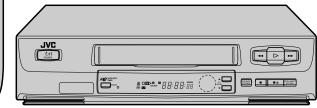
JVC



VIDEO CASSETTE RECORDER

HR-J341EM









ENGLISH

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LPT0002-0H6A

 2_{EN}

Safety Precautions

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

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

CAUTION

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

IMPORTANT

- 1.In addition to PAL B/G, D/K colour television signals, this recorder can also receive SECAM B/G, D/K colour television signals. SECAM B/G, D/K colour television signals can be recorded and played back in colour as far as this same recorder is used for recording and playback.
- 2.SECAM B/G, D/K colour television signals recorded on this recorder produce monochrome pictures if played back on another PAL or SECAM recorder.
- 3.SECAM B/G, D/K colour television signals recorded on another PAL or SECAM recorder produce monochrome pictures if played back on this recorder.
- 4. This recorder cannot be used in France. Use in France a recorder which is capable of receiving SECAM L colour television signals.
- 5.SECAM L prerecorded cassettes or recordings made with a SECAM L video recorder produce monochrome pictures when played back on this recorder.

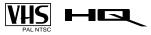
POWER SYSTEM

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. 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. DO NOT block the recorder's ventilation openings.
- 3. $\overline{\text{DO NOT}}$ 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

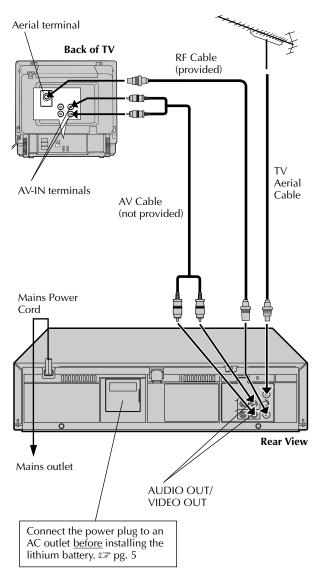
Moisture in the air will condense on the recorder when you move it from a cold place to a warm place, or under extremely humid conditions—just as water droplets form in the surface of a glass filled with cold liquid. Moisture condensation on the head drum will cause damage to the tape. In conditions 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" (🖙 pg. 34).

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.

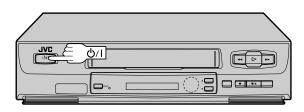
NOTE:

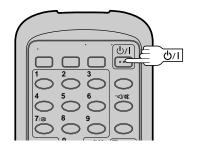
Use the conversion plug depending on the type of your AC wall outlet.

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 0/1 button on the recorder/remote control is pressed for the first time to power on the recorder \square pg. 4.



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. $\Box P$ pg. 24

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.

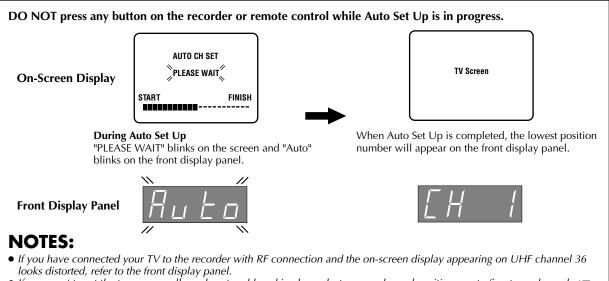
You can refer to the front display panel and/or the on-screen display to perform this procedure.

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

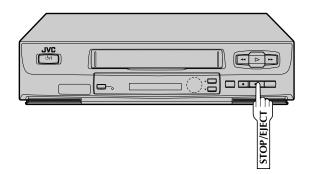


- If you want to set the tuner manually such as to add or skip channels, to swap channel positions, or to fine-tune channels, 🖙 pg. 25–27.
- If no sound accompanies the picture on some channels that have been stored by Auto Set Up, the TV system setting for those channels may be incorrect. Select the appropriate TV system for those channels. If "TV System Selection When you see the picture but hear no audio" on page 27.



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.



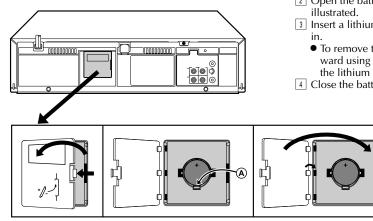
TEST SIGNAL



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

- ar enough you don't have to perform the following steps. Go to "Installing/Removing the lithium 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



