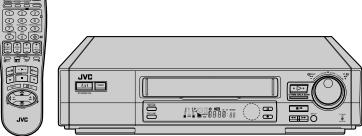
# JVC



# VIDEO CASSETTE RECORDER

# HR-S8500E/EH







# ENGLISH

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 $2_{EN}$ 

# **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.

#### WARNING

There are two different types of SECAM colour systems: SECAM-L, used in FRANCE (also called SECAM-West), and SECAM-B, used in Eastern European countries (also called SECAM-East).

- 1. This recorder can also receive SECAM-B colour television signals for recording and playback.
- 2. Recordings made of SECAM-B television signals produce monochrome pictures if played back on a video recorder of SECAM-L standard, or do not produce normal colour pictures if played back on a PAL video recorder with SECAM-B system incorporated (even if the TV set is SECAM-compatible).
- 3. SECAM-L prerecorded cassettes or recordings made with a SECAM-L video recorder produce monochrome pictures when played back with this recorder.
- 4. This recorder cannot be used for the SECAM-L standard. Use a SECAM-L recorder to record SECAM-L signals.

#### IMPORTANT

- Please read the various precautions on page 2 and 3 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.



- Cassettes marked "S-VHS" and "VHS" can be used with this video cassette recorder. However, S-VHS recordings are possible only with cassettes marked "S-VHS".
- SHOWVIEW is a trademark of Gemstar Development Corporation. The SHOWVIEW system is manufactured under licence from Gemstar Development Corporation.
- Certain audio features of this product manufactured under a license from Desper Products, Inc. Spatializer<sup>®</sup> is a trademark owned by Desper Products, Inc.

#### For Italy:

"It is declared that this product, brand JVC, conforms to the Ministry Decree n. 548 of 28 Aug.'95 published in the Official Gazette of the Italian Republic n. 301 of 28 Dec.'95"

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

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

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

#### 1. 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. DO NOT place heavy objects on the recorder or remote control.
- 4. DO NOT 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.

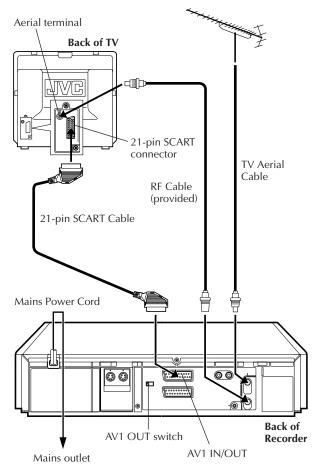
#### ABOUT HEAD CLEANING

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.

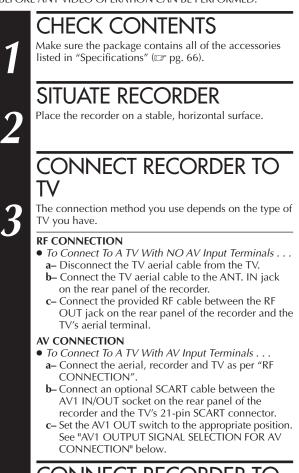
# $4_{EN}$

### INSTALLING YOUR NEW RECORDER

# Basic Connections



Make AV connection if your TV has a 21-pin AV input connector (SCART) in order to reduce the possibility of interference. And if you are using a stereo TV, you will need this cable in order to enjoy stereo playback of videotapes. It's essential that your video recorder be properly connected. Follow these steps carefully. THESE STEPS MUST BE COMPLETED BEFORE ANY VIDEO OPERATION CAN BE PERFORMED.



#### CONNECT RECORDER TO MAINS

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

After you plug the mains power cord into a mains outlet, the Country Set display appears on the TV screen and/or on the recorder's front display panel when the  $\emptyset/I$  button on the recorder/remote control is pressed for the first time to power on the recorder; go to page 6 to perform Auto Set Up.

#### AV1 OUTPUT SIGNAL SELECTION FOR AV CONNECTION

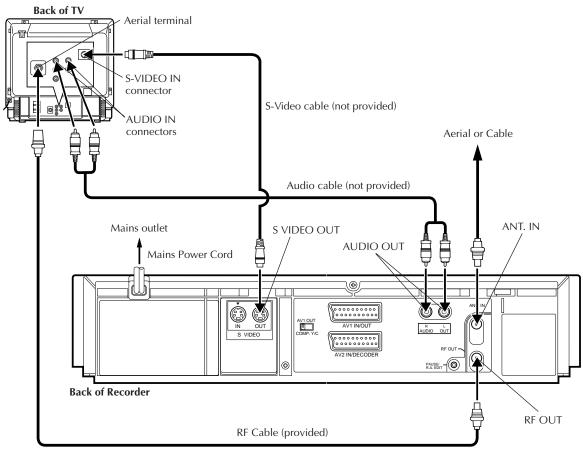
The AV1 IN/OUT connector accepts only a composite signal (regular video signal), but can deliver either a composite video signal or a Y/C signal (a signal in which the luminance and chrominance signals are separated) according to the setting of the rear panel **AV1 OUT** switch.

- If your TV's 21-pin AV input connector (SCART) is compatible only with the regular video signal, set this switch to COMP.
- If your TV's 21-pin AV input connector (SCART) is compatible with the Y/C signal, set this switch to Y/C. You can obtain highquality S-VHS pictures. (For connection, be sure to use a 21-pin SCART cable that is compatible with the Y/C signal.)

#### **NOTES:**

- Set your TV to the VIDEO (or AV), Y/C, or RGB mode according to the type of your TV's SCART connector.
- For switching the TV's mode, refer to the instruction manual of your television.
- To obtain high-quality S-VHS pictures, you can also use the S-VIDEO CONNECTION described on page 5.

