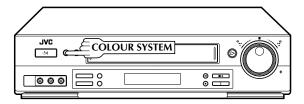
#### **IMPORTANT:**

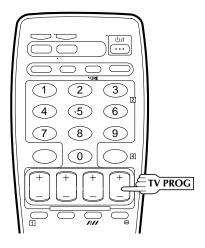
- To edit, both the player and the recorder must be of the same colour system. Press your recorder's COLOUR SYSTEM button to select the appropriate colour system.
- For more information on multi-system compatibility, 
  g pg. 40.

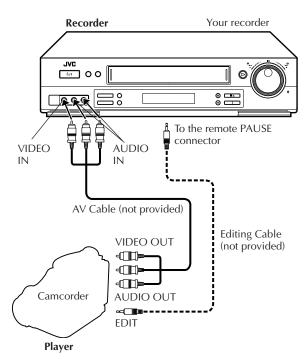




### **Edit From A** Camcorder







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

#### MAKE CONNECTION

Connect the camcorder's AUDIO/VIDEO OUT connectors to the recorder's front panel AUDIO/VIDEO input connectors.

- Use the L connector for monaural connection.
- When a Master Edit Control-equipped JVC camcorder is used, the camcorder is capable of controlling the recorder. Refer to the camcorder's instruction manual for operating procedure.

# SET RECORDER'S INPUT

Press TV PROG so that "F-1" appears on the display panel.

#### START CAMCORDER

Engage its Play mode.

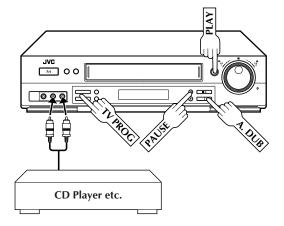
#### START RECORDER

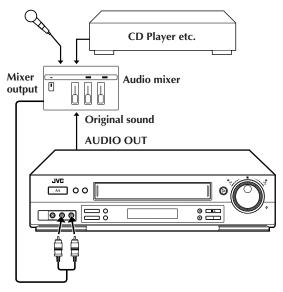
Engage its Record mode.

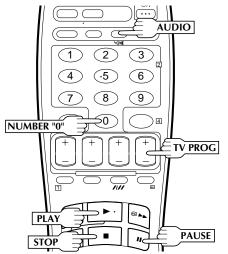
#### **IMPORTANT:**

- To edit, both the player and the recorder must be of the same colour system. Press your recorder's COLOUR **SYSTEM** button to select the appropriate colour system.
- PAL, SECAM and NTSC camcorders can be used as a player for editing.
- For more information on multi-system compatibility, □ pg. 40.

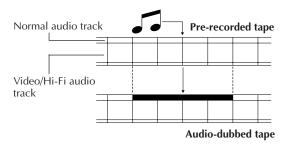
# **Audio Dubbing**







Audio dubbing replaces the normal audio sound of a previously recorded tape with a new soundtrack.



### MAKE CONNECTIONS

Connect an audio component to the AUDIO L + R connectors on the recorder's front panel.

• When connecting monaural equipment, use only the recorder's AUDIO L connector.

#### SET INPUT MODE

Press **NUMBER** key "0" and/or **TV PROG** so that "F-1" appears in place of a channel number.

#### LOCATE START POINT

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

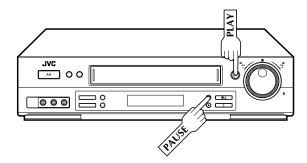
#### ENGAGE AUDIO DUBBING

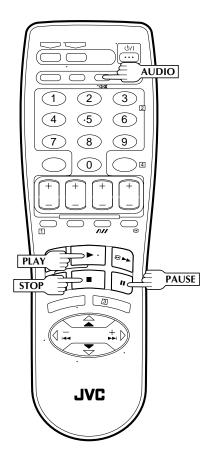
Press A. DUB.

- Your recorder enters the Audio Dubbing Pause mode. ("\" blinks, "\" and "\" light up on the front display
- To perform audio dubbing with audio mixing, press **AUDIO** on the remote control to select "▶ + ◄ (L+R)" at this point.
  - \* Audio dubbing with audio mixing is not possible if you're using a monaural audio component, or if you don't have an audio mixer.

1

Δ





## START DUBBING

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

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

### END AUDIO DUBBING

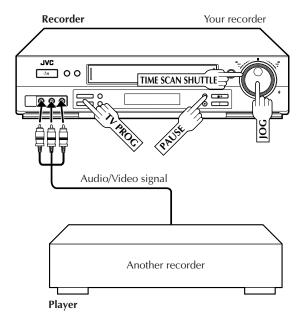
Press **STOP** to stop the tape in your recorder, and engage the audio component's Stop mode.