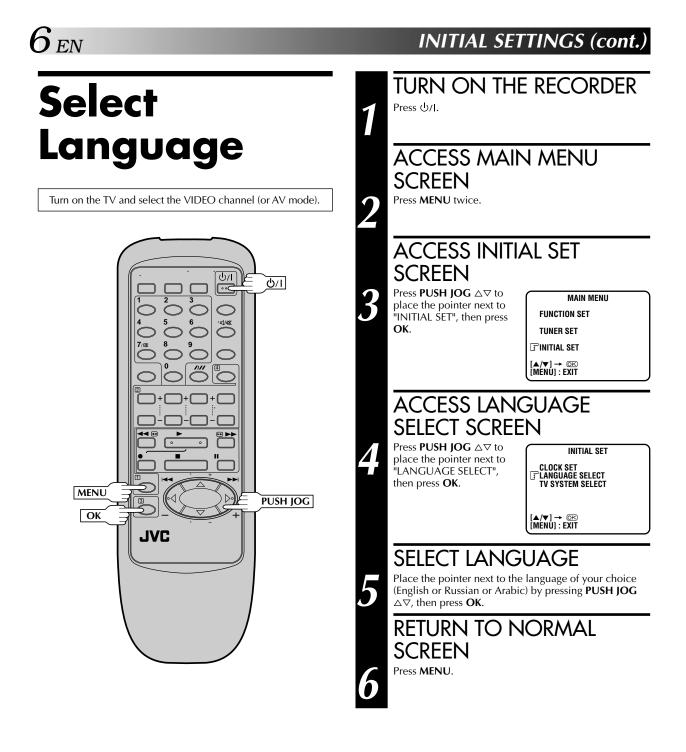
3

If not

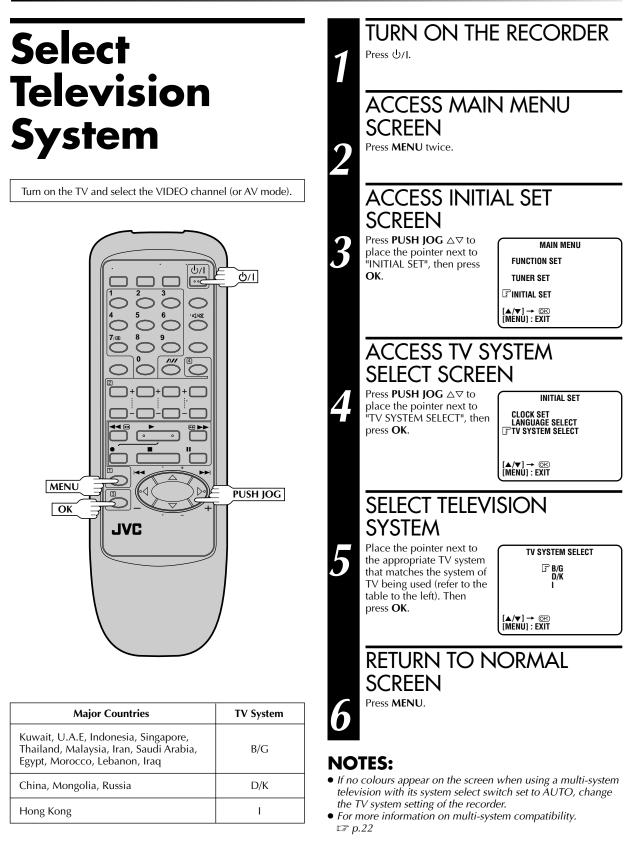
Press the recorder's **STOP/EJECT** button again to finish the setting.

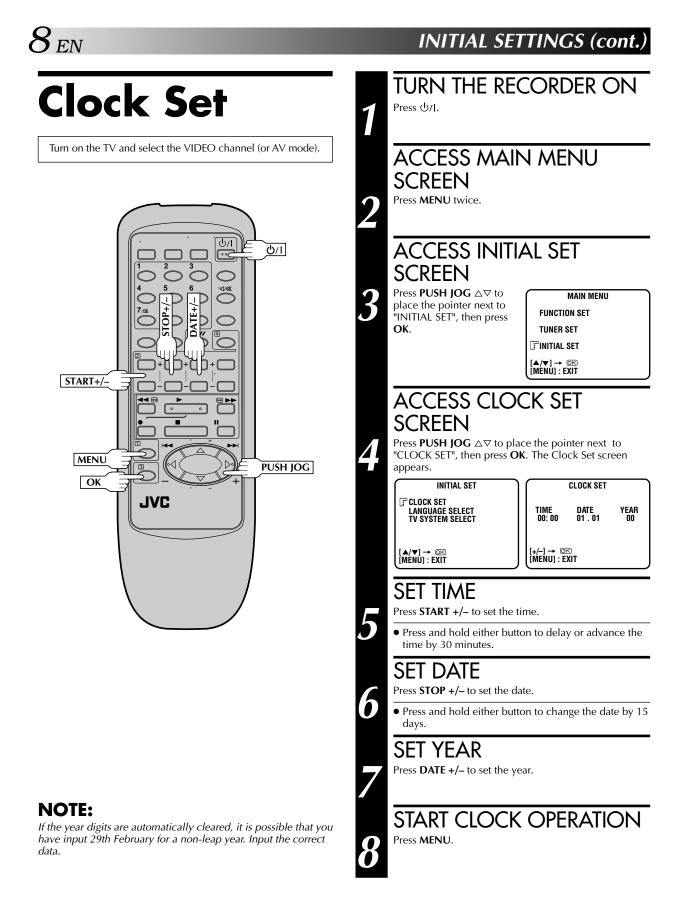
Installing/Removing the lithium battery

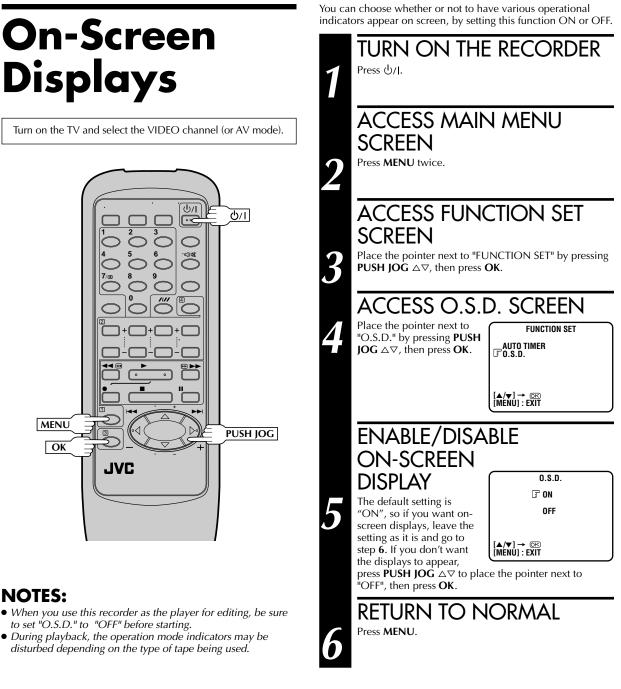
- Make sure that the power plug is connected to an AC outlet and turn off the VCR power.
- 2 Open the battery cover while pressing the release tab as illustrated.
- Insert a lithium battery with the plus (+) side up and push it in.
 - To remove the lithium battery, press the latch (A) downward using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



