JVC HR-J798AH

G-CODE / SHOWVIEW **SQPB**

INSTRUCTIONS



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CONTENTS

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Buttons, Connectors and Indicators	2
Basic Connections	3
Video Channel Set Auto Set Up Language Setting Clock Setting	4 5
Playback	5
Recording	7
Timer Recording Express Timer Programing Checking, cancelling or changing program settings Program overlap warning display	9 9
Other Functions Checking tape position Changing display information Function settings Satellite Auto Recording Multi-Brand Remote Control Changing Remote Control Code	10 10 10 11 11
Editing	12
Information on Multi-System Compatibility	13
Tuner Setting	14
Specifications	16

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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.

- 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.

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.

SEĆAM 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 V - 240 V \sim (Rating), AC90 V - 260 V \sim (Operating), 50 Hz/60 Hz with automatic switching.

Caution on Replaceable 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. Danger of explosion or Risk of fire if the battery is incorrectly replaced.

Dispose of used battery promptly.

■ Keep away from children.

Do not disassemble and do not dispose of in fire.

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 prerecorded 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 U/I button does not completely shut off mains power from the unit, but switches operating current on and off. "U" shows electrical power standby and " | " 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 singlespeed video recordér.

VHS SQPB HIEL G-cope / SHOWVIEW

- Cassettes marked "VHS" (or "S-VHS") can be used with this video cassette recorder. However, S-VHS recording is not possible with this model.
- This model is equipped with SQPB (S-VHS QUASI PLAYBACK) that makes it possible to play back S-VHS recordings in the SP mode with regular VHS resolution.
- HQ VHS is compatible with existing VHS equipment.
 G-CODE is a trademark of Gemstar Development Corporation and is registered in the following countries: Australia, China, Hong Kong, Japan, South Korea, New Zealand, and Taiwan. SHOWVIEW is a trademark of Gemstar Development Corporation and is registered in the following countries: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Italy, Luxembourg, Netherlands, Norway, Poland, Portugal, Russia, Slovakia, South Africa, Spain, Sweden and Switzerland. The G-CODE/SHOWVIEW system is manufactured under license from Gemstar Development Corporation.

G-CODE and SHOWVIEW are different trademarks used to represent the same easy recording feature. However, for simplicity, only the term G-CODE will be used in the instructions. If you use SHOWVIEW system, follow the same steps listed for the G-CODE system.

When the equipment is installed in a cabinet or a shelf, make sure that it has sufficient space on all sides to allow for ventilation (10 cm or more on both sides, on top and at the rear).

When discarding batteries, environmental problems must be considered and the local rules or laws governing the disposal of these batteries must be followed strictly.

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 or holes. (If the ventilation openings or holes are blocked by a newspaper or cloth, etc., the heat may not be able to get out.)
- <u>DO NOT</u> place heavy objects on the recorder or remote control.
- DO NOT place anything which might spill on top of the recorder or remote control. (If water or liquid is allowed to enter this equipment, fire or electric shock may be caused.)
- **DO NOT** expose the apparatus to dripping or splashing.
- DO NOT use this equipment in a bathroom or places with water. Also DO NOT place any containers filled with water or liquids (such as cosmetics or medicines, flower vases, potted plants, cups, etc.) on top of this unit.
- DO NOT place any naked flame sources, such as lighted candles, on the apparatus.

 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 on the surface of a glass filled with cold liquid. Moisture condensation on the head drum will cause damage to the tape. In conditions where condensation may occur, keep the recorder's power turned on for a few hours to let the moisture dry.

How to use the remote control

The remote control can operate most of your recorder's functions, as well as basic functions of TV, cable box, satellite receiver, and DVD sets of JVC and other brands.

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

NOTES:

- When inserting the batteries, be sure to insert in the correct directions as indicated under the battery cover.
- If the remote control does not work properly, remove its batteries, wait for a few seconds, replace the batteries and then try again.

Video heads cleaning

The heads get dirty in the following cases:

- in an environment prone to extreme temperature or humidity
- in a dusty environment
- flaw, dirt or mold on video tapes
- · continuous usage for a long time

Use a dry cleaning cassette — TCL-2 — when:

- Rough, poor picture appears while a tape is played back.
- The picture is unclear or no picture appears.
 "USE CLEANING CASSETTE" appears on the screen (only with "O.S.D." set to "ON" (F 10)).

ATTENTION

To mobile phone user:

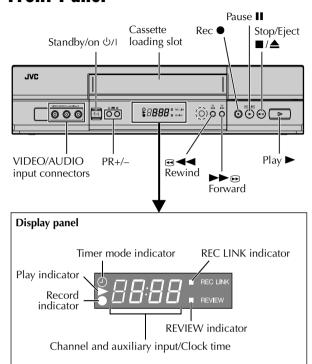
Using a mobile phone in the vicinity of the recorder may cause picture vibration on the TV screen or change the screen to a blue back display.

On placing the recorder:

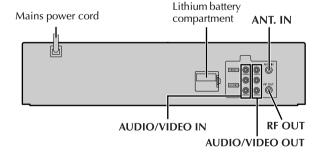
Some TVs or other appliances generate strong magnetic fields. Do not place such appliance on top of the recorder as it may cause picture disturbance.

Buttons, Connectors and Indicators

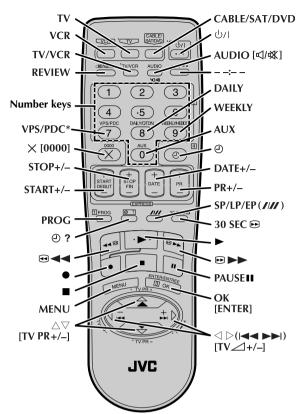
Front Panel



Rear Panel



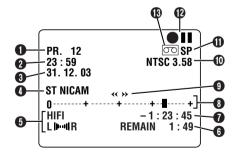
Remote control



* Not function with this recorder.

On-screen display

If you press **OK** on the remote control when "O.S.D." is set to "ON" (\$\opin\$ 10), you can see the current recorder status on the TV screen. To clear the on-screen display, press **OK** again. The indications are not recorded even if the recorder is in the recording mode.