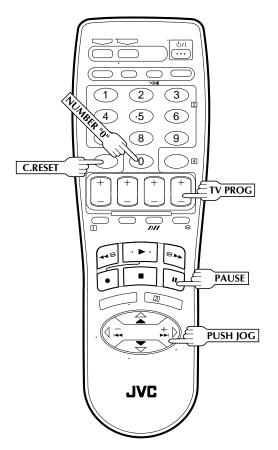
#### **NOTES:**

- When monitoring the sound during Audio Dubbing, the normal soundtrack is automatically selected. If you wish to hear the mixed sound (Hi-Fi + Normal soundtracks), press **AUDIO** on the remote control to select '□ + □ (L+R)+NORM" □ pg. 15).
- Audio dubbing stops automatically when the counter reaches "0:00:00", and the recorder enters the Play mode. Check the counter reading before dubbing.
- Audio dubbing is also possible using the rear panel AUDIO IN L + R connectors. When using these connectors, make sure to select the correct input mode in step 2.
- Audio dubbing cannot be performed on a cassette that has had its record safety tab removed.
- When playing back an audio-dubbed tape, press AUDIO on the remote control to select the soundtrack you wish to hear (□ pg. 15).

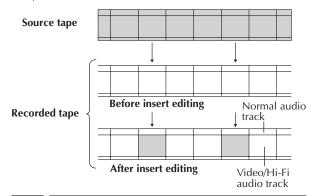
 $38_{ ext{EN}}$  EDITING (cont.)

# **Insert Editing**





Insert editing replaces part of the recorded scene with new material. Both the picture and Hi-Fi audio soundtrack are replaced with new ones, while the normal audio soundtrack remains unchanged. If you wish to change the normal audio track as well, use the audio dubbing function simultaneously. Use your video recorder as the recorder.



### MAKE CONNECTIONS

Connect the player's VIDEO OUT and AUDIO OUT connectors to your recorder's VIDEO and AUDIO connectors on the front panel.

#### SET INPUT MODE

Press **NUMBER** key "0" and/or **TV PROG** so that "F-1" appears in place of a channel number.

#### LOCATE END POINT

Load the recording cassette into your recorder, and play it back to determine the edit-out point (the end of the segment to be replaced) using the JOG/TIME SCAN SHUTTLE controls or PUSH JOG  $\triangleleft \triangleright$  and PAUSE.

### RESET THE COUNTER

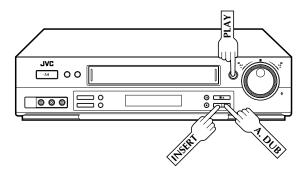
Press **C. RESET** to change the counter display to "0:00:00".

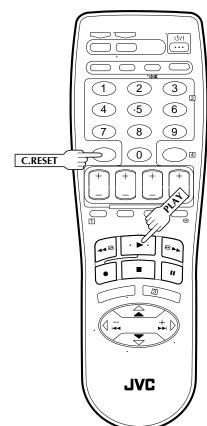
### LOCATE START POINT

Determine the edit-in point (the beginning of the segment to be replaced) using the **JOG/TIME SCAN SHUTTLE** controls or **PUSH JOG**  $\triangleleft \triangleright$  and **PAUSE**.

• Be sure to engage the Still mode at the edit-in point.

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### **ENGAGE INSERT EDITING**

Press **INSERT**.

 The TV screen changes from the still picture to the input source you are going to record.

#### START EDITING

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

• "()" and "|>" are displayed on the front display panel.

### END INSERT EDITING

8

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

#### FOR AV INSERT EDITING

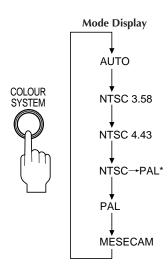
If you want to replace the picture, Hi-Fi audio soundtrack and normal audio soundtrack all at the same time...

... In step 6 above, after you press **INSERT**, press **A. DUB** also. ("\\_" and "\\_" blink and "\\_" lights up on the front display panel.)

#### **NOTES:**

- Suitable leads can be obtained from your dealer.
- Insert editing is not possible with cassettes whose safety tab has been removed.
- When insert editing is performed on a tape that has been recorded on another video recorder, the inserted portion may appear distorted.
- In insert editing, the recording speed (SP/LP) is determined by the previous recording to be replaced. If the previous recording's speed changes within a single edit, the inserted picture will be distorted at the switching point.
- A small portion of the recording which precedes an insert edit may become erased.
- Insert Editing is also possible using the rear panel AUDIO/ VIDEO IN connectors. When using these connectors, make sure to select the correct input mode in step 2.
- Insert Editing is not possible with an NTSC tape.

