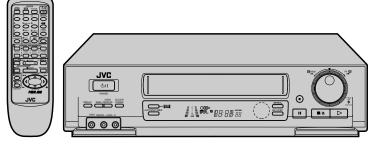
JVC



VIDEO CASSETTE RECORDER

HR-J747MS HR-J647MS



INSTRUCTIONS

ENGLISH

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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.



- Only cassettes marked "VHS" can be used with this videorecorder.
- HQ VHS is compatible with existing VHS equipment.

IMPORTANT

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

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

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

- ... in an environment prone to extreme temperatures or humidity.
- ... in direct sunlight.
- ... in a dusty environment.
- ... in an environment where strong magnetic fields are generated.
- ... on a surface that is unstable or subject to vibration.
- 2. DO NOT block the recorder's ventilation openings.
- 3. <u>DO NOT</u> place heavy objects on the recorder or remote control.
- 4. <u>DO NOT</u> place anything which might spill on top of the recorder or remote control.
- 5. AVOID violent shocks to the recorder during transport.

MOISTURE CONDENSATION

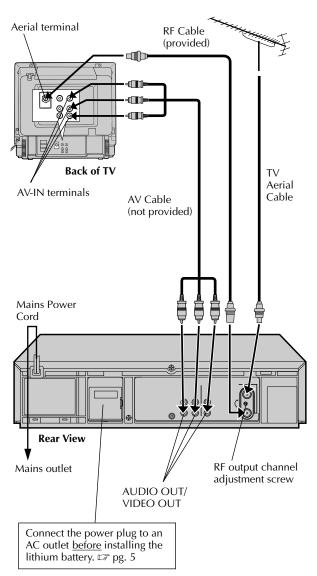
Moisture in the air will condense on the recorder when you move it from a cold place to a warm place, or under extremely humid conditions—just as water droplets form in the surface of a glass filled with cold liquid. Moisture condensation on the head drum will cause damage to the tape. In conditions where condensation may occur, keep the recorder turned on for a few hours to let the moisture dry.

ABOUT HEAD CLEANING

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

INSTALLING YOUR NEW RECORDER

Basic Connections



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

CHECK CONTENTS

Make sure the package contains all of the accessories listed in "Specifications" (\square pg. 40).

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.

Before operating the recorder, make sure the TV's channel is set to the VIDEO channel (27 pg. 5).

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.

Before operating the recorder, make sure the TV is set to the VIDEO (or AV) mode.

CONNECT RECORDER TO MAINS

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

NOTE:

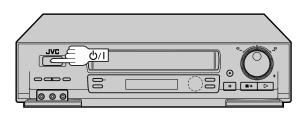
Use the conversion plug (not provided in certain areas) depending on the type of your AC wall outlet.

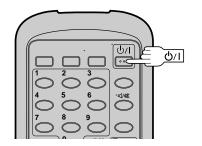
After you plug the mains power cord into a mains outlet, the Auto Set Up display appears on the TV screen and/or on the recorder's front display panel when the \oplus/I button on the recorder/remote control is pressed for the first time to power on the recorder \square pg. 4.

$4_{\scriptscriptstyle EN}$

INITIAL SETTINGS

Auto Set Up Auto Channel Set





ATTENTION

Once you have performed Auto Set Up, even if the recorder's memory backup has expired, all the stored stations remain in the recorder's memory and the recorder will not perform Auto Set Up again.

If you have moved to a different area or a new station starts broadcasting in your area, perform tuner setting. $\square P$ g. 28

When the 0/1 button on the recorder/remote control is pressed for the first time to power on the recorder after you plug the mains power cord into a mains outlet, the Auto Set Up function sets the tuner channels automatically.

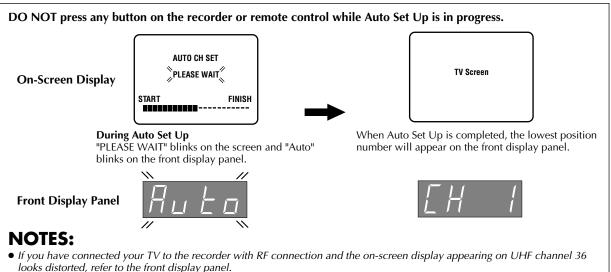
You can refer to the front display panel and/or the on-screen display to perform this procedure.

- 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. IP pg. 3
- b If you want to use the on-screen display, the TV should be set to its AV mode (with AV connection ☞ pg. 3) or UHF channel 36 (with RF connection ☞ pg. 3).

START AUTO SET UP

Press 心/I.

- 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.
- After you perform Auto Set Up, if the tuner channels have not been set properly or if "CH – –" is displayed on the front display panel, make sure that the aerial cable is connected to the recorder properly and turn off the recorder power once, and turn the power back on to try Auto Set Up again.
- If there is a power cut, or if you press 少/I or MENU while Auto Set Up is in progress, Auto Set Up will be interrupted; be sure to turn off the recorder power once and try again.

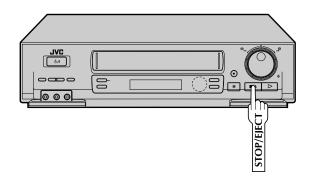


- If you want to set the tuner manually such as to add or skip channels, to swap channel positions, or to fine-tune channels, $\Box = g_2$. 29.
- If no sound accompanies the picture on some channels that have been stored by Auto Set Up, the TV system setting for those channels may be incorrect. Select the appropriate TV system for those channels. IF "TV System Selection When you see the picture but hear no audio" on page 31.



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.



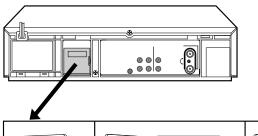
TEST SIGNAL



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

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

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.



The video recorder is designed to send picture and sound signals via the connected RF cable to your TV on UHF channel 36. After you have turned on the recorder, set your TV to UHF channel 36, fine-tune as necessary, and check if picture and sound being received from the recorder come out clearly or not: • If clear enough you don't have to perform the following

steps. Go to "Installing/Removing the lithium battery" on this page.

• If not

Ithium battery" on this page. UHF channel 36 or neighbouring channels may be occupied by local stations. Perform the following steps to change the Video Channel to another channel between 32 – 40.

Before starting, make sure of the following:

- The recorder's power should be off.
- No cassette should be inserted in the recorder.
- The connected TV's power should be on.

SET TV CHANNEL

Set your TV to a channel between 32 and 40 that you want to use as the Video Channel on the TV.

BRING TEST SIGNAL ON SCREEN

Hold down the recorder's **STOP/EJECT** button for more than 5 seconds.

• "- OUT" appears on the display panel.

TUNE YOUR RECORDER

Turn the RF output channel adjustment screw on the rear panel of the recorder by using a screwdriver until the two vertical bars become as clear as they can be.

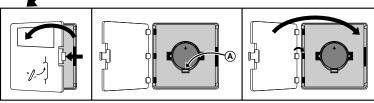
EXIT VIDEO CHANNEL SET MODE

Prese the s

Press the recorder's **STOP/EJECT** button again to finish the setting.