- 1 Channel and auxiliary input
- Clock time
- 3 Day
- Type of broadcast
- 6 Audio mode
- **6** Tape Remaining time
- Time counter
- **3** Tape position
- Tape direction
- Ocolour system indicator
- Tape speed
- Recorder operation mode
- Cassette mark

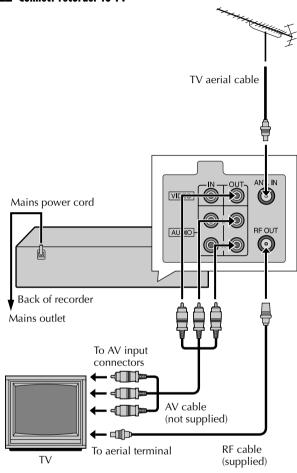
Basic Connections

■ Check contents

2 Situate recorder

Place the recorder on a stable, horizontal surface.

Connect recorder to TV



RF Connection

- Disconnect the TV aerial cable from the TV.
- 2 Connect the TV aerial cable to the ANT. IN terminal on the rear of the recorder.
- 3 Connect the supplied RF cable between the RF OUT terminal on the rear of the recorder and the TV's aerial input terminal.

AV Connection

(improves picture quality during tape playback.) If your TV is equipped with AV input connectors

- Connect the aerial, recorder and TV as shown in the illustration.
- 2 Connect an AV cable between the AUDIO/VIDEO OUT connectors on the rear of the recorder and the AV input connectors on the TV.
- Even if you are using AV cables to connect your recorder to your TV, you must also connect it using the RF cable. This will ensure that you can record one show while watching another.

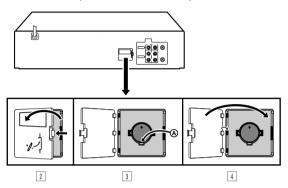
4 Connect recorder to mains

Plug the mains power cord into a mains outlet.

Installing/Removing the lithium battery

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.

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



Initial Settings

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

If you have connected the video recorder to your TV via the provided RF cable only (RF connection)...

 Hold down ■/▲ on the recorder until the display panel shows the following.

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

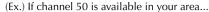
following.

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



Major Countries/Areas	TV System
New Zealand, Kuwait, U.A.E., Indonesia, Singapore, Thailand, Malaysia, Iran, Saudi Arabia, Egypt, Morocco, Lebanon, Iraq	B/G
China, Mongolia, Russia	D/K
Hong Kong	1
Australia	Н
U.S.A., Japan, S. Korea, Taiwan	М

- 3 Set your TV to UHF channel 36.
- If the two vertical white bars appear clearly on the screen as shown on the right, press **OK** and then go to step 4.
- If the two vertical white bars do not appear clearly, press OK and then PR + or – to set the recorder to a vacant channel between 28 and 60 which is not occupied by any local station in your area.



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

4 Press **OK** to finish video channel set.

If you have connected the video recorder to your TV via both the provided RF cable and an AV cable (AV connection)...

- Hold down ■/ on the recorder until the display panel shows the following.
- 2 Press **OK**, then press **PR** until the display panel shows the following. Now the video channel is set to off



- Press **OK** to finish video channel set.
- If Auto Set Up or Tuner Set has not previously been performed, the Language Select screen appears and Auto Set Up function takes place automatically.

Auto Set Up

Turn on the recorder and the TV, and set your TV to its AV mode or video channel.

The Auto Set Up function simplifies installation by guiding you through the procedures of setting the language, clock and tuner channels — simply follow the on-screen menus that appear.

■ Select language

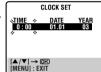
Press $\triangle \nabla$ to place the pointer next to your desired language (English, Chinese or Russian), then press **OK** or \triangleright .

• The Clock Set screen appears.

2 Set time

Press $\triangle \nabla$ to set the hour, then press \mathbf{OK} or \triangleright

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



3 Set date

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

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

4 Set year

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

5 Select TV system

Press $\triangle \nabla$ to place the pointer next to the appropriate TV system (refer to the table below).

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

6 Start auto channel set

Press **OK** or ▷.

 Receivable channels in your area are automatically assigned to the PR+/– buttons, and non-receivable channels are skipped.

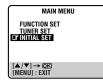


 When Auto Set Up is completed, the lowest position number will appear on the front display panel. If "SCAN COMPLETED-NO SIGNAL-" is displayed on the screen, make sure that the aerial cable is connected to the recorder properly and press OK on the remote control. The recorder will try Auto Set Up again.

Language Setting

Access Main Menu screen, then Initial Set screen

Press **MENU** on the remote control. Press $\triangle \nabla$ to place the pointer next to "INITIAL SET", then press **OK** or \triangleright .



Access Language Select screen

Press $\triangle \nabla$ to place the pointer next to "LANGUAGE", then press **OK** or \triangleright .

3 Select language

Press $\triangle \nabla$ to place the pointer next to the language of your choice (English, Chinese or Russian), then press **OK** or \triangleright . Press **MENU** to return to normal screen.



Clock Setting

Access Main Menu screen, then Initial Set screen

Press **MENU** on the remote control. Press $\triangle \nabla$ to place the pointer next to "INITIAL SET", then press **OK** or \triangleright .

2 Access Clock Set screen

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



Set time, date and year

Press $\triangle \nabla$ until the desired time appears, then press **OK** or \triangleright . Set the date and year in the same way.



NOTE:

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

4 Start clock

Press MENU and normal screen appears.

To make corrections any time during the process

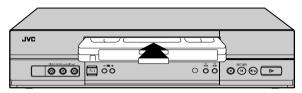
Press **OK** or \triangleright repeatedly until the item you want to change blinks, then press $\triangle \nabla$.

Playback

Basic Playback

Turn on the TV and select the video channel or AV mode.

■ Load a cassette



Make sure the window side is up, the rear label side is facing you and the arrow on the front of the cassette is pointing towards the recorder.

- Do not apply too much pressure when inserting.
- The recorder turns on, and the counter on the on-screen display is reset, automatically.
- Select the appropriate colour system with "PAL/MESECAM" and "NTSC" in Function settings.
- If the cassette's record safety tab has been removed, playback begins automatically.

2 Start playback

Press ►.

ATTENTION

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

- the picture will be distorted.
- the noise bars will appear.
- there may be a loss of colour

During playback

Stop playback

Press ■ on the remote control.

OR Press \blacksquare / \triangle on the recorder.

Pause playback and view still picture

Press II.

Press ➤ to resume normal playback.

Pause and Frame-by-Frame playback

Press **II** to pause, then press **►►**I (or **II**) repeatedly.

Press ➤ to resume normal playback.

Picture search

Press ◀◀ or ▶▶.Press ◀◀ or ▶▶ again to perform high-speed search.