# **S-VIDEO** Connection



• To Connect to A TV With S-VIDEO/AUDIO IN Connectors . . .

# CONNECT RECORDER TO

- a– Connect the aerial, recorder and TV as per "RF CONNECTION" (127 pg. 4).
- **b** Connect the recorder's S VIDEO OUT connector to the TV's S-VIDEO IN connector.
- c- Connect the recorder's AUDIO OUT connectors to the TV's AUDIO IN connectors.

### CONNECT RECORDER TO MAINS

2

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

#### **NOTES:**

- You can obtain high-quality S-VHS pictures.
- If your television is not stereo-capable, use the recorder's AUDIO OUT connectors to connect to an audio amplifier for Hi-Fi stereo sound reproduction. (27 pg. 48)
- To operate the recorder with your TV using the S-VIDEO connection, set your TV to the VIDEO (or AV mode).
- For switching the TV's mode, refer to the instruction manual of your television.

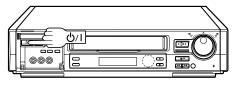
After you plug the mains power cord into a mains outlet, the Country Set display appears on the TV screen and/or on the recorder's front display panel when the 0/1 button on the recorder/remote control is pressed for the first time to power on the recorder; go to page 6 to perform Auto Set Up.

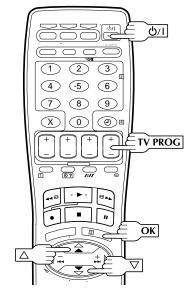
### INITIAL SETTING

# 6 EN

# Auto Set Up

Auto Channel Set/Auto **Clock Set/Auto Guide Program Number Set/Auto** Video Channel Set





International Telephone Country Code				
SUISSE	:41	SUOMI	: 358	
ITALIA	: 39	PORTUGAL	: 351	
ESPAÑA	:34	DEUTSCHLAND	: 49	
BELGIUM	:32	NORGE	:47	
NEDERLAND	:31	SVERIGE	: 46	
GREECE	:30	DANMARK	:45	
OTHERS	:	ÖSTERREICH	:43	

### ATTENTION

Once you have performed Auto Set Up, even if the recorder's memory backup has expired, all the stored stations and their Guide Program numbers remain in the recorder's memory and the recorder will not perform Auto Set Up again. You only need to set the clock. (IF pg. 58)

If you have moved to a different area, perform each setting as required.

- Video Channel setting (for RF connection users) I pg. 49
- Tuner setting 🖙 pg. 50
- Clock setting I pg. 58

If a new station starts broadcasting in your area, perform tuner setting (EF pg. 50) and, if necessary, video channel setting (IF pg. 49).

When the U/I 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 Country Set display will appear on the TV screen and the recorder's front display panel. By simply selecting your country\*, the Auto Set Up function sets the tuner channels, clock, Guide Program numbers and video channel\*\* automatically.

- \* If you live in Belgium (BELGIUM) or Switzerland (SUISSE), you also need to select your area.
- \*\* Useful if you have connected the video recorder to your TV via RF connection (EF pg. 4). 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.

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.
- If you want to use the on-screen display, the TV should be set to its AV mode (with AV or S-VIDEO connection IF pg. 4 or 5) or UHF channel 36 (with RF connection r pg. 4).

#### TURN ON THE RECORDER

Press  $\oplus/I$  on the recorder or remote control. The Country Set display appears on the front display panel and/or on the screen.

## NOTE:

If you have connected your TV to the recorder with RF connection and the onscreen display appearing on UHF channel 36 looks distorted, perform this procedure referring to the front display panel.

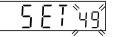


#### SELECT COUNTRY

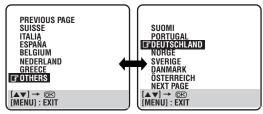
If you are referring to the front display panel

Press  $\Delta \nabla$  to select your international telephone country code of your country referring to the chart in the left column.

- If you have selected a country code other than 32 (BELGIUM) or 41 (SUISSE), go to step 4.
- If you have selected 32 (BELGIUM) or 41 (SUISSE), go to step 3.
- (Ex.) DEUTSCHLAND is selected

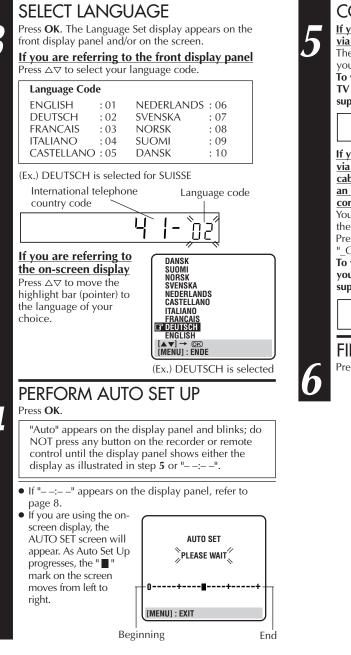


If you are referring to the on-screen display Press  $\Delta \nabla$  to move the highlight bar (pointer) to your country's name.



- If you have selected a country other than BELGIUM or SUISSE, go to step 4.
- If you have selected BELGIUM or SUISSE, go to step 3.