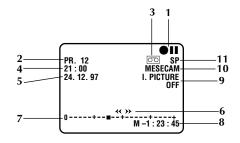
EN







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



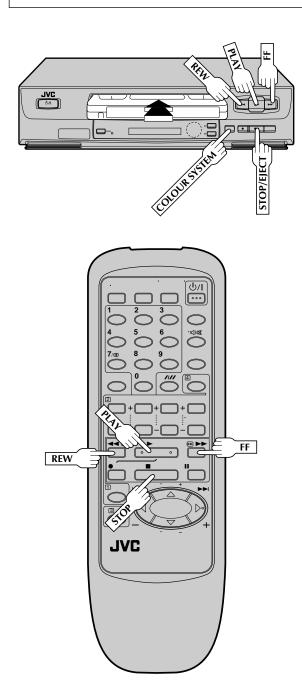
- 1- Operation mode indicators
- 2- Channel position number/Aux. indicator (AUX)
- 3- Cassette loaded mark
- 4– Clock display
- 5- Current day/month/year
- 6– Tape direction
- 7- Tape position indicator (CF pg. 13)
- 8- Counter display (including Counter Memory indicator)
- 9- Intelligent picture indicator (CP pg. 12)
- 10- Colour system indicator (IF pg. 22)
- 11- Tape speed SP/LP/EP

10_{EN}

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.(IP pg. 22)
- 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 $\ensuremath{\textit{REW}}.$ To go forward, press $\ensuremath{\textit{FF}}.$

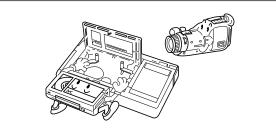
START PLAYBACK



STOP PLAYBACK

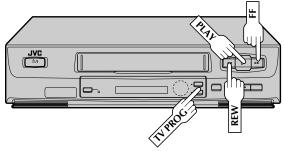
Press **STOP** on the remote or **STOP/EJECT** on the recorder's front panel. Then press **STOP/EJECT** to remove the cassette.

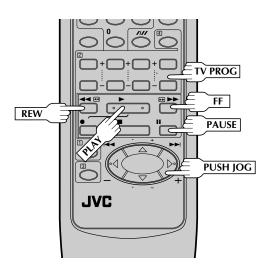
Usable cassettes



- 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**





Variable-Speed Search

ACTIVATE VARIABLE-SPEED SFARCH

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.

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

High-Speed Search



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

To resume normal playback, press PLAY.

Still Picture/Frame-By-Frame Playback

PAUSE DURING PLAYBACK



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

ACTIVATE FRAME-BY-FRAME PLAYBACK



Press PAUSE. OR

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

To resume normal playback, press PLAY.

Slow Motion



ACTIVATE SLOW-MOTION PLAYBACK

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

OR

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

To resume normal playback, press PLAY.



- For short searches, during playback or still, 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 will be distorted, and there may be a loss of colour; with SP recordings, noise may also appear in the picture.

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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.

NOTE:

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

Intelligent Picture

To get a better picture when viewing tapes with noise such as rental tapes. Useful for normal playback of SP-mode recorded tapes as well.

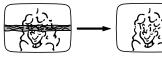
ACTIVATE INTELLIGENT PICTURE

During playback or stop, press INTELLIGENT PICTURE.

- Pressing the **INTELLIGENT PICTURE** button once displays the current setting on the screen for about 5 seconds; press the button again to change the setting (ON/OFF).
- Intelligent Picture is not effective during search, slow, still, or frame-by-frame playback.

Manual Tracking

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



OVERRIDE AUTOMATIC TRACKING

Press the recorder's **TV PROG** \blacktriangle and \checkmark buttons simultaneously to engage manual tracking.

ADJUST TRACKING MANUALLY



Press **TV PROG** ▲ or ▼ to adjust tracking.

RETURN TO AUTOMATIC TRACKING



Press the recorder's **TV PROG** \blacktriangle and \blacktriangledown buttons simultaneously to re-engage automatic tracking.

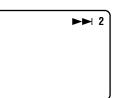
NOTE:

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

 $_{EN} 13$

Index Search

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



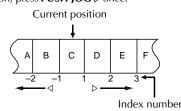
NOTE:

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

ACTIVATE INDEX SEARCH

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

SET COUNTER MEMORY Press C. RESET during playback at a point you wish to locate later. The counter reads "0:00:00". Then press C. MEMORY, and "M" appears in front of the counter digits.

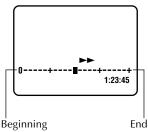
ACTIVATE COUNTER MEMORY

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.

Tape Position Indicator

The tape position indicator appears on screen when, from the Stop mode, you press **FF**, **REW** or perform an Index Search. The position of "■" in relation to "0" (beginning) or "+" (end) shows you where you are on the tape. "O.S.D." (*IF* pg. 9) must be set to "ON", or the indicator



NOTE:

will not appear.