- Press ➤ to resume normal playback.

Picture search at variable speed (including slow-motion)

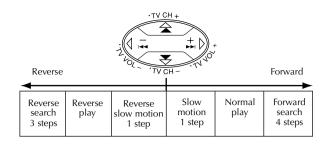
Press \triangleleft or \triangleright repeatedly.

- Press ➤ to resume normal playback.
- Each time you press

 or

 or

 the playback speed changes. To decrease the speed during picture search, press the opposite direction button repeatedly.
- During still picture, press and hold ▷ to start forward (or ◁ to start reverse) slow motion playback. When you release the button, still picture resumes. During still picture, holding II for more than 2 seconds also starts forward slow motion playback. If you press II again, still picture resumes.



When the tape is not running

Rewind/fast-forward

Press ◀◀ or ▶▶.

Eject the tape

Press ■/▲.

• You can also eject the cassette when the recorder is turned off.

Turn off the recorder

Press 心/1.

Playback Features

Adjusting tracking condition — tracking adjustment

Automatic tracking adjustment

Whenever you insert a tape and start playback, automatic tracking starts working and continuously analyzes the signal to enable optimum picture quality during playback.

Manual tracking adjustment

If automatic tracking cannot eliminate noises well during playback, follow the procedures below.

- Press SP/LP/EP (////) on the remote control during playback to activate manual tracking.
- Press PR + and to eliminate the noises. Press it briefly for a fine adjustment, or press and hold for a coarse adjustment.
 - Press **SP/LP/EP** (**/////**) again to reactivate automatic tracking.

Soundtrack Selection

Your recorder is capable of recording three soundtracks (HI-FI L, HI-FI R and NORM) and will play back the one you select. Pressing **AUDIO** changes the soundtrack being played back as follows:

HI-FI: Normally select this. Hi-Fi sound is played back.

HI-FI L: Sound on the left Hi-Fi channel is played back.

HI-FI R: Sound on the right Hi-Fi channel is played back.

NORM: Sound on the normal track is played back.

NORM HI-FI: Both sounds on the Hi-Fi track and normal track are mixed and played back.

NOTE

The above indication appears when "O.S.D." is set to "ON" (IF 10), though the monitor sound changes in sequence.

Automatic operations after rewinding — Next Function Memory

The Next Function Memory "tells" the recorder what to do after rewinding is complete. Ensure that the recorder is in stop mode.

• For Automatic Playback Start

Press $\blacktriangleleft \blacktriangleleft$, then press \blacktriangleright within 2 seconds.

• For Automatic Power Off

Press ◀◀, then press ७/। within 2 seconds.

• For Automatic Timer Standby

Press ◀◀, then press ④ within 2 seconds.

NOTE:

It is not possible to select the Automatic Timer Standby function if the cassette's record safety tab is removed.

Playing back tape repeatedly (100 times) — Repeat Play

During playback, press and hold \blacktriangleright for more than 5 seconds. The play indicator (\triangleright) on the display panel starts blinking slowly. To stop playback, press \blacksquare on the remote control or \blacksquare/\triangle on the recorder.

NOTE:

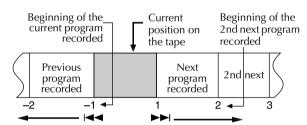
Pressing \triangleright , $\blacktriangleleft \blacktriangleleft$, $\triangleright \triangleright$ or \blacksquare also cancels repeat playback.

Locating beginning of recordings — Index Search

Index codes are placed on the tape at the beginning of each recording when recording on this recorder.

- While the tape is not running, press < or > (I < or > >) on the remote control to start search.
- 2 To access a recording of 2 to 9 index codes away, press < or ▷ (I◄◄ or ►) repeatedly until the correct number is displayed on the screen (only if "O.S.D." is set to "ON"). Playback begins automatically when the desired recording is located.





Locating beginning of timer recordings — Instant Review

After ensuring that the recorder is turned off and that the timer mode is disengaged, press **REVIEW** on the remote control.

- The recorder turns on, and rewinds to the index code indicating the beginning of the last timer-recorded program, then begins playback automatically.
- You can access a program of 2 to 9 index codes away from the current position on the tape. If, for example, you have 5 programs recorded and you want to watch the third one, press REVIEW three times.
- The Instant Review function will also operate if the recorder is turned on.

Skipping unwanted portions

— Skip Search

Recording

Accidental erasure prevention

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



Basic Recording

Turn on the TV and select the video channel or AV mode.

■ Load a cassette

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

- The recorder turns on, and the counter is reset, automatically.
- Select the appropriate colour system with "PAL/MESECAM" and "NTSC" in Function settings.

2 Select recording channel

Press PR+/- or the Number keys.

NOTE:

You can select channel in the stop mode, recording pause mode or during rewind/fast-forward.

3 Set tape speed

Press SP/LP/EP (////).

4 Start recording

On the recorder, press lacktriangle. Or on the remote control, while holding lacktriangle, press lacktriangle.

NOTĚ:

If the tape reaches its end during recording, the recording stops and " \bigcirc " and " \triangleright " on the front display panel blink. Press \blacksquare / \triangleq on the recorder to eject the cassette or press \blacktriangleleft \blacktriangleleft on the remote control to rewind the tape.

During recording

Pause recording

Press II.

- Press ➤ to resume recording.
- You can select channel in the recording pause mode.

Stop recording

Press ■ on the remote control.

OR Press ■/▲ on the recorder.

Recording Features

Specifying recording length — Instant Timer Recording (ITR)

During recording, press • on the recorder repeatedly until the recording length you want appears on the display panel. The record indicator () on the display panel starts blinking.

- Each time you press the button, recording length increases in 30-minute intervals (up to 6 hours).
- The recorder shuts off after recording is finished.
- To cancel an ITR, press on the remote control or ■/♠ on the recorder.

Watching one program while recording another

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 PR +/- buttons is recorded on the tape.

Receiving Stereo And Bilingual Programmes

Your recorder is equipped with a Sound-Multiplex decoder (A2) and a Digital stereo sound decoder (NICAM) as well, making reception of stereo and bilingual broadcasts possible. When the channel is changed, the type of broadcast being received will be displayed on the TV screen for a few seconds.

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

- To listen to a stereo programme, press AUDIO until "HIFI L I» ■ R" appears on the screen.
- To listen to a bilingual programme, press **AUDIO** until "HIFI L **I**•" or "HIFI **1** R" appears on the screen.
- To listen to the Standard (regular monaural) audio while receiving a NICAM broadcast, press AUDIO until "NORM" appears on the screen.