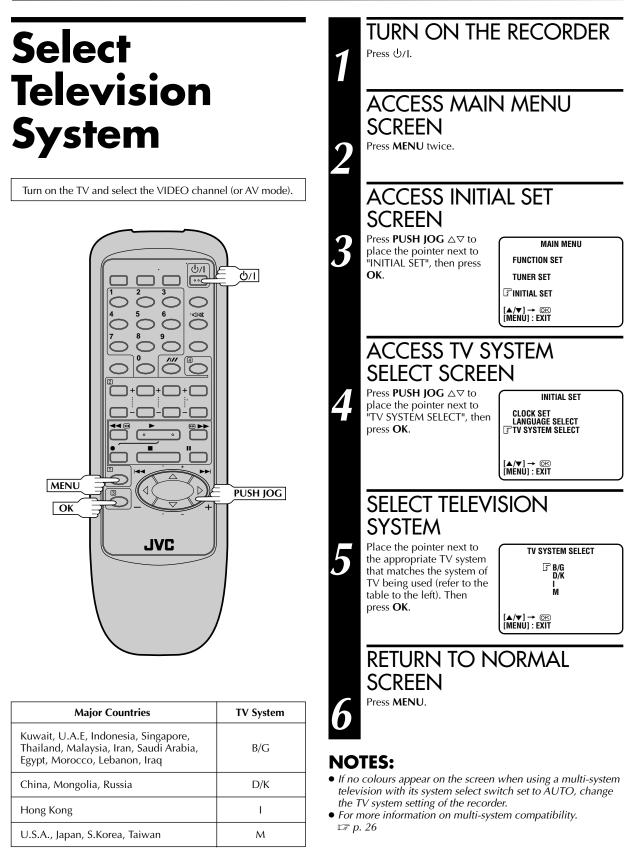
Installing/Removing the lithium battery

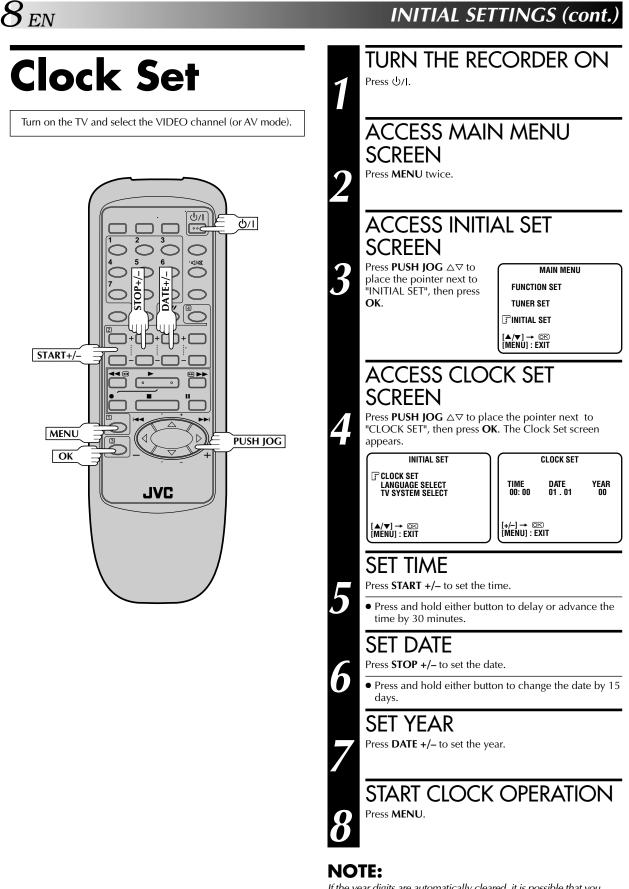
- 1 Make sure that the power plug is connected to an AC outlet and turn off the VCR power.
- 2 Open the battery cover while pressing the release tab as illustrated.
- Insert a lithium battery with the plus (+) side up and push it in.
 - To remove the lithium battery, press the latch (A) downward using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



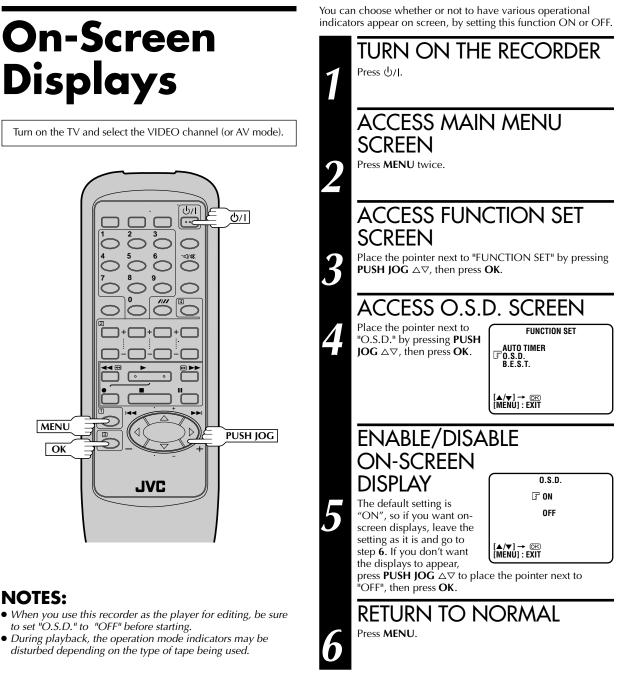
6_{EN} **INITIAL SETTINGS (cont.)** TURN ON THE RECORDER **Select** Press 也/I. Language ACCESS MAIN MENU **SCREEN** Press MENU twice. Turn on the TV and select the VIDEO channel (or AV mode). 2 ACCESS INITIAL SET **SCREEN** ଏ/I <u>୯/୮</u> œ Press **PUSH JOG** △▽ to 3 MAIN MENU place the pointer next to FUNCTION SET "INITIAL SET", then press ⊈/¢X OK. TUNER SET **FINITIAL SET** [▲/▼] → ©K [menu] : exit ACCESS LANGUAGE SELECT SCREEN Press **PUSH JOG** △▽ to INITIAL SET place the pointer next to CLOCK SET LANGUAGE SELECT TV SYSTEM SELECT "LANGUAGE SELECT", I then press OK. MENU < PUSH JOG OK $[\blacktriangle/\bigtriangledown] \rightarrow \bigcirc \\ [MENU] : EXIT$ JVC SELECT LANGUAGE Place the pointer next to the language of your choice 5 (English or Chinese) by pressing $PUSH JOG \triangle \nabla$, then press OK. **RETURN TO NORMAL SCREEN** Press MENU.

EN

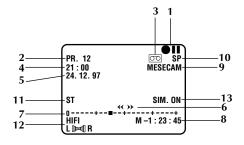




If the year digits are automatically cleared, it is possible that you have input 29th February for a non-leap year. Input the correct data.



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



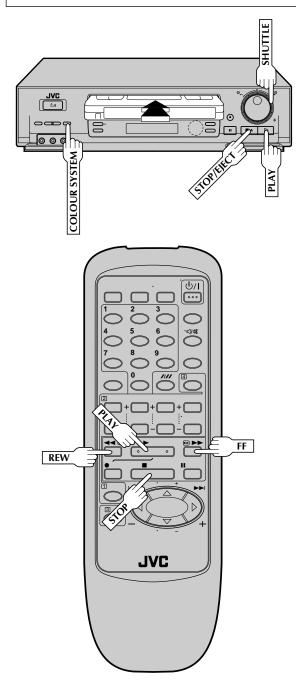
- 1- Operation mode indicators
- 2- Channel position number/Aux. indicator (AUX)
- 3- Cassette loaded mark
- **4** Clock display
- 5- Current day/month/year
- 6– Tape direction
- 7- Tape position indicator (E pg. 13)
- 8- Counter display (including Counter Memory indicator)
- 9- Colour system indicator (Er pg. 26)
- **10–** Tape speed SP/LP/EP
- 11– Type of broadcast (🖙 pg. 17)
- 12- Audio mode display (r pg. 14)
- 13- Simulcast recording indicator (Er pg. 17)

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PLAYBACK

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.(IIF pg. 26)
- If the record safety tab has been removed, playback begins automatically.

FIND PROGRAMME START POINT

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

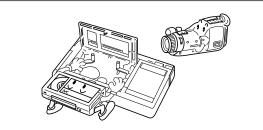
START PLAYBACK

Press **PLAY**. "BEST" appears blinking in the recorder's display panel during automatic tracking. (ICF pg. 18)

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



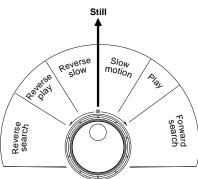
- Compact VHS camcorder recordings can be played on this video recorder. Simply place the recorded cassette into a VHS Cassette Adapter and it can be used just like any full-sized VHS cassette.
- This video recorder can record on regular VHS and Super VHS cassettes. However, it will record and play back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

Playback Features

Take advantage of special functions possible with the recorder's controls or the remote control.