## **Setting Of The Colour System Select Buttons**



\* "NTSC→PAL" appears during playback only.

Use the **COLOUR SYSTEM** button on the front panel to select the colour system. Pressing this button changes the mode as illustrated on the left. The On-Screen display will show which mode is selected.

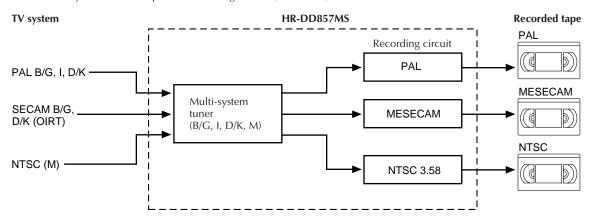
Mode	Description
AUTO	Usually set to this mode. This mode automatically detects PAL, NTSC, SECAM or MESECAM and adjusts to the colour system being recorded or played back. When it does not perform properly, set the colour system manually.
MANUAL	For recording, there is a choice of 4 selectable modes; PAL/MESECAM/NTSC 3.58/NTSC4.43. Select the mode that matches the colour signal being received. For playback, there is an additional mode which allows NTSC tapes to be played back and viewed on PAL TVs.

#### **NOTES:**

- In the AUTO mode, NTSC signals will be automatically recorded as NTSC 3.58.
- In the AUTO mode, NTSC tapes will be played back as NTSC 3.58
- SECAM signals will always be recorded as MESECAM. Select the AUTO or the MESECAM mode when recording SECAM signals.
- When playing back a SECAM tape, select the AUTO or MESECAM mode. The playback picture will always be monochrome.
- In the NTSC4.43 mode, with some TVs, on-screen displays (Program screen etc.) may roll up or down and there may be a loss of colour. When this happens, select the AUTO mode.

## **Off-Air Recording**

The built-in multi-system tuner is capable of receiving PAL B/G, I and D/K, and SECAM B/G and D/K and NTSC broadcasts.

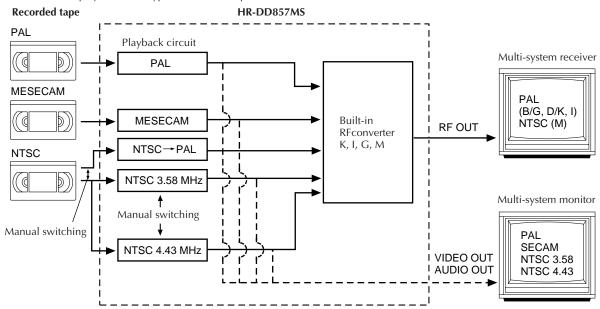


#### **NOTE:**

This model does not operate in BRAZIL (PAL-M) or ARGENTINA (PAL-N).

### **Playback**

This recorder can play back all 4 types of recorded tape.



#### **NOTES:**

When viewing NTSC tapes on a PAL TV set:

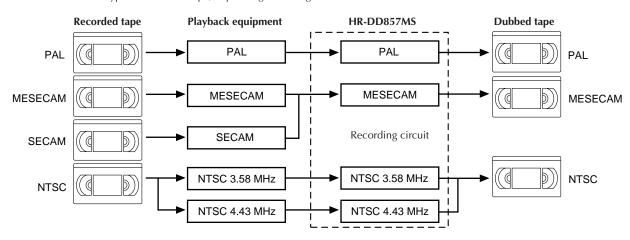
- The picture may shrink vertically with black bars appearing at the top and bottom of the screen. This is not a malfunction on the part of the video recorder nor the TV.
- The picture may roll up or down. This can be corrected using the V-HOLD control found on some TVs. (This cannot be corrected if the TV does not have a V-HOLD control.)
- During search, still, or frame-by-frame playback, the picture will be distorted, and there may be a loss of colour.

#### ATTENTION:

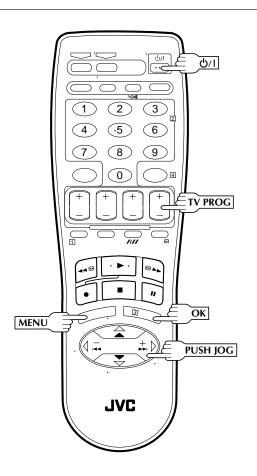
When this recorder is connected to a multi-system TV, the audio signal may not be heard or may be noisy if the colour system select switch of the TV is adjusted to the AUTO position. In such a case, set the TV's colour system select switch to the appropriate position which corresponds to the TV system you have selected at the TV System Select screen.