NOTE:

"O.S.D." must be set to "ON" (10) or the on-screen displays will not appear.

To Record Stereo And Bilingual Programmes (A2)

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

To Record NICAM Stereo And Bilingual Programmes

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

NOTES:

- If the quality of stereo sound being received is poor, the broadcast will be received in monaural with better quality.
- Before playing back a programme recorded in stereo, or a bilingual programme, refer to "Soundtrack Selection" (□ 6).

Recording Resume Function

If there is a power outage during recording (or Instant Timer Recording, Satellite Auto Recording or timer recording), the recording will resume automatically when the power is restored to the recorder. (No setting is required for this function.)

Timer Recording

Up to 8 timer recording programs can be made using G-CODE/ SHOWVIEW timer programing or Express timer programing method as far as a year in advance. Remember, the clock must be set before you can program the timer.

NOTES:

- If all the 8 programs have already been set, "PROGRAM FULL" appears on the TV screen.
- After timer recording is completed, the recorder turns off automatically.
- You can program the timer recording while a regular recording is in progress; the menu screens will not be recorded.
- In case of a power failure after programming, the recorder's memory backup keeps your selections (if the lithium battery is not exhausted).
- If the tape reaches its end during recording, the recording stops and "○" and "▷" on the front display panel blink. Press ७/١ then ■ / on the recorder to eject the cassette or press on the remote control to rewind the tape.

G-CODE[™]/SHOWVIEW[™] System Setup

INFORMATION

G-CODE and SHOWVIEW are different trademarks used to represent the same easy recording feature, but only the term G-CODE system will be used in the instructions. If you use the SHOWVIEW system, follow the same instructions listed for the G-CODE system.

The G-CODE timer programming system eliminates the need to input channel, date, start and stop time data when setting the timer record function. Simply key in the G-CODE number for the TV programme you wish to record (found in most TV listings) and the recorder's timer is automatically programmed.

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

Before G-CODE setup you must have performed the procedures of Tuner Set and Clock Set.

IMPORTANT

Perform the following procedure after Auto Set Up and/or the channel setting steps.

After setting the Guide Program Numbers, channel positions may be incorrect if you stored or skipped channels. In this case, reperform Guide Program Number setting.

Guide Program Number Set

Access Main Menu screen, then Initial Set screen

Press **MENU** on the remote control. Press $\triangle \nabla$ to place the pointer next to "INITIAL SET", then press **OK** or ▷.

2 Access G-CODE/SHOWVIEW Setup screen

Press $\triangle \nabla$ to place the pointer next to "G-CODE/SHOWVIEW SETUP", then press **OK** or \triangleright .

Input Guide Prog number

Press $\triangle \nabla$ or the **Number keys** to select the Guide Program number as shown in the TV listing, then press **OK** or \triangleright .

Input receiving channel number

Press $\triangle \nabla$ or the **Number keys** to select the number of the channel on which the Guide Program number's broadcasts are received, then press **OK** or \triangleright .

• If the satellite broadcast is received on your recorder's auxiliary channel ("L-1"

or "F-1"), select "L-1" or "F-1" for the channel position to which the satellite receiver is connected.

TV PROG [0-9] OR [▲/▼]: SELECT → ŒK [MENU]: EXIT G-CODE/SHOWVIEW SETUP

G-CODE/SHOWVIEW SETUP

GUIDE PROG [0-9] OR [▲/▼] : SELECT → ŒK [MENU] : EXIT

Repeat steps 3 and 4 as necessary.

5 Return to normal screen

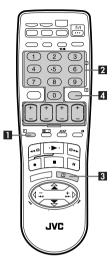
Press MENU on the remote control.

G-CODE[™]/SHOWVIEW[™] Timer Programing

The G-CODE numbers are the numbers next to the program in most TV listing.

- Remember, the clock must be set before you can program the timer.
- Be sure to read "G-CODE™/ SHOWVIEW[™] System Setup".
- Load a cassette with the record safety tab intact. The recorder turns on, and the counter is reset, automatically.
- Select the appropriate colour system with "PAL/MESECAM" and "NTSC" in Function settings.
- Press **PROG** on the remote control to access the G-CODE/SHOWVIEW screen



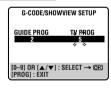


2 Press the appropriate **Number keys** to input the G-CODE number, then press **OK**. Check to make sure the setting is accurate on the G-CODE Program screen.





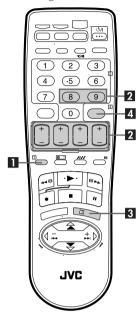
• If the G-CODE/SHOWVIEW Setup screen appears after pressing OK, press the Number keys, PR+/- or $\triangle \nabla$ to input the number of the channel on which the broadcast for the G-CODE number is received on the recorder, then press OK.



- To set the tape speed, press SP/LP/EP (////).
- To change the stop time, press **STOP+/-**.
- To timer-record daily (Monday-Friday) or weekly serials, press DAILY (number key 8) or WEEKLY (number key 9). Pressing the button again makes the "DAILY" or "WEEKLY" display disappear.
- If you made a mistake, press X to access the G-CODE/ SHOWVIEW screen again.
- If an incorrect G-CODE/SHOWVIEW number or the one for a broadcast already finished has been input, "ERROR" is displayed for about 5 seconds, then the G-CODE/SHOWNEW screen reappears.
- 3 Press **OK** or **PROG**.
 - If "PROGRAM OVERLAPPED" appears, see "Program overlap warning display" (2 9).
- Press ②. The recorder turns off automatically and "②" is displayed on the display panel.

Express Timer Programing

- Remember, the clock must be set before you can program the timer
- Load a cassette with the record safety tab intact. The recorder turns on, and the counter is reset, automatically.
- Select the appropriate colour system with "PAL/MESECAM" and "NTSC" in Function settings.



- Press PROG on the remote control to access the G-CODE/ SHOWVIEW screen, then press START+/-.
- 2 Press START+/-, STOP+/-, DATE+/- or PR+/- repeatedly to enter the start time, stop time, date or channel.
 - Press and hold START+/- or STOP+/- to increase the time in 30-minute intervals.
 - To set the tape speed, press SP/LP/ EP (////).
 - To timer-record daily (Monday–Friday) or weekly serials, press DAILY (key number 8) or WEEKLY (key number 9).
 Pressing the button again makes the "DAILY" or "WEEKLY" display disappear.