NOTE:

Refer to the **SHUTTLE** ring illustration below as you read the following procedures.



Variable-Speed Search

ACTIVATE VARIABLE-SPEED SEARCH

During playback or still, turn the **SHUTTLE** ring to the right for forward variable-speed search, or to the left for reverse variable-speed search (refer to the above illustration.

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.

To resume normal playback, press PLAY.

NOTES:

- For short searches, press and hold **FF** or **REW** for over 2 seconds. When released, normal playback resumes.
- In the search, still, or frame by frame playback mode, the picture may be distorted, and there may be a loss of colour.

High-Speed Search

ACTIVATE HIGH-SPEED SEARCH

During playback or still, turn the **SHUTTLE** ring all the way to the right for forward high-speed search, or to the left for reverse high-speed search.

- For forward search with a visible picture, turn the **SHUTTLE** ring all the way to the right and release it within 1 second.
- For reverse search with a visible picture, turn the **SHUTTLE** ring all the way to the left and release it within 1 second.

OR

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

To resume normal playback, press PLAY.

Still Picture/Frame-By-Frame Playback



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

PAUSE DURING PLAYBACK

ACTIVATE FRAME-BY-FRAME PLAYBACK



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

OR

Press PAUSE.

OR

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

To resume normal playback, press PLAY.

Slow Motion



ACTIVATE SLOW-MOTION PLAYBACK



During playback or still, turn the **SHUTTLE** ring to the right for forward slow motion, or to the left for reverse slow motion (refer to the illustration to the left).

OR

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

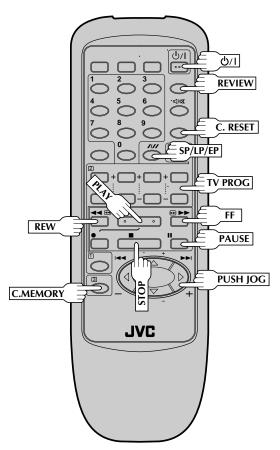
OR

During still picture, press and hold $\textbf{PUSH JOG} \lhd \text{or} \triangleright$. Release to return to still picture.

To resume normal playback, press PLAY.

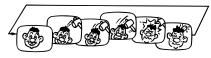
PLAYBACK (cont.)

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Repeat Playback

Your video recorder can automatically play back the whole tape 20 times repeatedly.



START PLAYBACK Press **PLAY**.

ACTIVATE REPEAT PLAYBACK

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

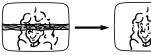
- The Play indicator (>) on the display panel blinks slowly.
- The tape plays 20 times automatically, and then stops.

STOP PLAYBACK

Press STOP at any time to stop playback.

Manual Tracking

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



OVERRIDE AUTOMATIC

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.

Wide Quality

Use this function to improve image contrast which tends to degrade especially with wide-screen TVs.

AC Duri

ACTIVATE WIDE QUALITY

During playback, press $\ensuremath{\textbf{WIDE}}\xspace$ QUALITY on the recorder.

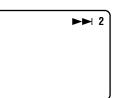
- The button will light up.
- Pressing the button again turns off the light.
- Turn on/off the light according to the type of playback picture you want.
- The setting will remain effective even though you turn on/off the recorder.
- This function is also effective with large-screen 4:3 aspect ratio TVs as well.

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

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Index Search

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



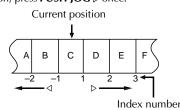
NOTE:

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

ACTIVATE INDEX SEARCH

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

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



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

Instant ReView

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

NOTE:

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

ACTIVATE INSTANT REVIEW

Press **REVIEW**. The recorder power comes on and the recorder searches for the index code indicating the start of the last timer-recorded programme. Once it's found, playback begins automatically. The front display panel tells you how many programmes have been recorded. If you have, for example, 3

programmes, "REVIEW" and "3" appear and blink. To watch the first of the 3 programmes, press **REVIEW** <u>three</u> <u>times</u>. The recorder searches and begins playback automatically. You can access a programme as far as 9 index codes away from the current tape position.

NOTE:

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

Next Function Memory

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

For Automatic Power Off After Tape Rewind . . .

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

NOTE:

If you want the power to be turned off automatically when the counter reads "0:00:00" (instead of at the beginning of the tape), press **C. MEMORY** so that the "M" mark appears before pressing **REW**.

Counter Memory

Returns to the counter reading of "0:00:00" to conveniently find a specific place on the tape automatically.



ACTIVATE COUNTER MEMORY



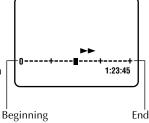
When you wish to return to the designated point, press **STOP** and then **REW** or **FF**.

- The tape rewinds or fast-forwards and stops at about 0:00:00 automatically.
- To cancel Counter Memory, press C. MEMORY again.

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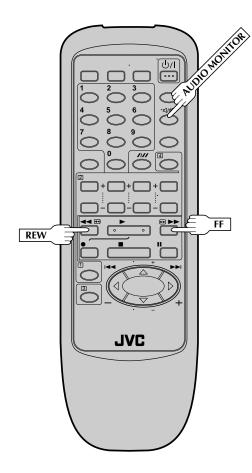


The tape position indicator appears on screen when, from the Stop mode, you press **FF**, **REW** or perform an Index Search. The position of "■" in relation to "0" (beginning) or "+" (end) shows you where you are on the tape. "O.S.D." (III pg. 9) must be set to "ON", or the indicator will not appear.



NOTE:

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



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 MONITOR on the recorder (or \mathbf{A}/\mathbf{A} /on the remote control) changes the soundtrack being played back as follows:

TRA	NCK	1.65	
Recorder's Front Panel	On-Screen Display	USE	
L + R	HIFI LD⊅ ⊄0R	For Hi-Fi stereo tapes	
L	HIFI L D	For main audio of Bilingual tapes	
R	HI FI ଐ R	For sub audio of Bilingual tapes	
NORM	NORM	For audio-dubbed tapes	
L + R + NORM	HI FI NORM	For audio-dubbed tapes	

NOTES:

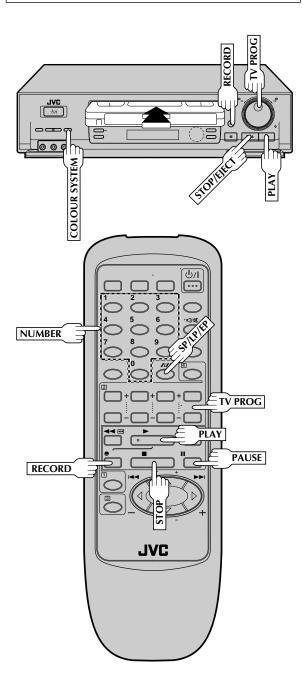
- "L + R" should normally be selected. In this mode, Hi-Fi stereo tapes are played back in stereo, and the NORM track is played back automatically for tapes with only normal audio.
- For instructions on recording stereo and bilingual programmes, refer to page 17.
- "O.S.D." must be set to "ON" or the on-screen displays will not appear (LT pg. 9).

RECORDING

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Basic Recording

- Turn on the TV and select the VIDEO channel (or AV mode).
- Press **VCR** on the remote control to select the VCR 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.(III) pg. 26)

CHOOSE A PROGRAMME

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

• The TV PROG dial can also be used to select a channel.

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 (\square pg. 18).

PAUSE/RESUME RECORDING

Press PAUSE. Press PLAY to resume recording.

STOP RECORDING

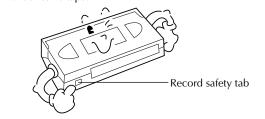
Press **STOP** on the remote control or **STOP/EJECT** on the recorder. Then press **STOP/EJECT** to remove the cassette.

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.