### **Tape-To-Tape Editing**

There are 4 different types of recorded tape, depending on the signal recorded.



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



#### **IMPORTANT**

Perform the following steps only if auto channel set has not been set correctly by Auto Set Up function ( 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**

1

#### TURN ON THE RECORDER

Press り/l.

### ACCESS MAIN MENU SCREEN

Press **MENU**.

#### **ACCESS TUNER SET SCREEN**

Press **PUSH JOG** △∇ to place the pointer next to "TUNER SET", then press **OK** or **PUSH JOG** ▷.

MAIN MENU

FUNCTION SET

TUNER SET
INITIAL SET

[▲/▼] → ◎
[MENU]: EXIT

#### SELECT AUTO CH SET MODE

Press **PUSH JOG** △∇ to place the pointer next to "AUTO CH SET", then press **OK** or **PUSH JOG** ▷.

TUNER SET

CH EDIT

FAUTO CH SET

[▲/▼] → ◎S

[MENU] : EXIT

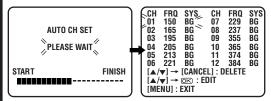
#### SELECT TV SYSTEM

Press **PUSH JOG**  $\triangle \nabla$  to place the pointer next to the appropriate TV system, then press **OK** or **PUSH JOG**  $\triangleright$ .

 Auto Channel Set will start. TV SYSTEM SELECT

☐ B/G
D/K
I
M

[▲/▼] → ②
[MENU]: EXIT



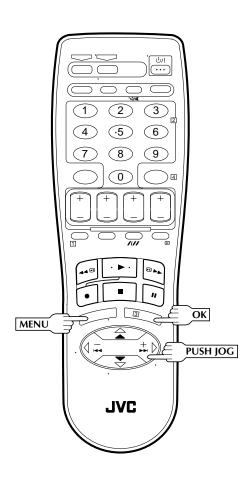
### RETURN TO NORMAL SCREEN

Press **MENU**.

#### **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, ""Delete A Channel" on page 44.

Major Countries	TV System
Australia, New Zealand, Kuwait, U.A.E, Indonesia, Singapore, Thailand, Malaysia, Iran, Saudi Arabia, Egypt, Morocco, Lebanon, Iraq	B/G
China, Mongolia, Russia	D/K
Hong Kong	I
U.S.A., Japan, S.Korea, Taiwan	М



#### **Manual Channel Set**

Store channels that were not stored during Auto Set Up ( p. 6) or Auto Channel Set ( p. 42).

# ACCESS TUNER SET

Perform steps 1 - 3 of "Auto Channel Set" on page 42.

### **ACCESS CHANNEL LIST**

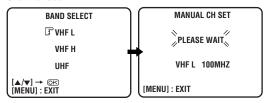
Press **PUSH JOG**  $\triangle \nabla$  to place the pointer next to "CH EDIT", then press **OK** or **PUSH JOG**  $\triangleright$ .

#### 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**

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



## SET DESIRED STATION

The screen to the right appears when a station is detected.

If you do not want to store the detected station... Press **PUSH JOG** △∇ to place the pointer next to "CONTINUE", then press STORE
CONTINUE

[A/▼] → ©E
[MENU]: EXIT

**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**  $\triangleright$ . 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 ( step 4 and 5).
- For fine tuning adjustment, see "Fine-Tuning Channels" on page 45.

### RETURN TO NORMAL SCREEN

Press MENU.

6

### **Delete A Channel**



## **ACCESS TUNER SET SCREEN**

Perform steps 1 - 3 of "Auto Channel Set" on page 42.

#### ACCESS CHANNEL

Press **PUSH JOG** △∇ to place the pointer next to "CH EDIT", then press **OK** or **PUSH JOG** ▷.

#### SELECT CHANNEL

Press **PUSH JOG** △▽ to until the channel you want to delete begins blinking.

	CH 01	FRQ 150	SYS BG	CH 07	FRQ 229	SYS	
ı							
	02	165	BG ~	08	237	BG	
	03	195	BG	09	355	BG	
	04	205	BG	10	365	BG	
	05	213	BG	11	374	BG	
	06	221	BG	12	384	BG	
	[▲/▼] → [CANCEL] : DELETE						
	[▲/▼] → ©K : EDIT						
	[MENU] : EXIT						

### **DELETE CHANNEL**

#### Press CANCEL.

- To re-store it, simply press < □.
- Repeat steps 3 − 4 as necessary.