START 8:00

DATE 24.04

[+/-] → (OK) [PROG] : EXIT STOP 10:00

TV PROG

- 3 Press OK or PROG.
 - If "PROGRAM OVERLAPPED" appears, see "Program overlap warning display".
- 4 Press ②. The recorder turns off automatically and "⊕" is displayed on the display panel.

To use the recorder while it is in timer recording standby mode

Press Θ , then press Θ /l. After you use the recorder, press Θ again to put the recorder into timer recording standby mode.

Checking, cancelling or changing program settings

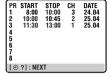
■ Disengage timer

Press ⊕, then press ⊍/I.

 When "AUTO TIMER" is set to "ON" (☐ 10), you do not have to press ②.

2 Access Program Check screen

Press @ ?.



Access Program screen

Press ② ? again. Each time you press ② ?, the next program's Program screen appears.



4 Cancel or change program setting

To cancel a program, press X when the Program screen you do not want is shown.

To change a program, press the appropriate button: START+/-, STOP+/-, DATE+/-, PR+/-, DAILY, WEEKLY and/or SP/LP/EP (////) when the Program screen on which you want to make changes is shown.

5 Return to normal screen

Press ② ? repeatedly until no Program screen is shown.

6 Reengage timer recording standby mode

Press Θ . The recorder turns off automatically and " Θ " is displayed on the display panel.

 When "AUTO TIMER" is set to "ON" (IF 10), the timer recording standby mode automatically resumes when you turn off the recorder.

Program overlap warning display

If "PROGRAM OVERLAPPED" appears, you have another program overlapping the program you have just made. The Program Check screen appears and conflicting programs will start blinking.





Example:

Program 1 (you have just made) and Program 4 overlap each other.

Select program to modify

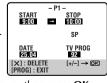
Press $\triangle \nabla$, then press \triangleright .

- You can only select one of the overlapping programs.
- If you do not mind this overlap, press
 PROG to finish the timer program setting. The program starting earlier or program with the lower program number will be recorded.



2 Cancel or change program setting

To cancel a program, press X when the Program screen you do not want is shown. To change a program, press the appropriate button: START+/-, STOP+/-, DATE+/-, PR+/-, DAILY, WEEKLY and/or SP/LP/EP (////) when the Program screen



on which you want to make changes is shown, then press OK.
If the overlap is not yet solved, the conflicting programs will be shown on the Program check screen. Repeat the above steps again.

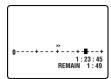
Other Functions

Checking tape position

When you change the recorder operation mode from the stop mode to fast forward or rewind mode, or when you perform an Index Search or Instant Review, the tape position indicator appears.

The position of "\|\begin{align*} " in relation to "0" (beginning) or "+" (end) shows you where you are on the tape.

● Set "O.S.D." to "ON" (☞ 10).



Changing display information

Each time you press — ————, the display panel shows the channel number and the clock time alternatively.



 You can change display in the stop, recording or during rewind/fast-forward.

When "O.S.D." is set to "ON" (□ 10) and - :- on the remote control is pressed, time counter will
 appear on the TV screen. To reset the time counter, press 0000
 on the remote control.

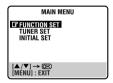
Function settings

You can use the other useful function settings on the Function Set screen.

Turn on the recorder and the TV, and set your TV to its AV mode or video channel.

Access Main Menu screen, then Function Set screen

Press **MENU** on the remote control. Press $\triangle \nabla$ to place the pointer next to "FUNCTION SET", then press **OK** or \triangleright .



2 Select Function

Press $\triangle \nabla$ to place the pointer next to the function you want to set.

FUNCTION					
☐B.E.S.T.	ON				
PICTURE CONTROL	AUTO				
PAL/MESECAM	AUTO				
	SC3.58				
AUTO TIMER	OFF				
0.S.D.	ON				
AUTO SP→LP TIMER	OFF				
$[\blacktriangle/\blacktriangledown] \rightarrow \bigcirc \mathbb{K}$					
[MENU] : EXIT					

3 Change setting

Press **OK** or \triangleright . The default setting is **bold** in the following table. Press **MENU** to return to normal screen.

■ **B.E.S.T.** — **ON** / OFF

When B.E.S.T. (Biconditional Equalized Signal Tracking) system is set to "ON", this recorder checks the condition of the tape in use during playback and recording, and compensates to provide the highest-possible pictures. This takes place whenever you play back a tape or start recording after inserting a tape.

NOTES:

- The recorder checks the tape condition for about 7 seconds, then starts recording. To make sure you record the desired scene or program completely, perform the following steps:
- Press and hold II, and press ●. After about 7 seconds, the recorder re-enters Record Pause mode.
- Press ➤ to start recording.
- B.E.S.T does not work when the Satellite Auto Recording mode is engaged (\$\square\$ 11).

■ PICTURE CONTROL — AUTO(NORM) / EDIT / SOFT

This function helps you to adjust the playback picture quality according to your preference.

AUTO (NORM): Normally select this. Picture quality is adjusted automatically. When "B.E.S.T." is "OFF", "NORM" will appear instead of "AUTO".

EDIT: Minimizes picture degradation during editing (recording and playback).

SOFT: Reduces image coarseness when viewing overplayed tapes containing much noise.

NOTE:

Select "FDIT" when you are editing tapes. After you finish editing the tapes, select "AUTO".

■ PAL/MESECAM — AUTO / PAL / MESECAM

Select the appropriate colour system for recording or playback. **AUTO**: Usually set to this mode. The appropriate colour system (PAL or MESECAM) will be selected depending on the playback or recording signals.

If the "AŬTO" mode does not work properly, select either of the following manual modes.

PAL: To record PAL signals, or playback a PAL tape. MESECAM: To record SECAM signals, or playback a SECAM or MESECAM tape.

NOTES:

- SECAM signals will always be recorded as MESECAM. Select "AUTO" or "MESECAM" when recording SECAM signals.
 When playing back a SECAM tape, select "AUTO" or
- When playing back a SECAM tape, select "AUTO" or "MESECAM". The playback picture will always be monochrome.

■ NTSC — NTSC3.58 / NTSC4.43 / NTSC→PAL

To record NTSC signals or playback a NTSC tape, it will be necessary to select the appropriate mode.