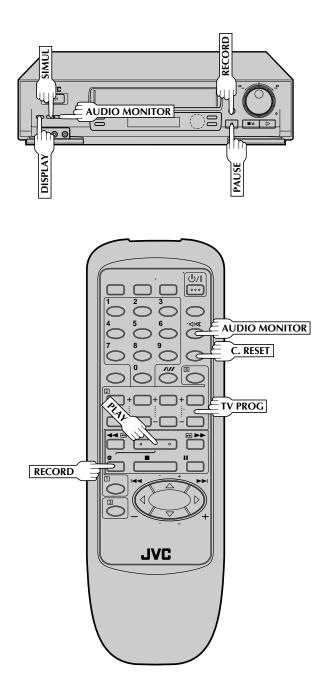
Accidental erasure prevention

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



$16_{\scriptscriptstyle EN}$

Recording Features



Record One Programme While Watching Another

SELECT CHANNEL TO WATCH

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

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

Elapsed Recording Time Indication

You can check the exact time of a recording.

SET COUNTER DISPLAY

 $\ensuremath{\mathsf{Press}}$ $\ensuremath{\mathsf{DISPLAY}}$ until a counter reading appears on the dispay panel.

By pressing the **DISPLAY** button, you can change the display to show the counter reading, channel position* or clock time.
 * channel position is not displayed during playback.

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 $\ensuremath{\mathsf{RECORD}}$ on the recorder.

ENGAGE ITR MODE

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

SET RECORDING DURATION

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

NOTE:

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



Receiving Stereo And Bilingual Programmes (HR-J747MS only)

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	On-screen
Being Received	Display
A2 (GERMAN) Stereo	ST
A2 (GERMAN) Bilingual	BIL
Regular Monaural	(none)
NICAM Stereo	ST NICAM
NICAM Bilingual	BIL NICAM
NICAM Monaural	NICAM

• To listen to a stereo programme, press **AUDIO MONITOR** on the recorder (or ◀/◀◀ on the remote control) until "L" and "R" appear on the front display panel.

- To listen to a bilingual programme, press AUDIO MONITOR on the recorder (or ⊄/i¾ on the remote control) until either "L" or "R" appears on the front display panel (as required).
- To listen to the Standard (regular monaural) audio while receiving a NICAM broadcast, press **AUDIO MONITOR** on the recorder (or **⊲**/**∢** on the remote control) until "NORM" appears on the front display panel.

NOTE:

"O.S.D." must be set to "ON" or the on-screen displays will not appear (III pg. 9).

To Record Stereo And Bilingual Programmes (A2) (HR-J747MS only)

- 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 (HR-J747MS only)

• 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.

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).



CHOOSE FM BROADCAST

Set the FM tuner to the desired broadcast.

SELECT TV PROGRAMME

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

ENGAGE SIMULCAST

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.

$18_{\scriptscriptstyle EN}$

RECORDING (cont.)

B.E.S.T. Picture System

Turn on the TV and select the VIDEO channel (or AV mode). JVC 000 RECORD <u>ს</u>/I 000 ⊲/¢ RECORD MENU PUSH JOG OK JVC

Display Panel Indication



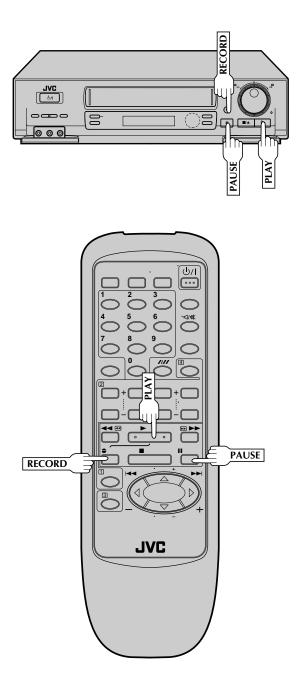
As the tape check progresses, the "--" marks on the display panel increase upward. Once the "BEST" indicator starts blinking, the check is complete.

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".

Recording LOAD A CASSETTE Insert a cassette with the record safety tab intact. • The recorder power comes on automatically. ACCESS MAIN MENU SCREEN Press **MENU** twice. ACCESS FUNCTION SET SCREEN Place the pointer next to MAIN MENU "FUNCTION SET" by pressing **PUSH JOG** $\triangle \nabla$, **FUNCTION SET** then press OK. TUNER SET **INITIAL SET** [▲/▼] → ©R [Menu] : exit ACCESS B.E.S.T. SCREEN Place the pointer next to FUNCTION SET "B.E.S.T." by pressing AUTO TIMER **PUSH JOG** $\Delta \nabla$, then press 0.S.D. B.E.S.T. OK. [▲/▼] → ©® [Menu] : exit SELECT MODE Place the pointer next to B.E.S.T. "ON" by pressing PUSH **FON JOG** $\triangle \nabla$, then press **OK**. OFF $[\blacktriangle/ \bigtriangledown] \rightarrow \bigcirc \land$ [menu] : exit **RETURN TO NORMAL SCREEN** Press MENU. bSTART RECORDING Press and hold **RECORD** and **PLAY** on the remote, or press **RECORD** on the recorder. • The recorder spends approximately 7 seconds assessing the condition of the tape, then begins recording. • When the "BEST" indicator begins blinking, that means adjustment is complete. Pressing the recorder's RECORD button while "BEST"

 Pressing the recorder's **RECORD** button while "BEST is displayed does not start Instant Timer Recording (ICF pg. 16).





NOTES:

- The B.E.S.T. system works for 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.

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 **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 5 on page 18.

Playback

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

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.



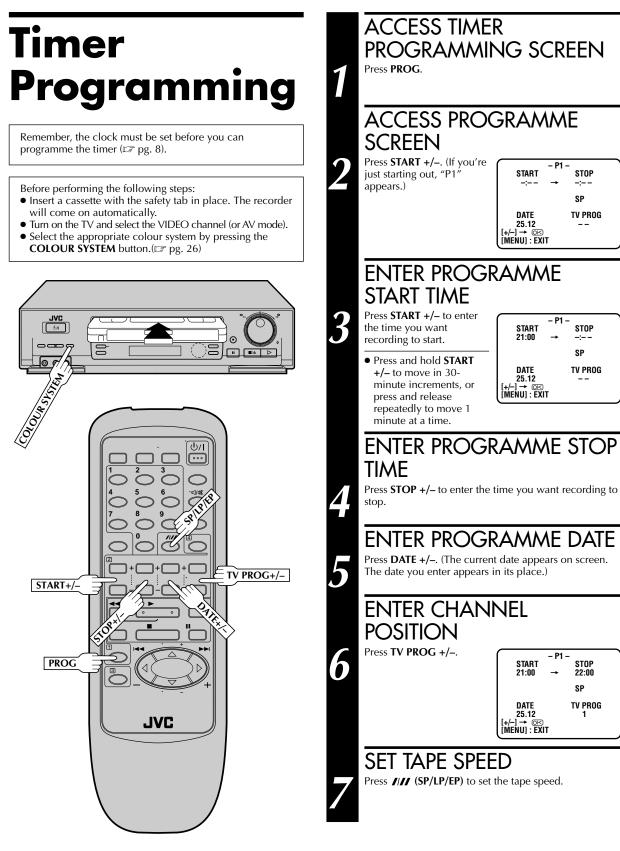
- The recorder adjusts the playback picture quality based on the quality of the tape in use.
- B.E.S.T. is active during Auto Tracking. "BEST" appears blinking on the recorder's display panel.

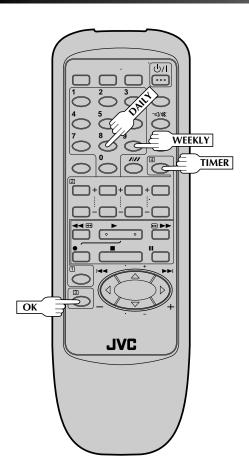
NOTES:

- When watching a 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 **2** through **6** on page 18.
- "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.

$20_{\scriptscriptstyle EN}$

TIMER RECORDING





RETURN TO NORMAL SCREEN

After confirming all information is correct, press **OK** and the normal screen appears.