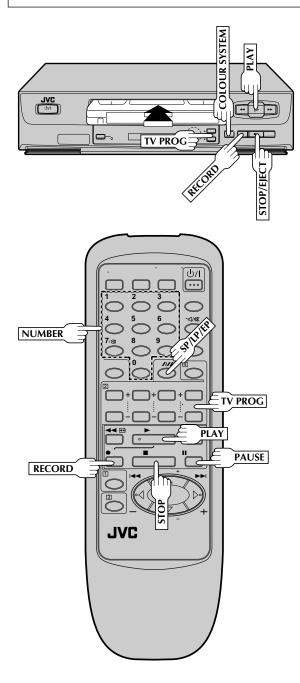
Depending on the type of tape used, there may be times when the indication is not correct.

RECORDING

Basic Recording

 14_{EN}

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



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

LOAD A CASSETTE

Insert a cassette with the record safety tab intact.

- The counter is reset to 0:00:00 and the recorder power comes on automatically.
- Select the appropriate colour system by pressing the **COLOUR SYSTEM** button.(III) pg. 22)

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.

PAUSE/RESUME RECORDING

Press PAUSE. Press PLAY to resume recording.

STOP RECORDING

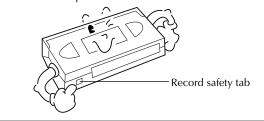
Press **STOP** on the remote control or **STOP/EJECT** on the recorder. Then press **STOP/EJECT** to remove the cassette.

Recording Resume Function

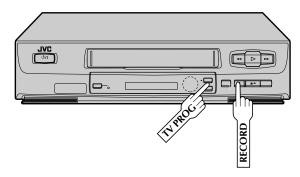
If there is a power outage during recording (or Instant Timer Recording or timer recording), the recording will resume automatically when power is restored to the recorder unless the recorder's memory backup has expired.

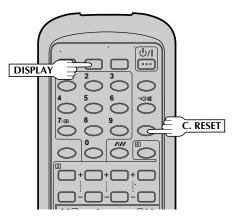
Accidental erasure prevention

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



Recording Features





Usable Cassettes And Their Recording Times

This video recorder can record on regular VHS and Super VHS cassettes. However, it will record and play back regular VHS video signals only. It is not possible to play back a recorded Super VHS tape.

Type of Cassette	Recording/Playback Time (minutes)		Recording/Playback System	
Casselle	SP Speed	LP Speed	System	
E-240	240	480	PAL/MESECAM	
E-180	180	360	PAL/MESECAM	
E-120	120	240	PAL/MESECAM	
E-90	90	180	PAL/MESECAM	
E-60	60	120	PAL/MESECAM	
E-30	30	60	PAL/MESECAM	
Type of Cassette	Recording/Playback Time (minutes)		Recording/Playback System	
Casselle	SP Speed	EP Speed	System	
T-160	160	480	NTSC	
T-120	120	360	NTSC	
T-90	90	270	NTSC	
T-60	60	180	NTSC	
T-30	30	90	NTSC	

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 recorder's **TV PROG** buttons is recorded on the tape.

Elapsed Recording Time Indication

You can check the exact time of a recording.



* 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 **RECORD** on the recorder.

ENGAGE ITR MODE

2

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

SET RECORDING DURATION

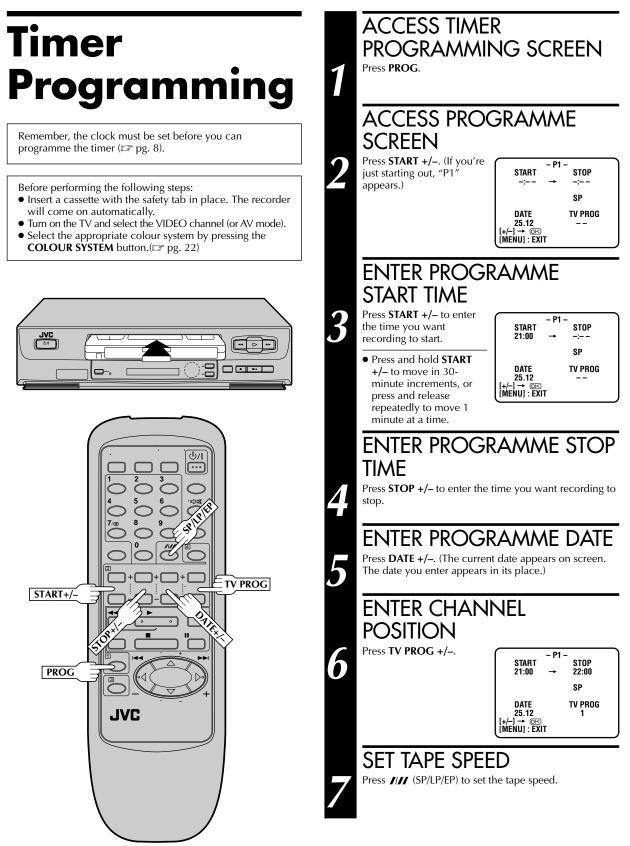
If you want to record for more than 30 minutes, press **RECORD** to extend the time. Each press extends recording time by 30 minutes.

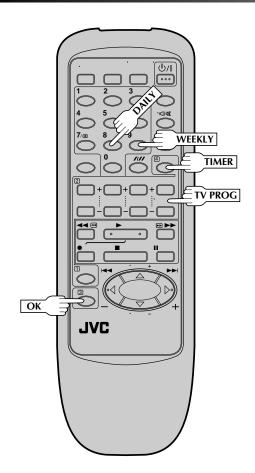
NOTE:

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

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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

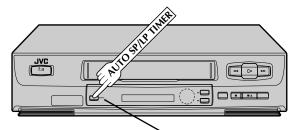
Press TIMER. The recorder turns off automatically.

To Timer-Record Weekly Or Daily Serials . . .