NTSC3.56: To record NTSC signals or playback a NTSC tape. NTSC4.43: To record NTSC4.43 signals or playback a NTSC4.43 tape.

NTSC→PAL: To playback a NTSC tape on PAL TV.

NOTES:

- The "NTSC→PAL" mode does not work during recording. In this mode, NTSC signals will be recorded as NTSC3.58.
- The Menu screen is distorted during playing back a NTSC tape on PAL TV. Stop playback and access the Menu screen again.
- 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 "NTSC3.58" mode.

■ AUTO TIMER — ON / OFF

• When this function is set to "ON":

The timer recording standby mode is automatically engaged when the recorder is turned off. It is temporarily canceled when the recorder is turned on. You do not have to press Θ to engage or disengage the timer recording standby mode.

When this function is set to "OFF":

You have to press $\ensuremath{\mathfrak{O}}$ to engage or disengage the timer recording standby mode.

■ 0.S.D. — ON / OFF

When this function is set to "ON", various recorder status information (on-screen display) appears on the screen.

NOTE

When you use this recorder as the source player for editing a tape, be sure to set this function to "OFF"; otherwise, the recorder status information (on-screen display) will be recorded on the edited tape.

■ AUTO SP→LP TIMER — ON / OFF

When this function is set to "ON", the recorder automatically switches to LP mode to allow complete recording if there is not enough tape to record the entire program while timer-recording in SP mode.

For Example, Recording a PAL-broadcast programme of 210 minutes in length onto a 180-minute tape.

Approximately 150 minutes	Approximately 60 minutes
SP mode	LP mode

Total 210 minutes

NOTES:

- If you have programed the recorder to timer-record 2 or more programs, do not use this function, but change the tape speed manually during timer programing.
- There may be some noise and sound disturbance where the tape speed switches from SP to LP mode on the tape.
- The Auto SP→LP Timer feature is not available during ITR (Instant Timer Recording), and the feature will not work properly with any tapes longer than E-180 or with some tapes of shorter lengths.

Satellite Auto Recording

You can automatically record a satellite program which is timerprogramed on your satellite receiver.

- Connect a satellite receiver to the AUDIO/VIDEO IN connectors on the rear panel. You can also connect the cable box if it has a timer.
- 2 Set timer program on satellite receiver referring to its instruction manual.
- 3 Load a cassette with the record safety tab intact.
- 4 Press SP/LP/EP (////) to set the tape speed.
- Press REC LINK for more than 2 seconds. The recorder turns off automatically and enter the Satellite Auto Recording standby mode (the REC LINK indicator lights up). When signals come into the recorder from the satellite receiver, the recorder starts recording (the REC LINK indicator blinks), and stops recording (the REC LINK indicator stops blinking) when signals stop coming in.

NOTES:

- Be sure not to turn on the satellite receiver before the program starts broadcasting; otherwise, the recorder will start recording when the satellite receiver is turned on.
- To disengage the Satellite Auto Recording standby mode, press **REC LINK** (the REC LINK indicator goes off).
- Depending on the type of satellite receiver, Satellite Auto Recording may not be compatible.

Multi-Brand Remote Control

This remote control can control some functions of remote controllable TVs, cable boxes, satellite receivers or DVD sets listed below. Without setting, you can control a JVC TV.

NOTES:

- Some unit's brands have more than one code. If the unit does not function with a specified code, try other codes.
- Depending on the type of unit, some or all functions cannot be operated using this remote control.
- It's not possible to operate a unit not equipped with a remote sensor.
- It's not possible to set the remote control for two units at the same time
- Once you have set the remote control to operate the unit, you
 do not have to set it until you replace the batteries from the
 remote control.
- B.E.S.T. does not work when the satellite auto recording mode is engaged.

TV Brand Setting

Turn on TV

Turn on the TV using the Power button on the TV or its remote control.

2 Set TV brand code

- 1 Press and hold TV.
- Press the **Number keys** to enter your TV's brand code.
- Press **OK**, and release **TV**. The TV should turn off.

3 Operate TV

First, press **TV** to set the remote control to TV mode, then press one of the following buttons: 신기, **TV/VCR**, **TV PR+/-**, 섹/챟 (TV Muting), **TV** △+/-, and the **Number keys**.

 For some brands, you must press ENTER after having pressed the Number keys to enter a channel number.

TV BRAND	CODE	TV BRAND	CODE
JVC	01, 23, 24, 25	MITSUBISHI	03
AIWA	36	MIVER	29
BEIJING	22	NEC	20
CCE	02	NOBLEX	22
CHANGHONG	34	NOKIA	31
DAEWOO	17, 37	PANASONIC	04, 11
FERGUSON	27	PEONY	34, 38, 39
FINLUX	30	PHILICO	10, 17, 21
FUNAI	32	PHILIPS	02, 42
GRADIENTE	15	SAMSUNG	12, 33, 34, 35
GRUNDIG	19	SANYO	13, 16
HITACHI	10	SHARP	06
ITT	28	SONY	07
JINXING	38	TCL	41
KONKA	40	THOMSON	26
LG/GOLDSTAR	18	TOSHIBA	08, 14

Cable Box, Satellite Receiver or DVD Brand Setting

Turn on the unit

Turn on the cable box, satellite receiver or DVD using the Power button on the unit or its remote control.

2 Enter brand code

- 1 Press and hold CABLE/SAT/DVD.
- 2 Press the **Number keys** to enter your unit's brand code.
- 3 Press **OK**, and release **CABLE/SAT/DVD**.

3 Operate the unit

First, press **CABLE/SAT/DVD** to set the remote control to cable box, satellite receiver or DVD mode, then press one of the following buttons:

For satellite receiver and cable box . . .

이, TV PR+/-, Number keys.

For DVD...

 \circlearrowleft /I, \blacktriangleright , \blacksquare , II, $\blacktriangleright \blacktriangleright$, $\blacktriangleleft \blacktriangleleft$, $\circlearrowleft \triangleright$ (I $\blacktriangleleft \blacktriangleleft \blacktriangleright \blacktriangleright$ I) keys.

- For some brands, you must press ENTER after having pressed the Number keys to enter a channel number.
- To change the unit's channels, press TV PR+/- or the Number keys. (The PR+/- button can be used to change the recorder's channels only.)