• Repeat steps **1–8** for each additional programme.

ENGAGE RECORDER'S TIMER MODE



8

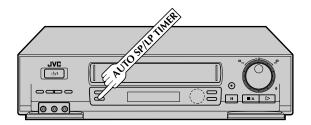
Press TIMER. The recorder turns off automatically.

To Timer-Record Weekly Or Daily Serials . . .

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

NOTE:

You can programme this recorder to timer-record as many as 8 programmes. If you try to programme the recorder to record a ninth, "PROGRAM FULL" appears on screen. To record the extra programme, you must first cancel any unnecessary programmes (CF pg. 22).



NOTES:

- 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 as well as some tapes of shorter lenghs.
- Even if, in step 1, you press AUTO SP/LP TIMER and it lights up, that doesn't mean that the recorder will automatically change from SP to LP (or EP) mode during the course of the recording. Watch the tape later to confirm.
- If you have programmed the recorder to timer-record 2 or more programs, the second programme and those thereafter may not fit on the tape if you engage the Auto SP/LP Timer mode. In this case, make sure the mode is not engaged, then set the tape speed manually during timer programming.
- There may be some noise at the point on the tape where the recorder switches from SP to LP (or EP) mode.

Auto SP/LP Timer

If, when 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.

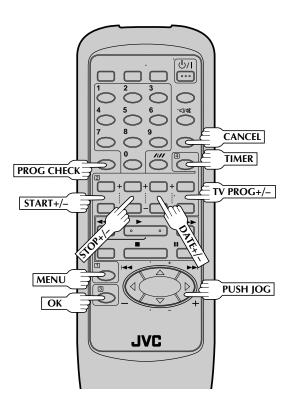
ENGAGE AUTO SP/LP
TIMER
Press AUTO SP/LP TIMER on the recorder front panel.
The button lights up.

For Example . . .

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

Approximately 150 minutes	Approximately 60 minutes			
SP mode	LP mode			
Total 210 minutes				

After the recorder's Timer mode is engaged, make sure the AUTO SP/LP TIMER button is still lit; if not, press AUTO SP/LP TIMER so that the button lights.



Check And Cancel Programmes

ACCESS PROGRAMME SCREEN

Press PROG CHECK.

- If the recorder is turned on and the TV is set to its VIDEO channel or AV mode, you can check program information on screen.
- Each time you press **PROG CHECK**, the next programme's information appears.

If All Information Is Correct . . .

... programming is completed.

If You Wish To Revise Data . . .

... with the recorder's power turned on, go to step 2. I(X) = M(x) + T

If You Wish To Cancel A Program . . .

... with the recorder's power turned on, press **CANCEL**. All information you input is deleted.

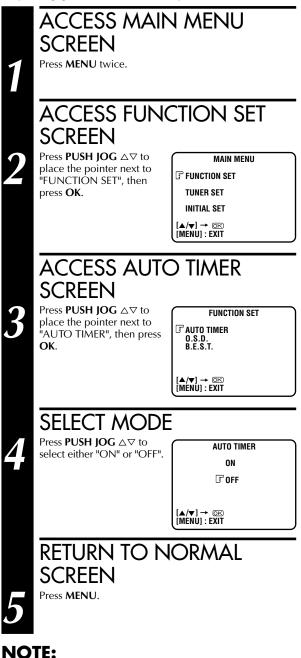
REVISE PROGRAMME

Input the appropriate data using the **START +/-, STOP +/-, DATE +/-** and **TV PROG +/-** buttons on the remote control.

TIMER RECORDING (cont.)

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.



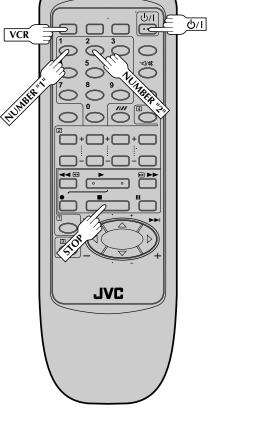
For safety, when Auto timer is set to "OFF", all other recorder functions are disabled while the Timer mode is engaged. To disengage the timer, press **TIMER**.





Control Two JVC VCRs

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



UNPLUG VCR'S POWER

Unplug from the AC outlet.

SET REMOTE CONTROL CODE

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

PLUG IN POWER CORD

Plug back in to the AC outlet.

TURN VCR POWER ON

Press 山/I on the remote.

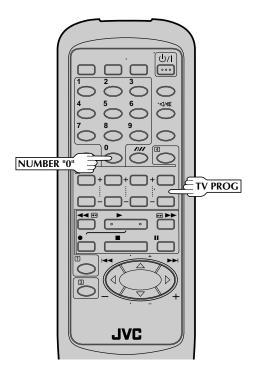
The VCR will now respond only to B-code commands. To set the VCR back to respond to A code signals, repeat the same procedure as shown above except pressing **NUMBER** key "1" instead of "2" in step **2**.

You can control two VCRs with the same remote control by switching the remote's code between A and B.

$24_{\rm EN}$

EDITING

Edit To Or From Another Video Recorder



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

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 — "AU" for the rear panel VIDEO/AUDIO input connectors, or "F-AU" for the front panel VIDEO/AUDIO input connectors.

START SOURCE PLAYER

Engage its Play mode.

START RECORDING DECK

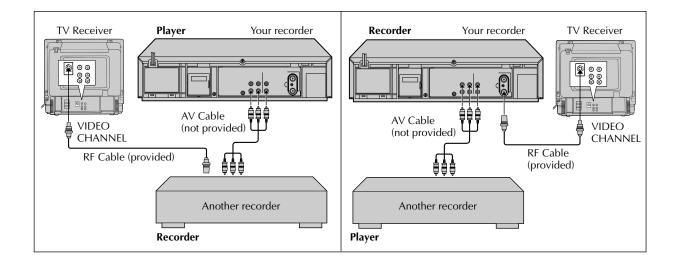
Engage its Record mode.

NOTES:

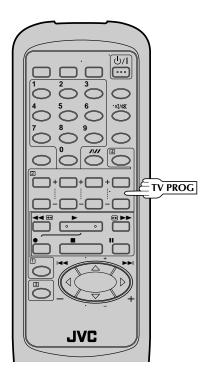
- All necessary cables can be obtained from your dealer.
- NTSC tapes being played back in the NTSC → PAL mode (t= p. 27) cannot be dubbed to another recorder.
- When you dub an NTSC tape using your recorder as the playback deck, select NTSC 3.58 (or NTSC 4.43) with the **COLOUR SYSTEM** button. (17 p. 26)

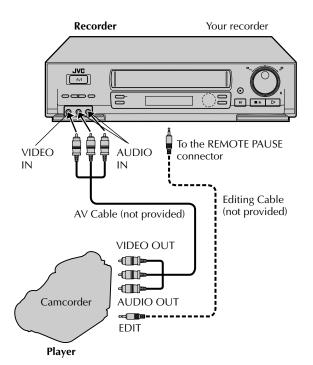
IMPORTANT:

- 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, IF pg. 26.



Edit From A Camcorder





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

MAKE CONNECTIONS

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 MODE

Press ${\bf TV}$ ${\bf PROG}$ so that "F-AU" appears on the display panel.

START CAMCORDER

Engage its Play mode.

START RECORDER

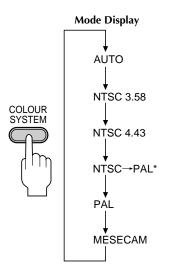
Engage its Record mode.

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 and SECAM camcorders can be used as a player for editing.
- For more information on multi-system compatibility, IF pg. 26.



Setting Of The Colour System Select Buttons



* "NTSC → PAL" appears during playback only.

Use the **COLOUR SYSTEM** button on the recorder's 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.