#### NOTES:

- Auto channel set function takes place first; it assigns automatically all receivable stations in your area.
- Auto clock set function sets the clock automatically by reading the clock setting data from a station transmitting a PDC signal while auto channel set is being performed.
- During auto channel set, the recorder recognizes each station name of the detected stations and stores them in the recorder's memory, then automatically sets SHOWVIEW assigned Guide Program number for those stations according to the broadcast area.
- In the area where no TV station transmits a PDC signal, the recorder can perform neither auto clock set nor auto Guide Program number set.
- For RF connection users: The video recorder detects the channels which are not occupied by local stations and selects one channel automatically for your Video Channel that is located in the middle of more than 5 vacant channels.
- If there is a power cut, or if you press  $\bigcirc$ /1 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 from step **1**.

#### CONFIRM/SET VIDEO CHANNEL

If you have connected the video recorder to your TV via the provided RF cable only (RF connection) The UHF channel that is shown on the display panel is

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

TV to the Video Channel. — Refer to the instructions supplied with your TV set for how to do this.



If you have connected the video recorder to your TV via both the provided RF cable and a 21-pin SCART cable (AV connection), or via the provided RF cable, an S-Video cable and an audio cable (S-VIDEO connection)

You do not need the video channel so you have to set the video channel to off.

Press **TV PROG** – until the display panel shows " OUT––" to set the Video Channel to off.

To view picture signals from the video recorder, set your TV to its AV mode. — Refer to the instructions supplied with your TV set for how to do this.



#### FINISH AUTO SET UP

Press **OK** and refer to page 8 to check the results.

# S EN

## **INITIAL SETTINGS (con**

#### Auto Set Up results appear on the front display panel

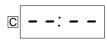


When both auto channel set and auto clock set have been completed successfully the correct current time will be displayed after the OK button is pressed in step 6 on page 7.

L

В

When auto channel set has been completed successfully but auto clock set has not, "1" (channel position) will be displayed after the OK button is pressed in step 6 on page 7.



When neither auto channel set nor auto clock set has been completed successfully, "--:--" will be displayed.

You can check if the Guide Program numbers have been set correctly when you perform SHOWVIEW Timer Programming (27 pg. 26); if the correct channel position number is displayed in step 3, this confirms that the Guide Program number for the SHOWVIEW number you enter in step 2 has been set correctly.

#### A If both auto channel set and auto clock set have been performed successfully:

- 1 Turn on the TV and select its VIDEO channel or AV mode, then make sure that all necessary stations have been stored in the recorder's memory by using the **TV PROG** button(s).
  - If station names (ID 🖙 pg. 55) have also been stored in the recorder's memory, the station name will be displayed at the top left corner of the screen for about 5 seconds when the recorder is tuned to a different station.
  - If you want to set the tuner manually such as to add or skip channels, to change channel positions, or to set or change station names, see pages 52 - 56.

#### B If auto channel set has succeeded but auto clock set has not:

- 1 Turn on the TV and select its VIDEO channel or AV mode, then make sure that all necessary stations have been stored in the recorder's memory by using the **TV PROG** button(s).
  - If station names (ID ir pg. 55) have also been stored in the recorder's memory, the station name will be displayed at the top left corner of the screen for about 5 seconds when the recorder is tuned to a different station.
  - If you want to set the tuner manually such as to add or skip channels, to change channel positions, or to set or change station names, see pages 52 - 56.
- <sup>2</sup> Perform "Clock Set" on page 58.

#### C If both auto channel set and auto clock set have failed:

- 1 Make sure the TV aerial cable is connected properly to the recorder and turn off the recorder power once, then turn the recorder power back on again.
  - The Country Set display appears on the front display panel and/or on the screen; perform steps 2 6 on pages 6 7 again.

#### IMPORTANT

- In certain reception conditions, station names may not be stored correctly, and auto Guide Program Number Set may not work properly. If the Guide Program numbers are not set properly, when you timer-record a TV programme using SHOWVIEW, the recorder will record a TV programme of a different station. When programming the timer using SHOWVIEW, be sure to check whether the channel position on which your recorder receives the broadcasting station you wish to record is selected (CF pg. 26, "SHOWVIEW Timer Programming").
- Your video recorder memorizes all detected stations even if reception of some of them is poor. In these cases picture quality may be poor. To delete those stations with an unacceptable picture III "Delete A Channel" on page 53.
- For RF connection users: In certain reception conditions, the Video Channel may not be set correctly and interference may appear in the TV picture while the recorder's power is on. Set your Video Channel manually. IF pg. 49, "Video Channel Set".

#### INFORMATION

#### Language for the on-screen display

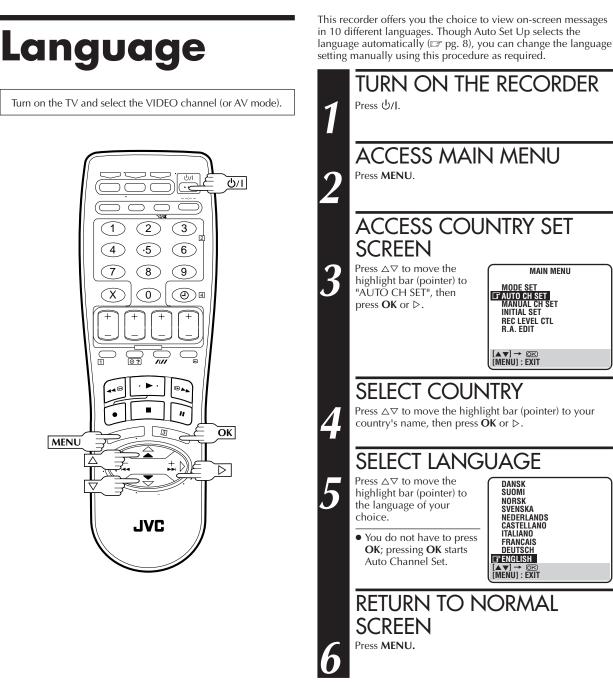
Auto Set Up also selects the language automatically for the on-screen display depending on the Country setting you have made in step 2 on page 6 (unless you have selected BELGIUM or SUISSE), as shown below.