CABLE BOX OR SATELLITE RECEIVER BRAND	CODE
JVC	72, 73,
AMSTRAD	60, 61, 62, 63, 92
BT	72
CANAL+	81
CANAL SATELLITE	81
D-box	85
ECHOSTAR	51, 78, 79, 80, 82
FINLUX	68
GALAXIS	69, 88
GRUNDIG	64, 65
HIRSCHMANN	64
ITT	68
JERROLD	01, 04, 06, 11, 12, 15, 28, 75
KATHREIN	70, 71
LUXOR	68
MASPRO	70
NOKIA	68, 87
PACE	67, 86, 92
PANASONIC	13, 14, 74
PFT	69
PHILIPS	66, 84
PHONOTREND	69
SALORA	68
SKYMASTER	69
TPS	83
VIDEOWAY WISI	03, 09, 22, 76, 77
VVISI	64
DVD DDANID	CODE

DVD BRAND	CODE
JVC	55
PANASONIC	58
PHILIPS	56
TOSHIBA	57

Changing Remote Control Code

This remote control is capable of transmitting two control codes; one set to respond to A code control signals and another set to respond to B code control signals. This remote control is preset to send A code signals because your recorder is initially set to respond to A code signals. You can easily modify your recorder and the remote control to respond to B code signals. When using **two JVC recorders**, set two recorders and their remote controls to different codes, so that you can operate these recorders separately.

Set remote control code for remote control

- Press and hold VCR
- Press the Number key "2".
- Press **OK**, and release **VCR**.
- The remote control now can transmit B code control signals.

2 Check remote control code for recorder

Press and hold ► on the recorder for more than 5 seconds while the recorder is turned off. The code currently set appears on the display panel.

Change code for recorder

Press any key on the remote control. The recorder now responds to B code control signals.

 To set the remote control and the recorder back to A code control signals, repeat the same procedure as shown above except pressing the Number key "1" in step 2 of ■.

To control two recorders with the same remote control

You can control two JVC recorders by switching the remote control code for the remote control between A and B (step 1), keeping two recorders to different control codes.

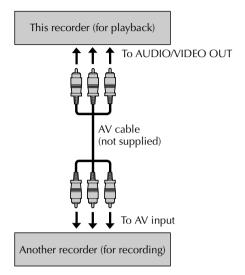
 To change only the remote control code for the remote control, DO NOT perform steps 2 and 3.

Editing

You can use your recorder as the playback or recording deck. You can use a camcorder as the source player and your recorder as the recording deck. Refer also to the other components' instruction manuals for connection and its operations.

Make connections

Example: When using this recorder as the source player



When using this recorder as the recording deck, connect this
recorder's AV input connectors to the AV output connectors on
the other recorder. If the source player is monaural, connect the
audio output connector on the source player to the left audio
input connector on this recorder.

2 Load cassettes

Insert the playback cassette into the source player and the cassette to be recorded on into the recording deck.

Select input mode on recording deck

Select the correct external input on the recording deck. Press AUX or PR+/-.

On this recorder (when using this recorder as the recording deck); Select "L-1" — when connecting the other recorder to the AV input connectors on the rear panel.

Select "F-1" — when connecting the other recorder to the AV input connectors on the front panel.

4 Select edit mode

Set the edit mode to "ON" for the recorders if such a mode is equipped.

• On this recorder, set "PICTURE CONTROL" to "EDIT" (F 10).

5 Start playback

Press ➤ on the source player.

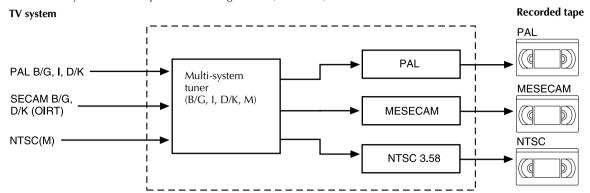
6 Start recording

Press ● on the recording deck.

Information on Multi-System Compatibility

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.

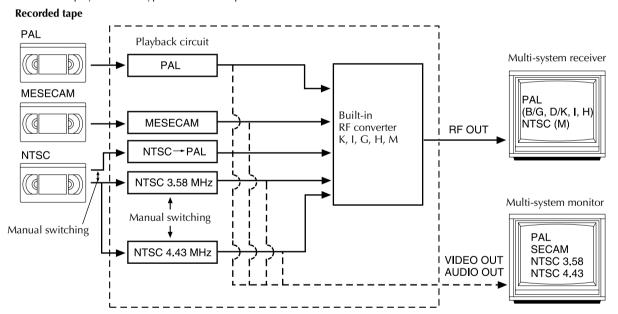


NOTE:

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:

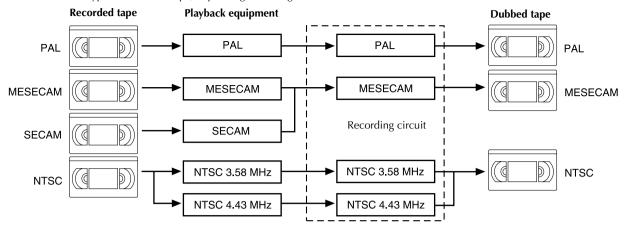
- The picture may shrink vertically with black bars appearing at the top and bottom of the screen. This is not a malfunction on the part of the video recorder nor the TV.
- The picture may roll up or down. This can be corrected using the V-HOLD control found on some TVs. (This cannot be corrected if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



Tuner Setting

IMPORTANT

Perform the following steps only if auto channel set has not been set correctly by Auto Set Up function 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 **PR+/**– buttons without going through any vacant channels.

MAIN MENU

TUNER SET

TV SYSTEM SELECT

FUNCTION SET

TUNER SET

INITIAL SET

[▲/▼] → Œ [MENU] : EXIT

CH FDIT

AUTO CH SET

[▲/▼] → ØK [MENU] : EXIT

Auto Channel Set

Access Main Menu screen, then Tuner Set screen

Press **MENU** on the remote control. Press $\triangle \nabla$ to place the pointer next to "TUNER SET", then press **OK** or \triangleright .

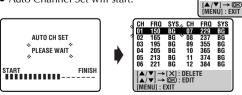
2 Perform Auto Channel Set

Press $\triangle \nabla$ to place the pointer next to "AUTO CH SET", then press \mathbf{OK} or \triangleright .

3 Select TV system

Press $\triangle \nabla$ to place the pointer next to the appropriate TV system, then press \mathbf{OK} or

• Auto Channel Set will start.



Press MENU to return to normal screen.