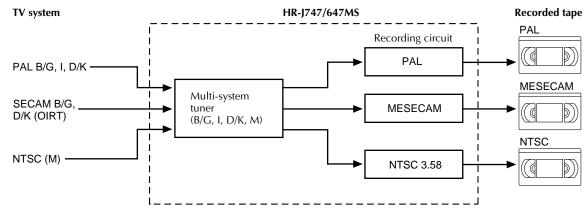
Mode	Description
AUTO	Usually set to this mode. This mode automatically detects PAL, NTSC, SECAM or MESECAM and adjusts to the colour system being recorded or played back. When it does not perform properly, set the colour system manually.
MANUAL	For recording, there is a choice of 4 selectable modes; 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 the 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.



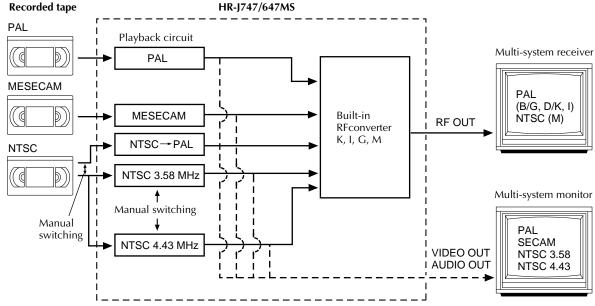
NOTE:

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



Playback

This recorder can play back all 3 types of recorded tape.



NOTES:

When viewing NTSC tapes on a PAL TV set:

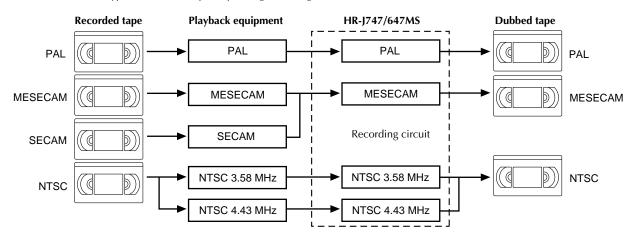
- The picture may shrink vertically with black bars appearing at the top and bottom of the screen. This is not a malfunction on the part of the video recorder nor the TV.
- The picture may roll up or down. This can be corrected using the V-HOLD control found on some TVs. (This cannot be corrected if 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

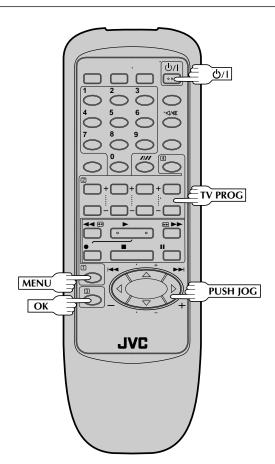
There are 4 different types of recorded tape, depending on the signal recorded.



28 en

TUNER SET





IMPORTANT

Perform the following steps only if auto channel set has not been set correctly by Auto Set Up function (IF pg. 4) 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.

TURN ON THE RECORDER

ACCESS MAIN MENU

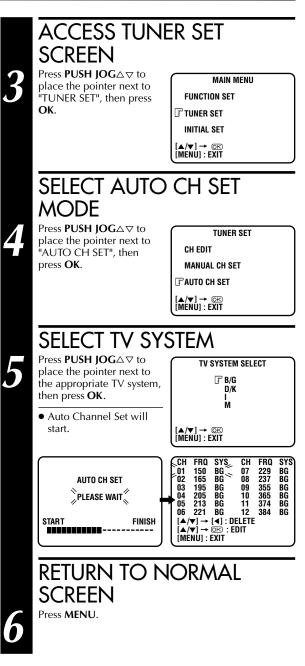
Auto Channel Set



SCREEN

Press MENU twice.

Press 也/I.



IMPORTANT

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

Manual Channel Set

Store channels that were not stored during Auto Set Up (pg. 4) or Auto Channel Set (EF pg. 28).

ACCESS TUNER SET SCREEN

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

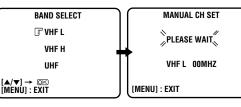
ACCESS MANUAL CH SET **SCREEN**



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

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. To store the detected station, place the pointer next to "STORE" by pressing **PUSH JOG** $\triangle \nabla$, then press **OK**. If you do not want to store the

STORE
CONTINUE
[▲/▼] → ©K
[MENU] : EXIT

station, press **PUSH JOG** riangle
abla to place the pointer next to "CONTINUE", then press OK. Channel search will resume.

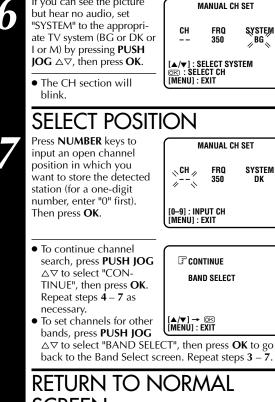
• The blueback screen and the TV picture currently being broadcast appear alternately for 8 seconds each.

PERFORM TUNING

- For fine tuning adjustment, press PUSH JOG △▽ until the picture becomes clearer, then press OK.
- MANUAL CH SET CH
- The SYSTEM section will blink.







SELECT TV SYSTEM

If you can see the picture

EN

MANUAL CH SET

SCREEN

Press MENU.

Delete A Channel

ACCESS TUNER SET **SCREEN**

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

ACCESS CHANNEL LIST

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

SELECT CHANNEL

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

_					
(CH	FRQ	SYS,	СН	FRQ	SYS
<u>)</u> 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
[▲/	▼] →	[◀] : DI	ELETE		
ÎMÊNÛ] : EXIT					
Ċ					_

DELETE CHANNEL

P	ress⊲.
•	To re-store it, simply
	press ⊳.
•	Repeat steps $3 - 4$ as

	[▲/		[▶]:A		
as	05 06	213 221	BG BG	11 12	374 384
	04	205	BG	10	365
••	03	195	BG	09	355
ly	02	165	BG	08	237
	- [01			07	229

CH FRQ SYS CH FRQ

SYS BG BG BG BG

BG BG

RETURN TO NORMAL SCREEN

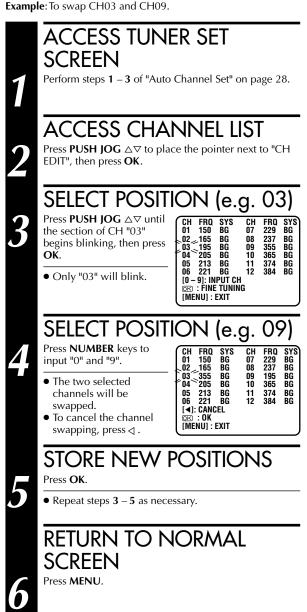
Press MENU.

necessary.

Swap Channel Positions

TUNER SET (cont.

Example: To swap CH03 and CH09.





Fine-Tuning Channels

ACCESS TUNER SET SCREEN

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

ACCESS CHANNEL LIST

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

SELECT CHANNEL TO FINE-TUNE

Press **PUSH JOG** $\triangle \bigtriangledown$ until the channel you want to tune begins blinking, then press **OK** twice.

• The "FRQ" number for

that channel starts blinking.

PERFORM TUNING

Press PUSH JOG $\bigtriangleup \bigtriangledown$ until the picture becomes clearer, then press OK.

• Repeat steps 3 and 4.

RETURN TO NORMAL SCREEN

Press MENU.

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



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

ACCESS CHANNEL LIST

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

SELECT CHANNEL

Press **PUSH JOG** $\triangle \nabla$ until the channel you want to change its TV system begins blinking, then press **OK** three times.

3

Δ

_					
(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
[▲/		ELECT	SYSTE	м	
0K)	: OK				
[MENU] : EXIT					
L					

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

SELECT TV SYSTEM

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

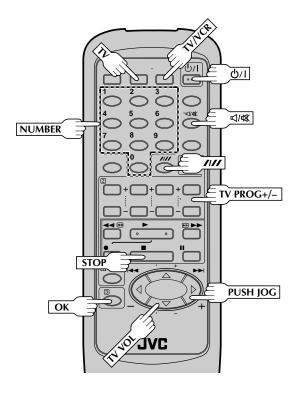
• Repeat steps **3** and **4** as necessary.