SUOMI		SUOMI	SVERIGE		Svenska	ESPAÑA	 CASTELLANO
PORTUGAL		ENGLISH	DANMARK		DANSK	NEDERLAND	 NEDERLANDS
DEUTSCHLAND		DEUTSCH	ÖSTERREICH		DEUTSCH	GREECE	 ENGLISH
NORGE		NORSK	ITALIA		ITALIANO	OTHERS	 ENGLISH
If you want to change the language setting manually 🖙 "Language" on page 9							

If you want to change the language setting manually, 🖙 "Language" on page 9.

#### lust Clock

Your recorder is equipped with the Just Clock function which provides accurate time keeping through automatic adjustments at regular intervals, by reading data from a PDC signal. If you want to take advantage of this function, simply set it to "ON". □ "Just Clock" on page 58.

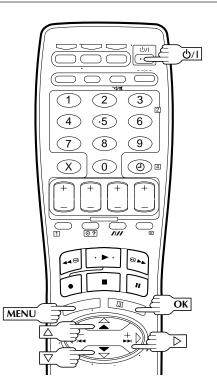


# $10_{EN}$

## **INITIAL SETTINGS (cont.)**

# **On-Screen** Displays

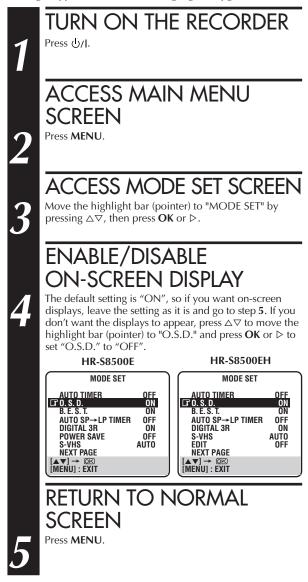
Turn on the TV and select the VIDEO channel (or AV mode).



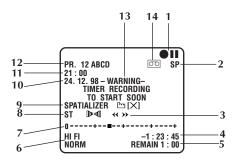
#### **NOTES:**

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

You can choose whether or not to have various operational indicators appear on screen, by setting this function ON or OFF. Messages appear in the selected language (IF pg. 8 or 9).



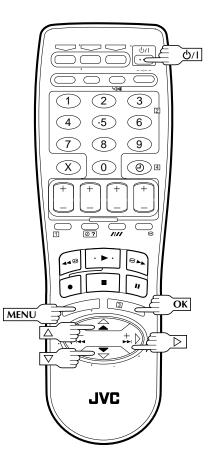
#### The superimposed indication on the TV screen tells you what the recorder is doing.



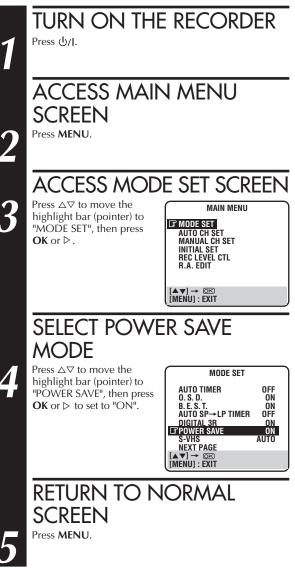
- 1- Operation mode indicators
- 2- Tape speed SP/LP/EP (EP is for NTSC playback only)
- 3- Tape direction
- 4- Counter display
- 5- Tape remaining time indicator (27 pg. 21)
- 6- Audio mode display (17 pg. 17)
- 7- Tape position indicator (IP pg. 13)
- 8– Type of Broadcast (E7 pg. 23)
- 9– Spatializer<sup>®</sup> indicator (E₹ pg. 17) 10– Current day/month/year
- 11– Clock display
- 12- Channel position number and station name/Aux. indicator (L-1, L-2, F-1 or S-1)
- 13- Timer warning display (Er pg. 27, 29)
- 14- Cassette loaded mark

# Power Save Mode (HR-S8500E only)

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



You can reduce the power consumption while the recorder is turned off.



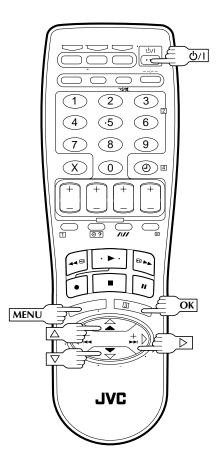
#### **NOTES:**

- During Power Save, the display panel will be turned off.
- The Just Clock function ( r pg. 58) does not work while the Power Save mode is engaged.
- While the recorder is in the Power Save mode, the picture may be distorted momentarily when you turn on/off the recorder.
- Power Save does not work when ...
  - ... the recorder is in the Timer mode.
  - ... the recorder's power is turned off after timer-recording (or Instant Timer Recording).
  - ... the Auto Satellite Prog Recording mode is engaged (IF pg. 32).
  - ... "AV2 SELECT" is set to "DECODER" or "SAT" (I pg. 39).