... anytime during steps 2 through 7, 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. 19).



AUTO SP/LP TIMER Indicator

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 the AUTO SP/LP TIMER indicator 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 AU TIMER	to sp/lp		
Press AUTO SP/LP TIMER on the recorder front panel. The AUTO SP/LP TIMER indicator 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 indicator is still lit; if not, press			

AUTO SP/LP TIMER indicator is still lit; if no **AUTO SP/LP TIMER** so that the indicator lights.

$18_{\scriptscriptstyle EN}$

MENU

OK

3

JVC

(୮୦୦ (୦୦୦)

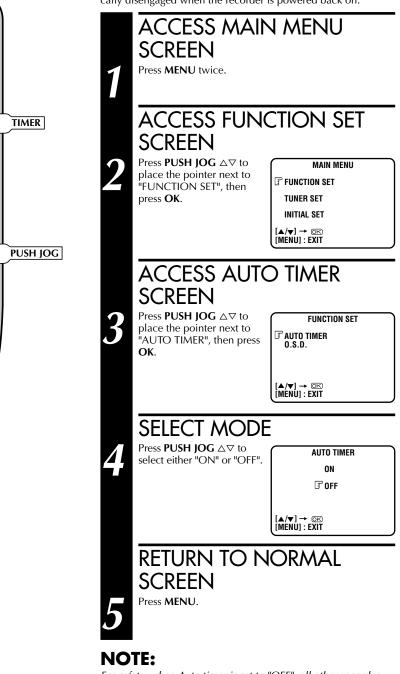
⊴/≪

 \overline{c}

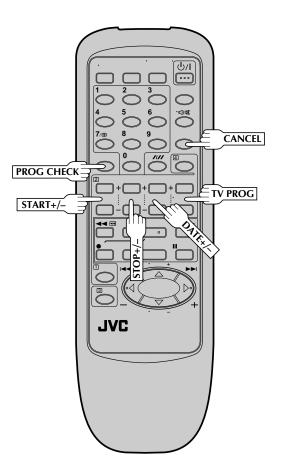


Auto Timer

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**.



Check And Cancel Programmes



Press PROG CHECK.

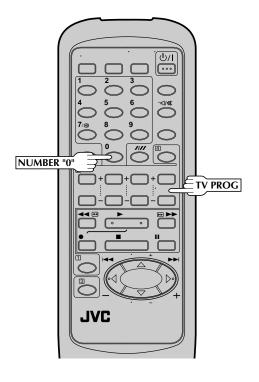
- If the recorder is turned on and the TV is set to its VIDEO channel or AV mode, you can check program information on screen.
- Each time you press **PROG CHECK**, the next programme's information appears.
- If All Information Is Correct . . .
- ... programming is completed.
- If You Wish To Revise Data . . .
- ... with the recorder's power turned on, go to step **2**.
- 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.

$20_{\rm EN}$

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.

SET RECORDING DECK'S INPUT MODE

Set to AUX. With this video recorder, press **NUMBER** Key "0" or **TV PROG**. "AU" will appear instead of a channel number.

START SOURCE PLAYER

Engage its Play mode.

START RECORDING DECK

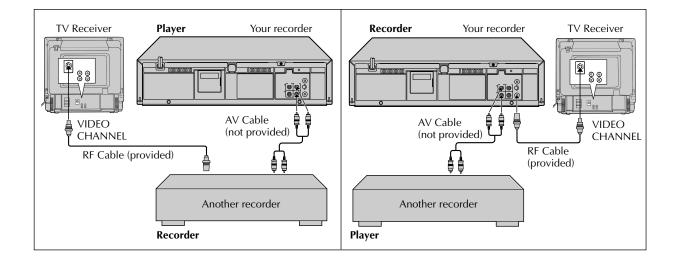
Engage its Record mode.

NOTES:

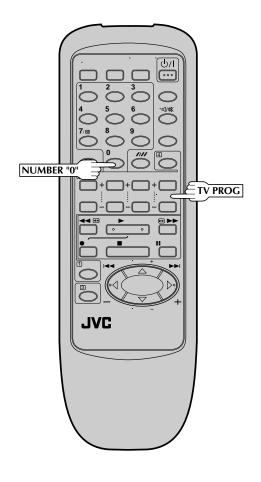
- All necessary cables can be obtained from your dealer.
- NTSC tapes being played back in the NTSC → PAL mode (□ p. 23) cannot be dubbed to another recorder.
- When you dub an NTSC tape using your recorder as the playback deck, select NTSC 3.58 (or NTSC 4.43) with the **COLOUR SYSTEM** button. (IFP p. 22)

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, □ pp, 22.



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 AUDIO/VIDEO input connectors.

SET RECORDER'S INPUT MODE

Press **NUMBER** key "0" and/or **TV PROG** so that "AU" appears on the display panel.

START CAMCORDER

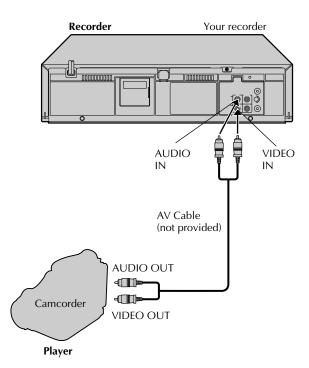
Engage its Play mode.

START RECORDER

Engage its Record mode.

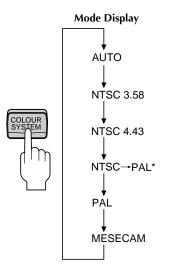
IMPORTANT:

- 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.





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.