RETURN TO NORMAL SCREEN Press MENU.

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REMOTE CONTROL

Multi-Brand Remote Control



TV BRAND NAME	CODE
JVC	01
PANASONIC	02
SONY	03
SHARP	04
TOSHIBA	05
CHANGHONG	05, 06, 16, 25
BEIJING	05, 27
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MIVER	19
FINLUX	20
NOKIA	21
NEC	22
JINXING	23
PEONY	23,24,25
KONKA	26
NOBLEX	27

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 by setting the appropriate switch on the remote control.

Before you start, turn on the TV using its remote control.

NOTE:

If your TV is a JVC, you don't have to set the code in step 1. Go to step 2.

SET TV BRAND CODE

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

• You don't have to repeat this step until you replace your remote control's batteries.

TRY OPERATING TV

Press \oplus /I on the remote to turn the TV off. If it goes off, try other operations.

- The U/I button, TV/VCR button, TV PROG +/button, TV VOL +/- (or △/▽) button and ☑/¾ (MUTE) button on the remote can all be used to operate the TV.
- To operate the TV, press **TV** to set the remote control to the TV mode.
- To return the remote to video recorder control, press **VCR** to set the remote control back to the VCR mode.

IMPORTANT

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

Control Your TV Using Additional Buttons

The **NUMBER** keys on the remote can also be used to select the TV's channel by setting the remote control to the TV mode.

- 1 Press TV.
- 2 Use the **NUMBER** keys, and the **DIGIT ENTRY** (**///**) button, the **PUSH JOG** button or the **OK** button to select the TV's channel.
- With televisions under Code 01, 02, 03, 05, 07, 15, 16 22, 23, 26 or 27, the **DIGIT ENTRY** button corresponds to the 1-digit/2-digit entry switching button (often labelled /- –) of your TV's remote control.
- With televisions under Code 01, 06, 08, 18, 19, 24 or 25, the PUSH JOG ⊲ button corresponds to the 10 + button, and the PUSH JOG ▷ button corresponds to the 20 + button of your TV's remote control.
- With televisions using Code 03, the OK button corresponds to the ENTER 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.

TROUBLESHOOTING



Before requesting service for a problem, use this chart and see if you can repair the trouble yourself. Small problems are often easily corrected, and this can save you the trouble of sending your video recorder off for repair.

POWER		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
1. No power is applied to the recorder.	• The mains power cord is discon- nected.	Connect the mains power cord.
2. The clock is functioning properly, but the recorder cannot be powered.	• "O" is displayed on the display panel with Auto Timer set to "OFF".	Press the TIMER button to turn the "O" indicator off.
3. The remote control won't function.	 The batteries are discharged. The remote control is set to the wrong code. The remote control is set to the wrong operating mode. 	Replace the dead batteries with new ones. Re-perform the A/B Code setting (IF) pg. 23). Press the appropriate button (TV or VCR) depending on the unit you want to operate. (IF) pg. 32)
TAPE TRANSPORT		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
1. The tape does not run during recording.	• "D" is displayed on the display panel.	Press PLAY to turn the "D" indicator off.
2. The tape stops during rewind or fast-forward.	• "M" is displayed on the display panel.	Press C.MEMORY to deactivate the Counter Memory function and turn the "M" indicator off.
3. The tape will not rewind or fast-forward.	• The tape is already fully rewound or fast-forwarded.	Check the cassette.
PLAYBACK		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
 The playback picture does not appear while the tape is running. 	 If you're using the RF OUT connection the TV receiver's channel selector is not set to the VIDEO channel the recorder's VIDEO channel has not been correctly set. If you're using the AV connection, the TV receiver is not set to the AV mode. 	If you are using the RF OUT connec- tion set the TV receiver to the VIDEO channel. (IP pg. 5) Perform "Video Channel Set" (IP pg. 5) If you are using the AV connection, set the TV to its AV mode.
2. Noise appears during visual search.	• This is normal.	
3. Noise appears during normal playback.	 The automatic tracking mode is engaged. 	Try manual tracking. (🖙 pg. 12)
4. Noise appears during slow-motion playback.	 The automatic tracking mode is engaged. 	Try manual tracking. (🖙 pg. 12)
5. Noise appears during still play- back.		Press TV PROG + 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. (☞ pg. 12)
7. The playback picture is blurred or interrupted while TV broadcasts are clear.	• The video heads may be dirty.	Consult your JVC dealer.
8. Playback picture has a loss of colour.	The wrong colour system is selected for the tape being played back.The wrong colour system was selected during recording.	Select the correct colour system by pressing the COLOUR SYSTEM button. (IP pg. 26) Once recorded, the signal cannot be corrected. Be sure to choose the correct setting before recording.
No sound accompanies the playback picture.	• The TV system you have selected at the TV System Select screen is incorrect.	Set it to the correct position for the TV broadcast system used in your area. (IFP pg. 7.)



TROUBLESHOOTING (cont.)

RECORDING		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
1. Recording cannot be started.	• There is no cassette loaded, or the cassette loaded has had its Record Safety tab removed.	Insert a cassette, or using adhesive tape, reseal the slot where the tab was removed.
2. TV broadcasts cannot be recorded.	• "AU" has been selected as the input mode.	Set to the desired channel.
3. Tape-to-tape editing is not possible.	 The source (another video recorder, camcorder) has not been properly connected. All necessary power switches have not been turned on. The input mode is not correct. 	Confirm that the source is properly connected. Confirm that all units' power switches are turned on. Set the input mode to "AU".
4. Camcorder recording is not possible.	The camcorder has not been properly connected.The input mode is not correct.	Confirm that the camcorder is properly connected. Set the input mode to "AU".
TIMER RECORDING		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
1. Timer recording won't work.	 The clock and/or the timer have been set incorrectly. The timer is not engaged.	Re-perform the clock and/or timer settings. Press TIMER and confirm that "O" is displayed on the display panel.
2. On-screen timer programming is not possible.	• Timer recording is in progress.	Timer programming can't be performed while a timer recording is in progress. Wait until it finishes.
3. "O" and "OD" 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.
 The cassette is automatically ejected, and "℗" and "℗" on the display panel won't stop blinking. 	• The loaded cassette has had its Record Safety tab removed.	Remove the cassette and cover the hole with adhesive tape, or insert a cassette with the Record Safety tab intact.
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 re- program as necessary, then press TIMER again.
6. The cassette is automatically ejected, the power shuts off and "O" and "OO" 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.

OTHER PROBLEMS		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
 Whistling or howling is heard from the TV during camcorder record- ing. 	The camcorder's microphone is too close to the TV.The TV's volume is too high.	Position the camcorder so its microphone is away from the TV. Turn the TV's volume down.
2. When scanning channels, some of them are skipped over.	• Those channels have been desig- nated to be skipped.	If you need the skipped channels, restore them (127 pg. 29).
3. The channel cannot be changed.	• Recording is in progress.	Press PAUSE to pause the recording, change channels, then press PLAY to resume recording.
 Channel settings that were made manually seem to have changed or disappeared. 	• After the manual settings were made, Auto Channel Set was performed.	Perform manual setting again.
5. No channels are stored in the recorder's memory.	• 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 (\mathbb{T} pg. 4).
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. (IF pg. 5)

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QUESTIONS AND ANSWERS

PLAYBACK

Q. What happens if the end of the tape is reached during playback or search?A. The tape is automatically rewound to the beginning.	Q. When I p of the rec the begin does this
Q. Can the video recorder indefinitely remain in the still mode?	A. This is no resume p
A. No. It stops automatically after 5 minutes to protect the heads.	Q. Can the v Record-P
Q. During search, slow, still and frame-by-frame playback, I can't hear any audio. What's the problem?	A. No. The v matically
A. This is normal.	Q. What hap A. The video beginning
Q. When returning from multi-speed search to normal playback, the picture is disturbed. Should I be concerned about this?	TIMER RECO
A. No, it is normal.	Q. " ○ " and there a p
Q. Noise bars appear during multi-speed search. What's the problem?A. This is normal.	A. No. This i progress.
 Q. Other than preventing further recording, what effect does removing the Record Safety tab have? A. It disables marking of index codes. 	Q. Can I pro or a TV b A. You won't screen m you're vie
 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