# $12_{\scriptscriptstyle EN}$

## INFORMATION ON COLOUR SYSTEM

# Colour System Set



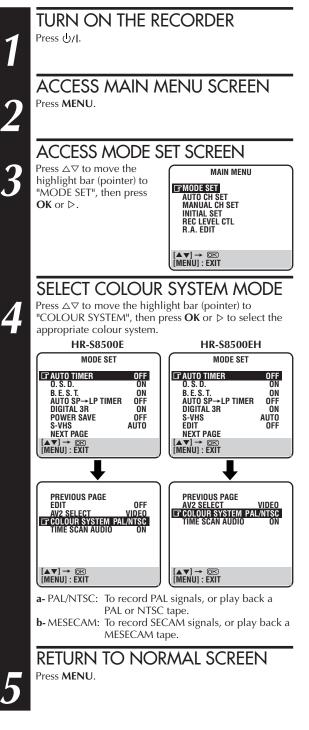
#### **NOTES:**

#### About NTSC Playback

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

You can play back PAL, NTSC and MESECAM tapes, or record PAL and SECAM\* signals on this recorder. Follow the procedure below to select the appropriate colour system.

SECAM signals will be recorded as MESECAM on this recorder; MESECAM is the designation for tapes with SECAM signals that have been recorded on a MESECAM-compatible PAL video cassette recorder.

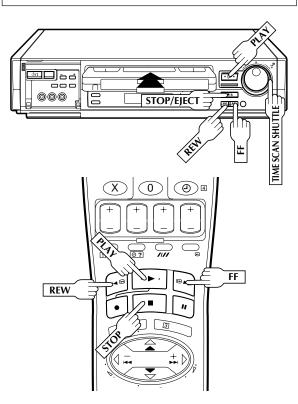


## PLAYBACK

# en 13

# Basic Playback

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



#### **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 " $\blacksquare$ " in relation to "0" (beginning) or "+" (end) shows you where you are on the tape.

"O.S.D." (🖙 pg. 10) must

indicator will not appear.

be set to "ON", or the

n 0------REMAIN 2:35 Beginning End

#### NOTE:

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

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.
- If the record safety tab has been removed, playback begins automatically.

### FIND PROGRAMME START POINT

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

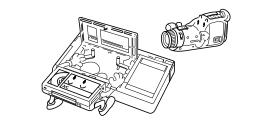
## START PLAYBACK

Press **PLAY**. "BEST" appears blinking in the recorder's display panel during automatic tracking. (**C** pg. 24)

## STOP PLAYBACK

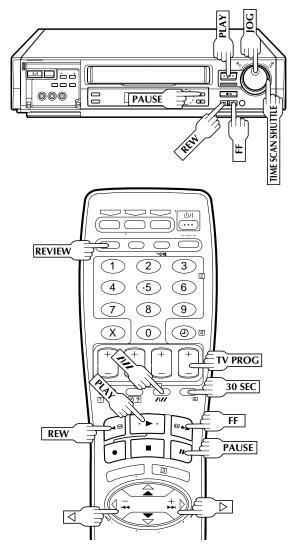
Press **STOP** on the remote or **STOP/EJECT** on the recorder's front panel. Then press **STOP/EJECT** to remove the cassette.

#### 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. While only VHS signals can be recorded on regular VHS cassettes, both VHS and Super VHS signals can be recorded and played back using Super VHS cassettes.

# Playback Features



#### ATTENTION

- Picture may not appear during high-speed search with an LP-recorded tape.
- In the high-speed search, still, slow motion or frame by frame playback mode, the picture will be distorted, and there will be a loss of colour.
- When normal playback resumes from search, still, slow motion or frame-by-frame playback, the picture may jitter vertically momentarily depending on the type of TV being used.

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

# PAUSE DURING PLAYBACK

Press PAUSE.

- During still picture, the sound from the previous 3 seconds (approx.) will be played back repeatedly (provided there was at least 6 seconds of normal playback prior to engaging the still picture mode). However, the TIME JOG & SCAN indicator will not light.
- "TIME SCAN AUDIO" must be set to "ON", or the sound will not be heard. (IF pg. 19)

## ACTIVATE FRAME-BY-FRAME PLAYBACK

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

OR Press PAUSE. OR Press ⊲ or ▷.

To resume normal playback, press PLAY.

## **Slow Motion**

#### ACTIVATE SLOW-MOTION PLAYBACK

#### OR

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

#### OR

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

#### OR

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

To resume normal playback, press PLAY.

#### NOTE:

For Time Jog, see page 19.

# **High-Speed (Turbo) Search**

## **ACTIVATE HIGH-SPEED** SEARCH

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

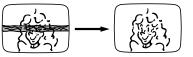
To resume normal playback, press PLAY.

#### NOTE:

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

## **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 *I*/// on the remote to engage manual tracking.

## **ADJUST TRACKING** MANUALLY

Press TV PROG + or - to adjust tracking.

## **RETURN TO AUTOMATIC** TRACKING

Press //// on the remote to re-engage automatic tracking.

#### NOTE:

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

## **Skip Search**



Press 30 SEC 1 to 4 times during playback. Each press initiates a 30-second period of fast-motion playback. Normal playback resumes automatically.

#### NOTE:

To return to normal playback during a Skip Search, press PLAY.

## **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.





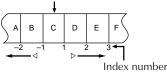
ACTIVATE INDEX SEARCH Press  $\triangleleft$  or  $\triangleright$  ( $\bowtie \triangleleft$  or  $\triangleright \bowtie$ ). " $\bowtie \triangleleft 1$ " or " $\triangleright \bowtie \bowtie 1$ " is

displayed on screen and search begins in the corresponding direction.

• To access index codes 2 through 9, press  $\triangleleft$  or  $\triangleright$ repeatedly until the correct index number is displayed. Ex.: To locate the beginning of B from the current

position, press ⊲ twice. To locate the beginning of D from the current position, press  $\triangleright$  once.