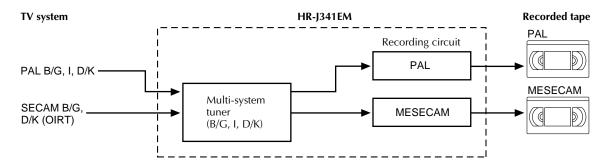
Mode	Description	
AUTO	Usually set to this mode. This mode automatically detects PAL, NTSC, SECAM or MESECAM and adjusts to the colour system being recorded or played back. When it does not perform properly, set the colour system manually.	
MANUAL	For recording, there is a choice of 4 selectable modes;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

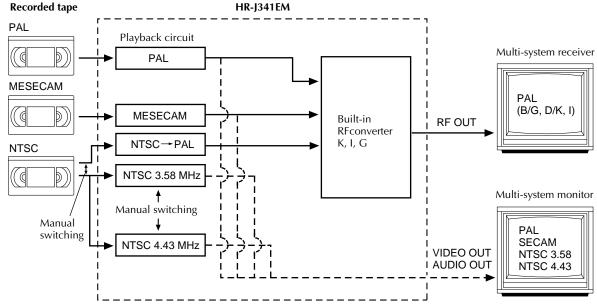


NOTE:

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:

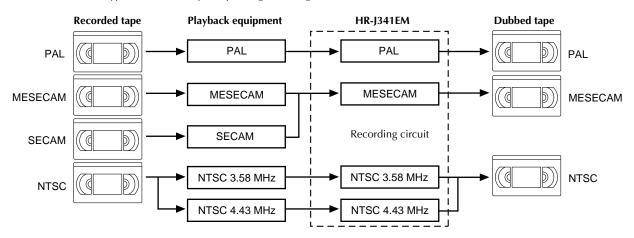
- The picture may shrink vertically with black bars appearing at the top and bottom of the screen. This is not a malfunction on the part of the video recorder nor the TV.
- The picture may roll up or down. This can be corrected using the V-HOLD control found on some TVs. (This cannot be corrected if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

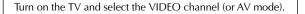
Tape-To-Tape Editing

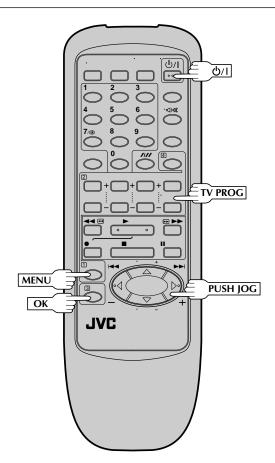
There are 4 different types of recorded tape, depending on the signal recorded.





TUNER SET





IMPORTANT

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

Auto Channel Set



TURN ON THE RECORDER Press ပံ/I.

ACCESS MAIN MENU SCREEN Press MENU twice.



SCREEN Press **PUSH JOG**△▽ to MAIN MENU place the pointer next to FUNCTION SET "TUNER SET", then press OK. **TUNER SET INITIAL SET** $[\blacktriangle/\bigtriangledown] \rightarrow \bigcirc \bigcirc$ [MENU] : EXIT SELECT AUTO CH SET MODE Press **PUSH JOG**△▽ to TUNER SET place the pointer next to CH EDIT "AUTO CH SET", then press OK. MANUAL CH SET **AUTO CH SET** [▲/▼] → ©K [menu] : exit SELECT TV SYSTEM Press **PUSH JOG**△▽ to TV SYSTEM SELECT place the pointer next to 🕝 B/G the appropriate TV system, D/K then press OK. L Auto Channel Set will start. [▲/▼] → ©® [Menu] : exit SYS СН FRQ ~ AUTO CH SET

ACCESS TUNER SET

3

SYS СН FRO FRQ SYS 150 BG 165 BG 295 BG 213 BG 221 BG 229 237 355 365 374 07 08 09 10 11 01 02 03 04 05 BG BG BG BG BG PLEASE WAIT 06 12 384 BG [◀] : DELETE $\begin{bmatrix} \blacktriangle/\blacktriangledown \end{bmatrix} \rightarrow \begin{bmatrix} \blacktriangleleft \end{bmatrix} : \\ \begin{bmatrix} \blacktriangle/\blacktriangledown \end{bmatrix} \rightarrow \bigcirc \boxtimes \\ \begin{bmatrix} MENU \end{bmatrix} : EXIT$ START FINISH OK : EDIT **RETURN TO NORMAL** SCREEN Press MENU.

IMPORTANT

 $\hat{\mathbf{n}}$

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 26.

Manual Channel Set

Store channels that were not stored during Auto Set Up (pg. 4) or Auto Channel Set (17 pg. 24).

ACCESS TUNER SET **SCREEN**

Perform steps 1 – 3 of "Auto Channel Set" on page 24.

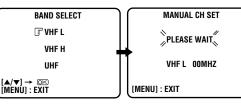
ACCESS MANUAL CH SET **SCREEN**



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.

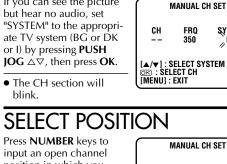
• The blueback screen and the TV picture currently being broadcast appear alternately for 8 seconds each.

PERFORM TUNING

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





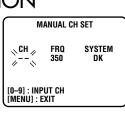


SELECT TV SYSTEM

If you can see the picture

6

position in which you want to store the detected station (for a one-digit number, enter "0" first). Then press OK.



FRO

350

 To continue channel search, press PUSH JOG △▽ to select "CON-TINUE", then press OK. Repeat steps 4 - 7 as necessary.