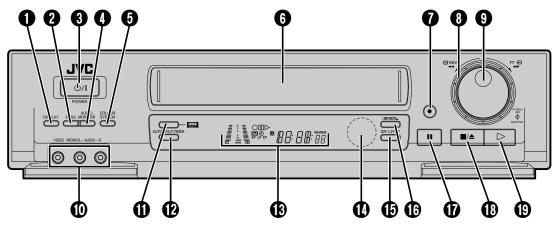
Q. When I pause and then resume a recording, the end of the recording before the pause is overlapped by the beginning of the continuation of recording. Why does this happen?A. This is normal. It reduces distortion at the pause and
resume points.
Q. Can the video recorder indefinitely remain in the Record-Pause mode?A. No. The video recorder goes to its Stop mode automatically after 5 minutes to protect the heads.
 Q. What happens if the tape runs out during recording? A. The video recorder automatically rewinds it to the beginning.
TIMER RECORDING
 Q. "○" and "②" remain lit on the display panel. Is there a problem? A. No. This is a normal condition for a timer recording in progress.
 Q. Can I program the timer while I'm watching a tape or a TV broadcast? A. You won't see the picture as it is replaced by the onscreen menu, but the audio from the program or tape you're viewing can be heard.

ATTENTION:

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

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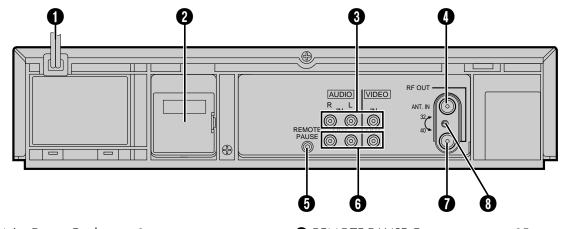
FRONT VIEW



 DISPLAY Button ☞ pg.16
 SIMUL Button ☞ pg.17
 POWER ७/I Button ☞ pg. 4
 AUDIO MONITOR Button ☞ pg.14
 COLOUR SYSTEM Button ☞ pg. 26
 Cassette Loading Slot
 RECORD Button ☞ pg. 15
 SHUTTLE Ring ☞ pg. 11
 TV PROG Dial ☞ pg. 15 JOG Dial ☞ pg. 11

REAR VIEW

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WIDE QUALITY Button pg.12
AUTO SP/LP TIMER Button pg. 21
Display Panel pg. 38
Infrared Beam Receiving Window
SP/LP/EP Button pg. 15
REVIEW Button pg. 13
PAUSE Button pg. 11
STOP/EJECT Button pg. 10
PLAY Button pg. 10



① Mains Power Cord ☞ pg. 3

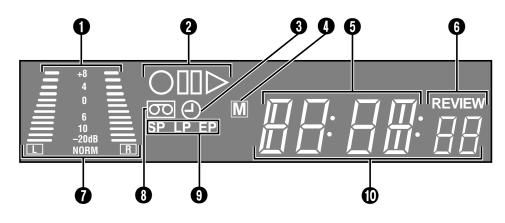
- **2** Lithium Battery Compartment **r** pg. 5
- 3 VIDEO/AUDIO Input Connectors ☞ pg. 17
- ANT. IN Connector 🖙 pg. 3

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- If Output Channel Adjustment Screw ☞ pg. 5

INDEX (cont

DISPLAY PANEL

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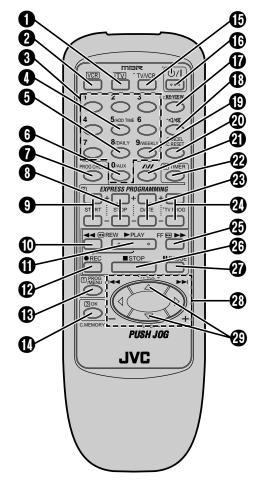
- 1 B.E.S.T. Picture System Display 🖙 pg. 18 Audio Level Indicator
- **2** Symbolic Mode Indicators

PLAY:		STILL: SLOW:	
FF/REW VARIABLE	\triangleright	RECORD:	0
SHOTTLE SLAKCH.		RECORD PAUSE:	

3 "Timer" Indicator 🖙 pg. 21

- Ounter Memory Indicator ☞ pg. 13
- *Channel position 1 will be displayed as "CH 1". Clock Display 🖙 pg. 8 Instant REVIEW Indicator 🖙 pg. 13
- 🖸 Audio Mode Indicator 🖙 pg.14
- "Cassette Loaded" Mark
- Tape Speed Indicators
 pg. 15
- Ocunter Display 🖙 pg. 16

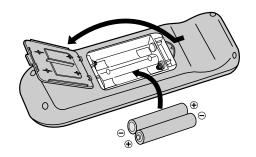
REMOTE CONTROL



- 1 TV Button 🖙 pg. 32
- 2 VCR Button ☞ pg. 15
- ③ NUMBER Keys ☞ pg. 15
- ADD TIME Button (no function with this recorder)
- DAILY Button 🖙 pg. 21
- G AUX Button ☞ pg. 24
- PROG CHECK Button 🖙 pg. 22
- 8 STOP +/− Button 🖙 pg. 20
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- Record Button P pg. 15
- PROG/MENU Button 🖙 pg. 6, 20
- OK Button I pg. 8 C. MEMORY Button I pg. 13
- **(b** TV/VCR Button \square pg. 32
- **ⓑ** POWER ⊍/I Button ☞ pg. 4
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- Pause Button 🖙 pg. 11
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- **②** TV VOL $△ \nabla$ Button 🖙 pg. 32

Installing Batteries

- 1 Open the battery compartment cover.
- Insert 2 "R6/UM-3"-size batteries (provided) in the correct directions.
- 3 Replace the cover.



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 ($\square pg$, 32).

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

NOTE:

If the remote control doesn't work properly, remove its batteries, wait a short time, replace the batteries and then try again.

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SPECIFICATIONS

Signal-to-noise ratio

Frequency range

Input/Output

Horizontal resolution

		1011
Power requirement		TV cl
Rating	: AC 110 – 240 V∼, 50/60 Hz	capa
Operating	: AC 90 – 260 V ∼, 50/60 Hz	Tunir
Power consumption	: 24 W	Chan
Temperature		
Operating	: 5°C to 40°C	
Storage	: -20°C to 60°C	Aeria
Operating position	: Horizontal only	
Dimensions (WxHxD)	: 400 x 94 x 340 mm	Mem
Weight	: 3.3 kg	
Format	: VHS standard	
Maximum recording tim	ne	
(SP)	: 240 min. with E-240 video	
	cassette (PAL/MESECAM)	ACC
	: 160 min. with T-160 video	Provi
	cassette (NTSC)	11011
(LP)	: 480 min. with E-240 video	
	cassette (PAL/MESECAM)	
(EP)	: 480 min. with T-160 video	
	cassette (NTSC)	
		*Not
VIDEO/AUDIO		
Signal system	: PAL-type colour signal and	
	CCIR monochrome signal,	Speci
	625 lines 50 fields	specit
	: NTSC colour and EIA	Desig
	monochrome signals,	
	525 lines/60 fields	
Recording system	: DA-4 (Double Azimuth)	
2 ,	head helical scan system	
C' L. ' .'		

: 45 dB

: 250 lines (PAL/MESECAM)

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

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

: 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 – 175MHz
-	(High)175 – 470MHz
	UHF 470 – 870MHz
Aerial output	: UHF channels (Adjustable
	E32 – E40)
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*
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*Not provided in certain areas.

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

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MI	:/V	IU