Current position



 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 REVIE

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.

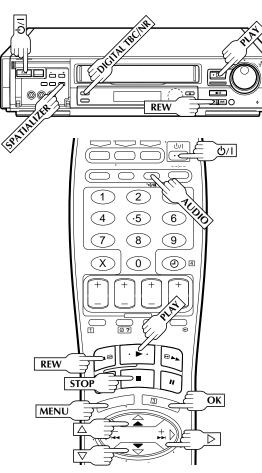
• The front display panel tells you how many programmes have been timer-recorded. If you have, for example, 3 programmes, "REVIEW" and "3" appear and blink. To watch the first of the 3 programmes, press REVIEW three times. The recorder searches and begins playback automatically. You can access a programme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

#### **NOTES:**

- Instant ReView is not possible while the recorder is in the Timer mode.
- The number of recorded programmes will not be displayed on the front display panel after Auto Satellite Prog recording (🖙 pg. 32).

# 16 EN

PLAYBACK (cont.)



## **Digital TBC/NR**

Your video recorder is equipped with the Digital TBC (Time Base Corrector) that removes jitter from fluctuating video signals to deliver a stable picture even with old tapes and rental cassettes.

The on/off of Digital 3-DNR (Noise Reduction) which cuts noise and enables clear picture reproduction is also linked to this function.

\* The default setting is "ON".

We recommend that you use the Digital TBC feature when... ... playing back a tape recorded on a camcorder.

- ... playing back a tape repeatedly used.
- ... using this video recorder as the player for editing.



ACTIVATE DIGITAL TBC/NR

Press **DIGITAL TBC/NR** so that the button lights up.

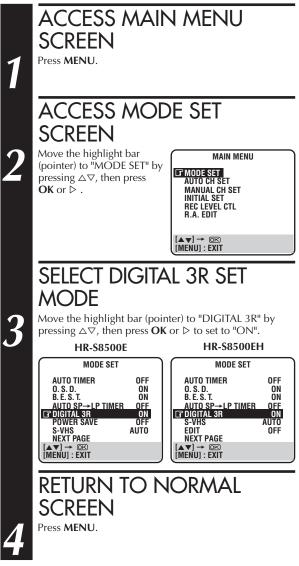
• To turn off DIGITAL TBC/NR, press **DIGITAL TBC/NR** again so that the light goes off.

#### **NOTES:**

- If you play back a tape recorded under poor TV reception condition, there may be cases where the picture becomes more stable with Digital TBC/NR set to off.
- When Digital TBC/NR is set to on, if you play back a tape where certain types of signals are recorded (using a PC or some character generators), the playback picture may be distorted. If this is the case, turn off Digital TBC/NR.
- When playing back a MESECAM tape, Digital TBC/NR does not function even though the TBC/NR button is lit.

## **Digital 3R**

Digital 3R picture system applies edge correction to the luminance signal to enhance detail.



#### **NOTES:**

- Normally it is recommendable to keep "DIGITAL 3R" set to "ON".
- Depending on the type of tape being used, picture quality may be better with "DIGITAL 3R" set to "OFF".



## **Spatializer**<sup>®</sup>

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

### ACTIVATE SPATIALIZER®

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

- To view a stereo programme such as movies or music, select "SPATIALIZER ID ♥ ♥ ♥ to create more spacious sound.
- To view a monaural programme, select "SPATIALIZER --- ST" which simulates a stereo effect.
- Select "SPATIALIZER OFF" to turn off Spatializer<sup>®</sup> if the sound becomes unnatural with either "SPATIALIZER ID ♥ ♥ or "SPATIALIZER → ST" selected.
- If your TV is equipped with 3D-PHONIC and if you use both Spatializer<sup>®</sup> and 3D-PHONIC at the same time, the sound may become unnatural; set either function to "OFF".
- The setting will remain effective even though you turn on/off the recorder.

#### **NOTES:**

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

## **Repeat Playback**

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



START PLAYBACK Press PLAY.



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

#### STOP PLAYBACK



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

#### NOTE:

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

## **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 0/1 within 2 seconds.

## **Soundtrack Selection**

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

#### During Playback

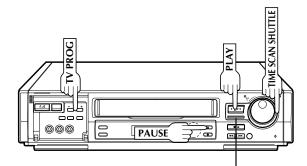
Pressing AUDIO on the remote control changes the soundtrack being played back as follows:

TRA	ACK		NOTES
Recorder's Front Panel	On-Screen Display	USE	• "D + I "sl In this mod
$\square + \blacksquare$	HIFI LD™ ⊄ปR	For Hi-Fi stereo tapes	played bac audio tracl
Д	HIFI L DP	For main audio of Bilingual tapes	automatica normal auc
P	HI FI ଐ R	For sub audio of Bilingual tapes	• For instruction and biling
NORM	NORM	For audio-dubbed tapes	page 23. ● "O.S.D." n
▶ + <b>◄</b> + NORM	HI FI NORM	For audio-dubbed tapes	on-screen (C3 pg. 10

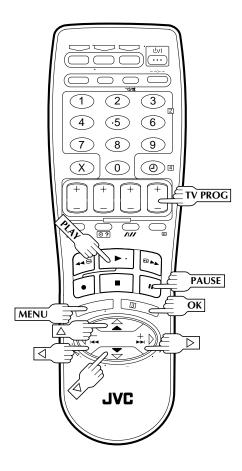
- ▷ + ☑ " should normally be selected. In this mode, Hi-Fi stereo tapes are played back in stereo, and the normal audio track is played back automatically for tapes with only normal audio.
- For instructions on recording stereo and bilingual programmes, refer to page 23.
- "O.S.D." must be set to "ON" or the on-screen displays will not appear (27 pg. 10).