IMPORTANT

- If no sound accompanies the picture or the audio sounds unnatural on some channels that have been stored by Auto Channel Set, the TV system setting for those channels may be incorrect. Select the appropriate TV system for those channels. Refer to "TV System Selection — When you see the picture but the audio can't be heard or sounds unnatural" (ISF 15).
- Since your recorder memorises all detected stations even if the reception condition is poor, some of those stored stations may produce a noisy picture. To delete those stations, refer to "Delete A Channel" (2 15).

Manual Channel Set

Store channels that were not stored during Auto Set Up or Auto Channel Set.

Access Tuner Set screen

Perform step **1** of "Auto Channel Set".

2 Access channel list

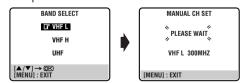
Press $\triangle \nabla$ to place the pointer next to "CH EDIT", then press **OK** or \triangleright .

3 Select position

Press $\triangle \nabla$ to place the pointer next to an open channel position, then press \mathbf{OK} or \triangleright .

4 Select band

Press $\Delta \nabla$ to place the pointer next to the band of your choice, then press \mathbf{OK} to initiate Manual Channel Set.



- Tuner Setting -

5 Set desired station

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

If you do not want to store the detected station...

Press $\triangle \nabla$ to place the pointer next to "CONTINUE", then press **OK** or \triangleright . Channel search will resume.

If you want to store the detected station...

Press $\triangle \nabla$ to place the pointer next to "STORE", then press **OK** or

- The blueback screen and the TV picture currently being broadcast appear alternately for 8 seconds each.
- If you want to store another channel, repeat steps **3 5**.
- When channel search completes for that band, the Band Select screen appears again. To set channels for other bands, select another band and start Manual Channel Set again (step 4

6 Return to normal screen

Press **MENU**.

Delete A Channel

Access Tuner Set screen

Perform step
of "Auto Channel Set".

2 Access channel list

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

3 Select channel

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

(CH	FRQ	SYS	, CH	FRQ	SYS	
01	150	BG	07	229	BG	
1 02	165	Вu	` 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	
$[A/V] \rightarrow [X]$: DELETE $[A/V] \rightarrow @E$: EDIT [MENU]: EXIT						
_						
LCH.	FRO	272	CH	FRO	272	
CH	FRQ	SYS		FRQ 229	SYS	
CH OI 02	FRQ 165	-	CH 07 08	FRQ 229 237	SYS BG	

F STORE

[▲/▼] → Œ [MENU] : EXIT

CONTINUE

4 Delete channel

Press X

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

5 Return to normal screen

Press MENU.

Swap Channel Positions

Example: To swap CH03 and CH09.

Access Tuner Set screen

Perform step 1 of "Auto Channel Set".

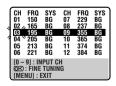
2 Access channel list

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

Select position (e.g. 03)

Press $\triangle \nabla$ until the section of CH "03" begins blinking, then press **OK** or \triangleright .

• Only "03" will blink.



4 Select position (e.g. 09)

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

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

[◀]: CANCEL ⓒK: OK [MENU]: EXIT

5 Store new positions

Press **OK** or ▷.

- Repeat steps **3 5** as necessary.
- 6 Return to normal screen

Press MFNU

Fine-Tuning Channels

Access Tuner Set screen

Perform step 1 of "Auto Channel Set".

2 Access channel list

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

Select channel to fine-tune

Press $\triangle \nabla$ until the channel you want to tune begins blinking, then press **OK** twice

• The "FRQ" number for that channel starts blinking.

٥.	01 02 03 04	FRQ 150 165 195 205	BG BG BG BG	CH 07 08 09 10	FRQ 229 237 355 365	SYS BG BG BG BG
	05 06	213 221	BG BG	11 12	374 384	BG BG
			INE TU CT SY XIT			

4 Perform tuning

Press $\triangle \nabla$ until the picture becomes clearer, then press **OK** or \triangleright . Repeat steps 3 and 4 as necessary.

5 Return to normal screen

Press MFNU.

TV System Selection — When you see the picture but the audio can't be heard or sounds unnatural

Access Tuner Set screen

Perform step ■ of "Auto Channel Set".

2 Access channel list

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

3 Select channel

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

 The "SYS" display for that channel starts blinking.

$\overline{}$					_
CH	FRQ.	∖SYS∠	CH	FRQ	SYS
01	150	BG	07	229	BG
02	165	≻BG `	08	237	BG
03	195	BĞ	09	355	BĞ
04	205	BG	10	365	BG
05	213	BĞ	11	374	BĞ
06	221	BĞ	12	384	BĞ
[]		ELECT			
	: OK	LLLUI	0101	LIN	
[MENU] : EXIT					
LIVIE	I : [UN	:AII			

4 Select TV system

Press $\triangle \nabla$ to select the appropriate TV system (BG \rightarrow DK \rightarrow I

- \rightarrow M). Then press **OK** or \triangleright .
- Repeat steps 3 and 4 as necessary.

5 Return to normal screen

Press MENU.

Specifications

GENERAL

Power requirement

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

Power consumption 16 W

Temperature

Operating : 5°C to 40°C -20°C to 60°C Storage Horizontal only Operating position

Dimensions (W x H x D): 400 mm x 94 mm x 265 mm

Weight : 2.9 kg Format VHS standard

Maximum recording time

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

(PAL/MESECAM)

160 min. with T-160 video cassette

(NTSC)

(LP) 480 min. with E-240 video cassette

(PAL/MESECAM)

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

(NTSC)

VIDEO/AUDIO

Signal system PAL-type colour signal and CCIR

monochrome signal, 625 lines

50 fields

NTSC colour and EIA monochrome

signals, 525 lines/60 fields

Recording system DA-4 (Double Azimuth) head helical

scan system Signal-to-noise ratio

Horizontal resolution : 250 lines (PAL/MESECAM)

: 220 lines (NTSC)

Frequency range

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

Input/Output RCA connectors (IN x 2, OUT x 1)

TUNER/TIMER

TV channel storage

capacity

: 99 positions (+AUX position)

Tuning system Channel coverage

VHF

: Frequency synthesized tuner

(Low) 42 MHz - 175 MHz

(High) 175 MHz - 470 MHz

UHF 470 MHz - 870 MHz

: UHF channels (Adjustable E28 – E60) Aerial output

Memory backup time Approx. 6 months

> Estimated figure based on supplied fresh battery; actual performance may

ACCESSORIES

Provided accessories RF cable,

> Lithium battery CR2025, Infrared remote control unit. "R6/UM-3" battery x 2,

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