_					
CH 01 02 03 04 05 06	FRQ 165 195 205 213 221	BG BG BG BG BG	CH 07 08 09 10 11	FRQ 229 237 355 365 374 384	SYS BG BG BG BG BG
[▲/▼] → [◀] : ADD [MENU] : EXIT					

### RETURN TO NORMAL **SCREEN**

Press MENU.

### **Swap Channel Positions**

Example: To swap CH03 and CH09.

### ACCESS TUNER SET **SCREEN**

Perform steps 1 - 3 of "Auto Channel Set" on page 42.

## ACCESS CHANNEL LIST

Press **PUSH JOG** △∇ to place the pointer next to "CH EDIT", then press **OK** or **PUSH JOG** ▷.

## SELECT POSITION (e.g. 03)

Press **PUSH JOG** △▽ until the section of CH "03" begins blinking, then press OK or PUSH JOG >.

• Only "03" will blink.

 CH 01 02 03 04 05	FRQ 150 165 195 205 213	SYS BG BG BG BG	CH 07 08 09 10	FRQ 229 237 355 365 374	SYS BG BG BG BG	
06 [0 -	221 9]: IN : FINE	BG PUT CI TUNIN	12 1	384	BG	
[MENU] : EXIT						

## SELECT POSITION (e.g. 09)

Press **NUMBER** keys to input "0" and "9".

- The two selected channels will be swapped.
- To cancel the channel swapping, press PUSH JOG ◁ .

CH	FRQ	SYS	CH	FRQ	SYS		
01	150	BG	07	229	BG		
02	165	BG	∞08∠	237	BG		
03	355	BG	091	195	BG		
04	205	BG	<b>~10</b> `	365	BG		
05	213	BG	11	374	BG		
06	221	BG	12	384	BG		
[∢]	[◀]: CANCEL						
⊙K : OK							
[MENU] : EXIT							

### STORE NEW POSITIONS

Press **OK** or **PUSH JOG** ▷.

Repeat steps 3 − 5 as necessary.

### RETURN TO NORMAL **SCREEN**

Press MENU.

## **Fine-Tuning Channels**

## ACCESS TUNER SET SCREEN

Perform steps  $\mathbf{1} - \mathbf{3}$  of "Auto Channel Set" on page 42.

#### 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 TO FINE-TUNE

Press **PUSH JOG** △∇ until the channel you want to tune begins blinking, then press **OK** twice.

 The "FRQ" number for that channel starts blinking.

CH	FRQ.	SYS	CH	FRQ	SYS		
01	150	BG	07	229	BG		
02	<b>[165]</b>	BG	80	237	BG		
03	195	BG	09	355	BG		
04	205	BG	10	365	BG		
05	213	BG	11	374	BG		
06	221	BG	12	384	BG		
[▲/	[▲/▼]: FINE TUNING						
(OK)	: SEL	ECT SY	STEM				
[MENU] : EXIT							
					,		

### PERFORM TUNING

Press **PUSH JOG**  $\triangle \nabla$  until the picture becomes clearer, then press **OK** or **PUSH JOG**  $\triangleright$  .

• Repeat steps 3 and 4 as necessary.

# RETURN TO NORMAL SCREEN

Press MENU.

# TV System Selection – When you see the picture but hear no audio

# ACCESS TUNER SET SCREEN

Perform steps 1 - 3 of "Auto Channel Set" on page 42.

#### **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** △∇ until the channel you want to change its TV system begins blinking, then press **OK** three times.

• The "SYS" display for that channel starts blinking.

ı	CH	FRQ.	SYS	CH	FRQ	SYS	
	01	150	BG	07	229	BG	
	02	165	BG ~	08	237	BG	
	03	195	BG	09	355	BG	
	04	205	BG	10	365	BG	
	05	213	BG	11	374	BG	
	06	221	BG	12	384	BG	
	[ <b>A</b> /	<b>▼</b> ]:S	ELECT	SYSTE	M		
	⊙R : OK						
	[MENU] : EXIT						
		-					

### SELECT TV SYSTEM

Press **PUSH JOG**  $\triangle \nabla$  to select the appropriate TV system (BG  $\rightarrow$  DK  $\rightarrow$  I  $\rightarrow$  M). Then press **OK** or **PUSH JOG**  $\triangleright$ .

• Repeat steps 3 and 4 as necessary.

### RETURN TO NORMAL SCREEN

Press MENU.