## PLAYBACK (cont.)

# TimeScan



TIME JOG & SCAN INDICATOR



Your recorder is equipped with the TimeScan function. TimeScan allows noise free pictures to be displayed on your TV screen in the forward and reverse search modes. Audio will be played back at normal speed during the TimeScan modes (III) pg. 19). TimeScan also allows you to view a programme in search mode while listening to the audio.

#### **NOTES:**

- "TIME SCAN AUDIO" must be set to "ON", or the sound will not be heard in TimeScan mode. (☞ pg. 19)
- The audio will not synchronize with the video in TimeScan modes.
- In Pause mode 3 seconds (approx.) of audio will be played back repeatedly. (17 pg. 14)
- In TimeScan search modes some of the audio information will not be played so that the audio can keep up with the video.

23

#### Audio signal during TimeScan

Playback tape

buck tupe

Sound of ①, ③ and ⑤ is heard. Sound of ② and ④ is not heard. Output audio signal is normal (monaural) sound.

(4) (5)

## Variable-Speed Search



During playback, turn the recorder's **TIME SCAN SHUTTLE** ring. It remains at that position even after you release it. Each time it passes a click position, the playback speed changes.

(Refer to the chart on pg 19 for playback speeds). **OR** 

During playback, press  $\triangleleft$  or  $\triangleright$ .

- The more times you press, the faster the playback picture moves.
- To decrease speed, press the button for the opposite direction.
- (Refer to the chart on pg 19 for playback speeds).

To resume normal playback, press PLAY.

#### If the picture jitters vertically during still or variablespeed search with a MESECAM tape:

Press **TV PROG +** or – so that the vibration stops.

## **TimeScan**

Names of		Reverse				Forw	ard
special-effects playback	Search	Play	Slow-Motion (Time Jog**)	*Still	Slow-Motion (Time Jog**)	Play	Search
Speed SP	-9x   -7x   -5x   -3x	-1x	-1/2x	0	1/2x	1x	1.5x 2x 13x 15x 17x 19x
Speed LP	-7x -3x		-1/2x	0	1/2x	1x	1.5x 2x 5x 9x
Audio output	Audio is out	out.	Audio is not output.	Audio is output.	Audio is output.		Audio is output.

\* Still mode cannot be engaged using the remote control's ⊲ or ▷ button. Still mode can be engaged by pressing the **PAUSE** button. In the Still mode, the TIME JOG & SCAN indicator does not light even though you can hear TimeScan audio.

\*\* Smooth slow motion delivering an uninterrupted moving image without distortion.

- The recorder's TIME JOG & SCAN indicator lights during TimeScan.
- The speed is shown during TimeScan in the upper right corner of the TV screen for approx. 5 seconds. (The display may be distorted.)
- To resume normal playback, press **PLAY**.
- When using the recorder's **TIME SCAN SHUTTLE** ring, the playback speed may not change in the correct step if it is turned too fast.
- Picture and audio may become distorted when the recording speed changes. When this happens, resume normal playback once, and then try using TimeScan again.
- The picture may be noisy or there may be a loss of colour when you change the playback speed. (More noise will appear with LP recordings.)
- Noise may appear or the upper part of the picture may be distorted during still, frame-by-frame playback, 2x search of LP recordings, or depending on the tape being used.
- Picture may appear distorted in comparison to normal playback.
- When normal playback resumes from search (including TimeScan), still, slow motion or frame-by-frame playback, the picture may jitter vertically momentarily depending on the type of TV being used.
- In TimeScan mode there will be a time lag between the video and the audio and noise may appear in the audio signal.
- TimeScan sound quality will differ in comparison to normal playback.
- When material such as music videos where there is non-stop sound (very few breaks in the soundtrack) are viewed at 1.5x or 2x normal speed, the audio playback may be faster than normal.
- Depending on the type of tape contents, the sound may not be clear during forward slow-motion playback.
- Time Jog cannot be activated by pressing **PAUSE** for longer than 2 seconds.
- When the playback direction is reversed, it takes approximately 6 seconds until sound is heard.
- Picture will be monochrome with an LP-recorded MESECAM tape during TimeScan.
- When playing back an NTSC tape, the speeds differ from those listed above and are not shown on the TV screen, and the TIME JOG & SCAN indicator does not light.

Also, depending on the type of tape being used, the picture may be distorted and there may be a loss of colour even when in the TimeScan mode.

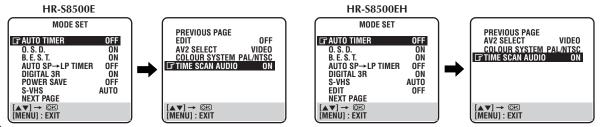
• TimeScan at -1/2x, 1/2x and 1.5x normal speed are not possible with a MESECAM tape.

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

#### **TimeScan Audio**

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

- \* The default setting is "ON".
- 1 Press **MENU** to access the Main Menu screen.
- 2 Move the highlight bar (pointer) to "MODE SET" by pressing  $\Delta \nabla$ , then press **OK** or  $\triangleright$ .
- 3 Move the highlight bar (pointer) to "TIME SCAN AUDIO" by pressing  $\triangle \nabla$ , then press **OK** or  $\triangleright$  to select "ON" or "OFF".
- 4 Press **MENU** to return to the normal screen.