 $[\blacktriangle/] \rightarrow \bigcirc$ [MENU] : EXIT

CONTINUE

BAND SELECT

• To set channels for other bands, press PUSH JOG $\Delta \nabla$ to select "BAND SELECT", then press **OK** to go back to the Band Select screen. Repeat steps 3 - 7.

RETURN TO NORMAL SCREEN Press MENU.



SYSTEM

*`*вб″

Delete A Channel

 26_{EN}

ACCESS TUNER SET **SCREEN**

Perform steps 1 – 3 of "Auto Channel Set" on page 24.

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.

6	СН	FRO	SYS,	CH	FRO	SYS
E	01	150	BG	07	229	BG
P	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		
	Ì▲/	▼i →	or:E	DIT		
	ÎMÉ	NÚ1 : I	EXIT			
6						

DELETE CHANNEL

r	less⊲.
•	To re-store it, simply
	press ⊳.
•	Repeat steps $3 - 4$ as
	necessary.

	(CH	FRQ	SYS,	CH	FRQ	SYS
_	C 01		~~	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
			[▶]:A	DD		
	[MENU] : EXIT					

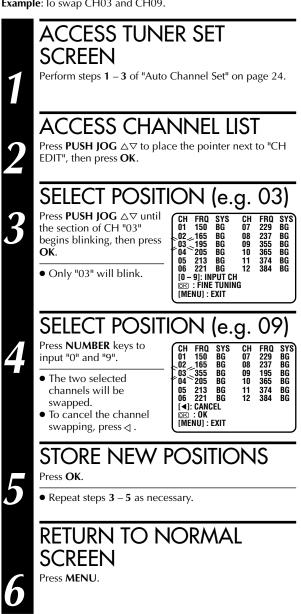
RETURN TO NORMAL SCREEN

Press MENU.

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 24.

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** $\triangle \nabla$ 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



ACCESS CHANNEL LIST

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

SELECT CHANNEL

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

	_					_
1	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
	[▲/	▼]:S	ELECT	SYSTE	М	
	ok : OK					
	[MENU] : EXIT					

EN 27

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

Δ

SELECT TV SYSTEM

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

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

RETURN TO NORMAL SCREEN Press MENU.

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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 disconnected. 	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 "④" indicator off.
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 "DD" 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. (IF pg. 5) Perform "Video Channel Set" (IF 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.	Set the TV to its /TV mode.
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. The playback picture is blurred or interrupted while TV broadcasts are clear.	• The video heads may be dirty.	Consult your JVC dealer.
7. 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. (() pg. 22) Once recorded, the signal cannot be corrected. Be sure to choose the correct setting before recording.
8. 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. (EF pg. 7)
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.

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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. 	Confirm that the source is properly connected. Confirm that all units' power switches are turned on.
4. Camcorder recording is not	 The input mode is not correct. The camcorder has not been	Set the input mode to "AU". Confirm that the camcorder is
possible.	properly connected.	properly connected.
	• The input mode is not correct.	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. "④" and "匝"" 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 "O" and "O" 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.
 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 designated to be skipped. 	If you need the skipped channels, restore them (🖙 pg. 25).
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 ($\square P$ 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 pause of the record the beginning does this hap
Q. Can the video recorder indefinitely remain in the still mode?	A. This is normal resume point
A. No. It stops automatically after 5 minutes to protect the heads.	Q. Can the video Record-Pause
Q. During search, slow, still and frame-by-frame playback, I can't hear any audio. What's the problem?	A. No. The video matically afte
A. This is normal.	Q. What happer A. The video rec
Q. When returning from multi-speed search to normal playback, the picture is disturbed. Should I be concerned about this?	beginning. TIMER RECORDI
A. No, it is normal.	Q. " ○ " and "�' there a probl
Q. Noise bars appear during multi-speed search. What's the problem?A. This is normal.	A. No. This is a r progress.
	Q. Can I progra
Q. Other than preventing further recording, what effect does removing the Record Safety tab have?A. It disables marking of index codes.	or a TV broad A. You won't see screen menu, you're viewir
 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. 	

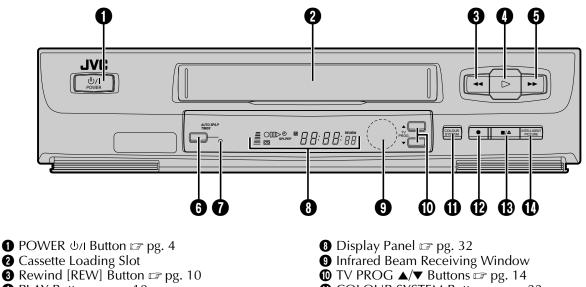
RECORDING

 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. " O " and "O" remain lit on the display panel. Is there a problem? A. No. This is a normal condition for a timer recording ir 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:

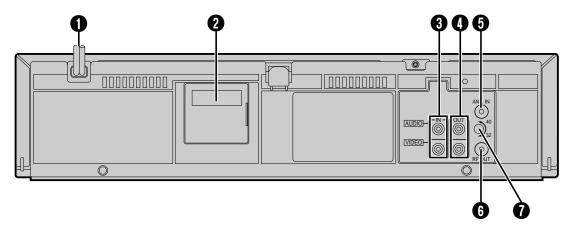
This recorder contains microcomputers. External electronic noise or interference could cause malfunctioning. In such cases, switch the recorder off and unplug the mains power cord. Then plug it in again and turn the recorder on. Take out the cassette. After checking the cassette, operate the unit as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

FRONT VIEW



- PLAY Button 🖙 pg. 10
- ⑤ Fast Forward [FF] Button ☞ pg. 10
- 6 AUTO SP/LP TIMER Button 🖙 pg. 17
- AUTO SP/LP TIMER Indicator g pg. 17
- COLOUR SYSTEM Button 🖙 pg. 22
- RECORD Button ☞ pg. 14
- B STOP/EJECT Button ☞ pg. 10
- INTELLIGENT PICTURE Button 🖙 pg. 12