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
No power is applied to the recorder.	The mains power cord is disconnected.	Connect the mains power cord.
The clock is functioning properly, but the recorder cannot be powered.	● "⊕" 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
The tape does not run during recording.	• """ is displayed on the display panel.	Press <b>PLAY</b> to turn the "" indicator off.
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</li> <li> the TV receiver's channel selector is not set to the VIDEO channel.</li> <li> 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 connection set the TV receiver to the VIDEO channel. (F) pg. 4) Perform "Video Channel Set" (F) pg. 4) If you are using the AV connection, set the TV to its AV mode.
Noise appears during visual search.	• This is normal.	
<ol><li>Noise appears during normal playback.</li></ol>	<ul> <li>The automatic tracking mode is engaged.</li> </ul>	Try manual tracking. (🖙 pg. 13)
<ol> <li>Noise appears during slow-motion playback.</li> </ol>	<ul> <li>The automatic tracking mode is engaged.</li> </ul>	Try manual tracking. (🖙 pg. 13)
<ol><li>Noise appears during still playback.</li></ol>		Press <b>TV PROG +</b> or – a few times to remove the noise bars from the screen.
6. Breaks are noticeable in Hi-Fi soundtrack.	• Automatic tracking is engaged.	Engage and adjust tracking manually.
<ol> <li>The playback picture is blurred or interrupted while TV broadcasts are clear.</li> </ol>	• The video heads may be dirty.	Consult your JVC dealer.
8. Playback picture has a loss of colour.	<ul> <li>The wrong colour system is selected for the tape being played back.</li> <li>The wrong colour system was selected during recording.</li> </ul>	Select the correct colour system by pressing the COLOUR SYSTEM button. (127 pg. 40) Once recorded, the signal cannot be corrected. Be sure to choose the correct setting before recording.
9. No sound accompanies the playback picture.	<ul> <li>The TV system you have selected at the TV System Select screen is incorrect.</li> </ul>	Set it to the correct position for the TV broadcast system used in your area. (127 pg. 45.)

RECORDING		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
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.	• "L-1" or "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 "L-1" or "F-1".
Camcorder recording is not possible.	<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 "L-1" or "F-1".
TIMER RECORDING		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
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 "②" is displayed on the display panel.
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. "⊕" and "ŌŌ" 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.
4. The cassette is automatically ejected, and "②" and "⊙" on the display panel won't stop blinking.	<ul> <li>The loaded cassette has had its Record Safety tab removed.</li> </ul>	Remove the cassette and cover the hole with adhesive tape, or insert a cassette with the Record Safety tab intact.
5. "O" blinks for 10 seconds and the Timer mode is disengaged.	TIMER has been pressed when there are no programs in memory, or the timer record information has been programmed incorrectly.	Check the programmed data and reprogram as necessary, then press <b>TIMER</b> again.
6. The cassette is automatically ejected, the power shuts off and "②" and "⑤○" won't stop blinking.	The end of the tape was reached during timer recording.	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 ( gr pg. 24).



OTHER PROBLEMS		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
Whistling or howling is heard from the TV during camcorder record- ing.	<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.
When scanning channels, some of them are skipped over.	<ul> <li>Those channels have been designated to be skipped.</li> </ul>	If you need the skipped channels, restore them ( pg. 43).
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.
Channel settings that were made manually seem to have changed or disappeared.	<ul> <li>After the manual settings were made, Auto Channel Set was performed.</li> </ul>	Perform manual setting again.
5. No channels are stored in the recorder's memory.	The TV aerial cable was not connected to the recorder when Auto Set Up was performed.	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 (F) 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)

JESTIONS AND ANSWERS

Q. What happens if the tape runs out during recording? A. The video recorder automatically rewinds it to the

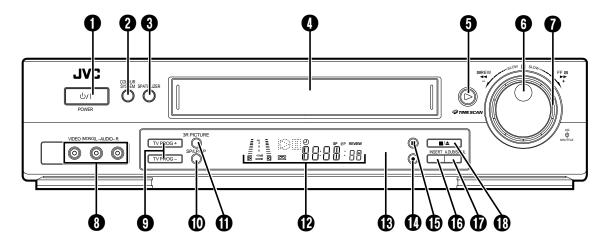
PLAYBACK	TIMER RECORDING
Q. What happens if the end of the tape is reached during playback or search? A. The tape is automatically rewound to the beginning.	Q. "○" and "⊙" remain lit on the display panel. Is there a problem?  A. No. This is a normal condition for a timer recording in
	progress.
<ul> <li>Q. Can the video recorder indefinitely remain in the still mode?</li> <li>A. No. It stops automatically after 5 minutes to protect the heads.</li> <li>Q. When returning from multi-speed search to normal playback, the picture is disturbed. Should I be concerned about this?</li> <li>A. No, it is normal.</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> <li>Q. Is it possible to timer-record a TV programme broadcast in 2000?</li> <li>A. Yes, it is possible.</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>	
Q. Sometimes, during Index Search, the video recorder can't find the programme I want to see. Why not?  A. There may be index codes too close together.	
RECORDING	
<ul> <li>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?</li> <li>A. This is normal. It reduces distortion at the pause and resume points.</li> </ul>	
Q. Can the video recorder indefinitely remain in the	
Record-Pause mode?  A. No. The video recorder goes to its Stop mode automatically after 5 minutes to protect the heads.	

#### **ATTENTION:**

beginning.

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.

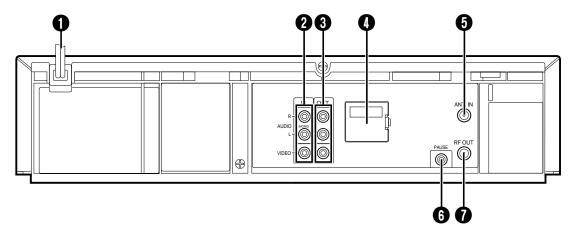
#### **FRONT VIEW**



- 1 POWER ७/I Button 🖙 pg. 8
- 2 COLOUR SYSTEM Button F pg. 40
- **3** SPATIALIZER Button □ pg. 15
- Cassette Loading Slot
- **⑤** PLAY Button ☐ pg. 11
- 6 JOG Dial © pg. 12
- 7 TIME SCAN SHUTTLE Ring ☐ pg. 12
- **③** VIDEO/AUDIO Input Connectors ☞ pg. 35
- **9** TV PROG +/− Buttons 🖙 pg. 18
- **1** SP/LP/EP Button □ pg. 18

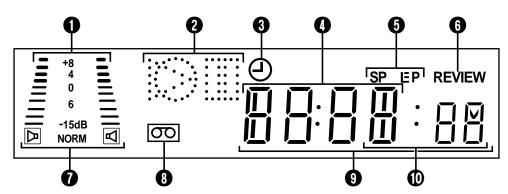
- **1** 3R PICTURE Button □ pg. 13
- Display Panel □ pg. 51
- 13 Infrared Beam Receiving Window
- 1 RECORD Button @ pg. 18
- **1** PAUSE Button □ pg. 12
- **(b)** INSERT Button □ pg. 39
- **1** A. DUB [Audio Dubbing] Button ☐ pg. 36 SIMUL Button ☐ pg. 21
- STOP/EJECT Button 
   pg. 11

#### **REAR VIEW**



- **1** Mains Power Cord **□** pg. 3
- 2 AUDIO/VIDEO IN Connectors pg. 34
- 3 AUDIO/VIDEO OUT Connectors pg. 3, 34
- 4 Lithium Battery Compartment g pg. 5
- **5** ANT. IN Connector **□** pg. 3
- **6** Remote PAUSE Connector **□** pg. 35
- **7** RF OUT Connector **□** pg. 3

#### **DISPLAY PANEL**



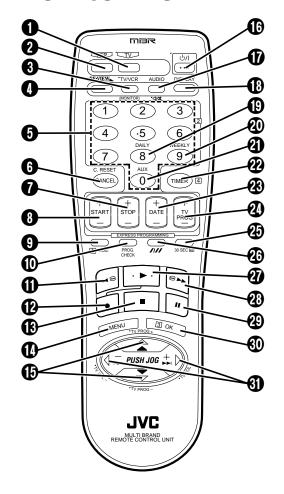
- **1** B.E.S.T. Picture System Display ☞ pg. 22 Audio Level Indicator
- 2 Symbolic Mode Indicators

PLAY: FF/REW VARIABLE SHUTTLE SEARCH:	Þ	STILL: SLOW:	
		RECORD:	0
		RECORD PAUSE:	
AUDIO DUBBING:			<b>(</b>
AUDIO DUBBING PAUSE:			<b>XXII</b>
INSERT:			D
INSERT PAUSE:			
AUDIO DUBBING INSERT:			
AUDIO DUBBING INSERT PAUSE:			

- 3 "Timer" Indicator 

  pg. 27
- Channel Display Clock Display
- **5** Tape Speed Indicators □ pg. 18
- 6 Instant REVIEW Indicator 🖙 pg. 14
- **1** Audio Mode Indicator □ pg. 15
- 8 "Cassette Loaded" Mark
- 9 Counter Display
- Mode Display (L-1 or F-1)

#### **REMOTE CONTROL**



Buttons with a small dot on the left side of the name can also be used to operate your TV F pg 33.