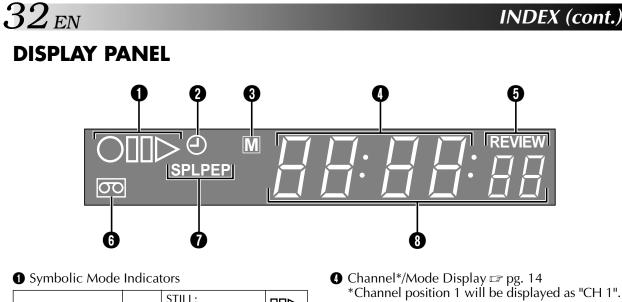
REAR VIEW



- Mains Power Cord
 pg. 3
- **2** Lithium Battery Compartment 🖙 pg. 5
- 3 VIDEO/AUDIÓ Input Connectors ☞ pg. 20, 21
- IVIDEO/AUDIO Output Connectors ☞ pg. 3, 20
- ANT. IN Connector
 r
 r
 g. 3

■ RF OUT Connector 🖙 pg. 3

RF Output Channel Adjustment Screw 🖙 pg. 5

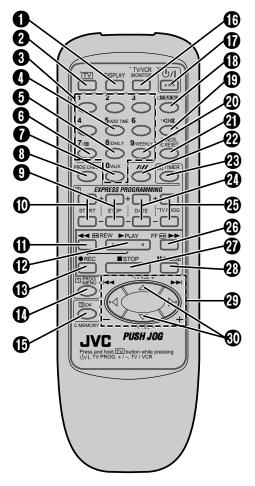




- 2 "Timer" Indicator 🖙 pg. 17
- Counter Memory Indicator 🖙 pg. 13

- *Channel position 1 will be displayed as "C Clock Display 🖙 pg. 8
- Instant REVIEW Indicator ☞ pg. 13
- 6 "Cassette Loaded" Mark
- Tape Speed Indicators
 pg. 14
- Ounter Display ☞ pg. 15

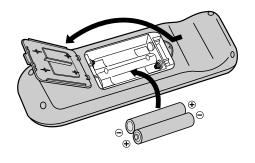
REMOTE CONTROL



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

Installing Batteries

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



- DISPLAY Button 🖙 pg. 15
- **2** TV Button (see below)
- 3 NUMBER Keys 🖙 pg. 14
- ADD TIME Button (no function with this recorder.)
- ⑤ DAILY Button ☞ pg. 17
- Image: Operation (PDC/VPS) Button (no function with this recorder.)
- AUX Button 🖙 pg. 20
- 8 PROG CHECK Button ☞ pg. 19
- STOP +/− Button I pg. 16
- O START +/− Button 🖙 pg. 16
- **①** Rewind [REW] Button 🖙 pg. 10
- Play Button 🖙 pg. 10
- B Record Button ☞ pg. 14
- PROG/MENU Button I pg. 6, 16
- OK Button ☞ pg. 6 C. MEMORY Button ☞ pg. 13
- TV/VCR Button (see below)
- Definition POWER ⊍/I Button 🖙 pg. 4
- REVIEW Button □ pg. 13
- I ⊲/☆ (TV Mute) Button (see below)
- [™] WEEKLY Button 🖙 pg. 17
- ② CANCEL Button ☞ pg. 19
- C. RESET Button 🖙 pg. 13
- TIMER Button ☞ pg. 17
- DATE +/− Button 🖙 pg. 16
- TV PROG +/– Button ☞ pg. 14

- Pause Button 🖙 pg. 11
- **(1)** TV VOL $\triangle \nabla$ Button (see below)

How To Use

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

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

Operating JVC TVs

To operate your TV, while holding down **TV**, press the corresponding button: **POWER** 也/I, **TV/VCR, TV PROG +/-**, **TV VOL +/-**, **d/**() (TV Mute), **////** (to select either Main or Sub programmes).

NOTES:

- Depending on the type of JVC TV, there may be cases where some or all functions cannot be operated using the remote control.
- If the remote control doesn't work properly, remove its batteries, wait a short time, replace the batteries and then try again.



SPECIFICATION

GENERAL

Power requirement	
Rating	: AC 110 – 240 V∼, 50/60 Hz
Operating	: AC 90 – 260 V ∼, 50/60 Hz
Power consumption	: 18 W
Temperature	
Operating	: 5°C to 40°C
Storage	: -20°C to 60°C
Operating position	: Horizontal only
Dimensions (WxHxD)	: 400 x 94 x 276 mm
Weight	: 3.3 kg
Format	: VHS standard
Maximum recording tim	e
(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	

TUNER/TIMER

TV channel storage	
capacity	: 99 positions
	(+AUX position "AU")
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.
<i>,</i> .	Estimated figure based on
	supplied fresh battery; actual
	performance may differ.
ACCESSORIES	

ACCESSORIES

Provided accessories	: RF cable, Infrared remote control unit, "R6/UM-3" battery x 2, Lithium battery CR2025, Conversion plug
	1 0

Specifications shown are for SP mode unless otherwise specified.

Design and specifications subject to change without notice.

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	: Rotary two-head helical scan system
Signal-to-noise ratio	: 45 dB
Horizontal resolution	: 250 lines (PAL/MESECAM)
	: 220 lines (NTSC)
Frequency range	: 70 Hz to 10,000 Hz
Input/Output	: RCA connectors (IN x 1, OUT x 1)

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