- **1** TV Button 🖙 pg. 33
- 2 VCR Button grapp. 33
- **3** TV/VCR Button □ pg. 33
- ♠ REVIEW Button 

  pg. 14
- **5** NUMBER Keys 🖙 pg. 18
- **6** CANCEL Button ☞ pg. 30 Counter [C.] RESET Button ☞ pg. 19
- S CTOD / Putton Sana 20
- **7** STOP +/− Button 🖙 pg. 28
- **8** START +/− Button 🖙 pg. 28
- 9 PROG. Button 🖙 pg. 28
- **10** PROG. CHECK Button **17** pg. 30
- **①** Rewind [REW] Button □ pg. 11, 12
- 1 RECORD Button ☐ pg. 18
- **13** STOP Button □ pg. 11
- MENU Button 
   pg. 8
- **(b)** PUSH JOG △∇ Button 🖙 pg. 6 TV PROG +/- 🖙 pg. 33
- 16 POWER ⊍/I Button 🖙 pg. 8
- **1** AUDIO Button □ pg. 15
  - 【✓/【 (TV Muting) Button ☐ pg. 33
- DISPLAY Button □ pg. 19
- 1 DAILY Button pg. 29
- WEEKLY Button F pg. 29
- **②** AUX Button © pg. 34
- 2 TIMER Button 🖙 pg. 27
- **②** DATE +/− Button 🖙 pg. 28
- **2** TV PROG +/– Button 🖙 pg. 18, 28
- **②** 30 SEC Button □ pg. 15
- Tracking Button ☐ pg. 13 SP/LP/EP Button ☐ pg. 18
- 2 PLAY Button F pg. 11
- **1** Fast Forward [FF] Button □ pg. 11, 12
- 29 PAUSE Button 🖙 pg. 12
- 30 OK Button □ pg. 4
- ¶ PUSH JOG ⟨D(I← ► ► ► I) Button □ pg. 12, 13 TV VOL +/-Button □ pg. 33

#### How To Use

The remote control can operate most of your video recorder's functions, as well as basic functions of TV sets of JVC and other brands.  $\square$  pg. 33.

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

#### **NOTES:**

- When inserting the batteries, be sure to insert in the correct directions as indicated under the battery cover.
- If the remote control doesn't work properly, remove its batteries, wait a short time, replace the batteries and then try again.

#### **ATTENTION**

The remote control can operate not only the video recorder but also some of your TV's functions.

- To operate your video recorder, first press the **VCR** button to set the remote control to the Video mode.
- To operate your TV, first press the TV button to set the remote control to the TV mode ( pg. 33).

SPECIFICATIONS EN 53

#### **GENERAL**

Power requirement

Rating : AC  $110 - 240 \text{ V} \sim$ , 50/60 HzOperating : AC  $90 - 260 \text{ V} \sim$ , 50/60 Hz

Power consumption : 22 W

**Temperature** 

Operating : 5°C to 40°C Storage : -20°C to 60°C Operating position : Horizontal only Dimensions (WxHxD) : 400 x 94 x 347 mm

Weight : 3.8 kg Format : VHS standard

Maximum recording time

(SP) : 240 min. with E-240 video

cassette (PAL/MESECAM) : 160 min. with T-160 video

cassette (NTSC)

(LP) : 480 min. with E-240 video cassette (PAL/MESECAM)

(EP) : 480 min. with T-160 video cassette (NTSC)

#### **VIDEO/AUDIO**

Frequency range

Signal system : PAL-type colour signal and

CCIR monochrome signal, 625 lines 50 fields : NTSC colour and EIA

monochrome signals, 525 lines/60 fields

Recording system : DA-4 (Double Azimuth) head helical scan system

Signal-to-noise ratio : 45 dB

Horizontal resolution : 250 lines (PAL/MESECAM)

: 220 lines (NTSC) : 70 Hz to 10,000 Hz (Normal audio)

(Normal audio) 20 Hz to 20,000 Hz (Hi-Fi audio)

Input/Output : RCA connectors

(IN x 2, OUT x 1)

#### **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

E28 – E60)

Memory backup time : Approx. 6 months

Estimated figure based on supplied fresh battery; actual performance may differ.

#### **ACCESSORIES**

Provided accessories : RF cable,

Infrared remote control unit, "R6/UM-3" battery x 2, Lithium battery CR2025, Conversion plug\*

Specifications shown are for SP mode unless otherwise specified.

Design and specifications subject to change without notice.

<sup>\*</sup>Not provided in certain areas.



МЕМО	





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