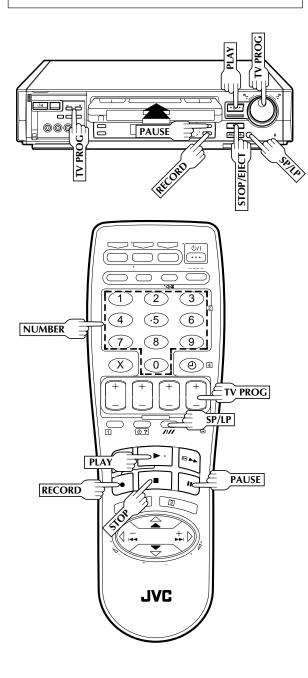


### RECORDING

# Basic Recording

 $20_{\scriptscriptstyle EN}$ 

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.



Insert a cassette with the record safety tab intact.

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

#### CHOOSE A PROGRAMME

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

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

#### SET TAPE SPEED

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

## START RECORDING

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

B.E.S.T. takes place at the beginning of both the first SP and the first LP recording after inserting the cassette ( $\square P$  pg. 24).

## PAUSE/RESUME RECORDING

Press PAUSE. Press PLAY to resume recording.

### STOP RECORDING

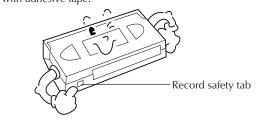
Press **STOP** on the remote control or **STOP/EJECT** on the recorder. Then press **STOP/EJECT** to remove the cassette.

#### **Recording Resume Function**

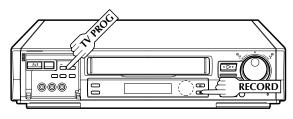
If there is a power outage during recording (or Instant Timer Recording or timer recording), the recording will resume automatically when power is restored to the recorder unless the recorder's memory backup has expired.

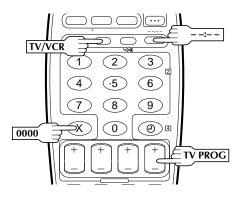
#### Accidental erasure prevention

• 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





# Instant Timer Recording (ITR)

This easy method lets you record for from 30 minutes to 6 hours (selectable in 30-min. increments), and shuts the recorder off after recording is finished.



## START RECORDING

Press **RECORD** on the recorder.

## ENGAGE ITR MODE

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

## SET RECORDING DURATION

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

#### NOTE:

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

#### Record One Programme While Watching Another

If your recorder is connected to the TV via AV connection, . . . . . . press **TV/VCR**. The recorder's VCR indicator and the TV broadcast being recorded disappear.

#### 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.
- If a decoder is connected to the recorder (IIP pg. 47), you can select a scrambled channel as well with the TV channel controls.

### Elapsed Recording Time Indication

You can check the exact time of a recording.

## SET COUNTER DISPLAY

1 P d

Press – – – – until a counter reading appears on the dispay panel.

## RESET COUNTER

Press **0000** before starting recording or playback.

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

# Tape Remaining Time

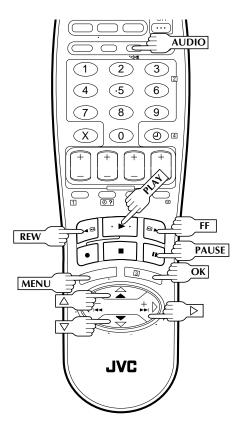
## DISPLAY REMAINING TIME

Press – –:– – until the time remaining on the tape appears.

- The display panel shows the tape remaining time with "b" " displayed.
- By pressing the -:- button, you can change the display to show the counter reading, channel position\*, clock time or tape remaining time.
   \* channel position is not displayed during playback.

#### NOTE:

Depending on the type of tape used, there may be times when the tape remaining time reading may not appear right away, or is not correct. "--:--" may sometimes appear, or the display may blink on occasion.



## Retake

You can cut out unnecessary parts of a  $\mathsf{TV}$  programme while you're recording it.

 End of programme
 Beginning of programme

 Programme
 Unnecessary

 part
 Programme

Recorded part Go back to end of programme to cut out unnecessary part

#### ENGAGE RECORD-PAUSE MODE

Press PAUSE during recording.

# LOCATE START POINT

Hold down **REW** or **FF** and release it when you reach the point where you want to resume recording. \* Your recorder returns to the Record-Pause mode.

# RESUME RECORDING

Press **PLAY** when you wish to resume recording.

RECORDING (cont.)

# S-VHS (Super VHS) and VHS

Your recorder can record in either S-VHS or VHS.

#### To record in S-VHS:

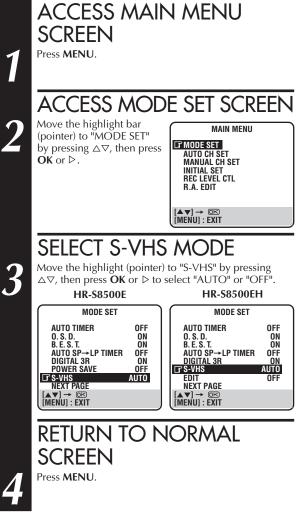
Perform the steps **1** – **4** below to set "S-VHS" to "AUTO". Then, insert a cassette marked "S-VHS", the S-VHS indicator will light on the display panel. The S-VHS recording mode will be selected.

#### To record in VHS:

Insert a cassette marked "VHS". The VHS recording mode will be automatically selected regardless of the S-VHS mode setting.

#### To record in VHS on an S-VHS cassette:

Insert the cassette marked "S-VHS", the S-VHS indicator will light on the display panel. Then, perform the steps 1 - 4 below to set the "S-VHS" to "OFF"; the S-VHS indicator will go out. The VHS recording mode will be selected.

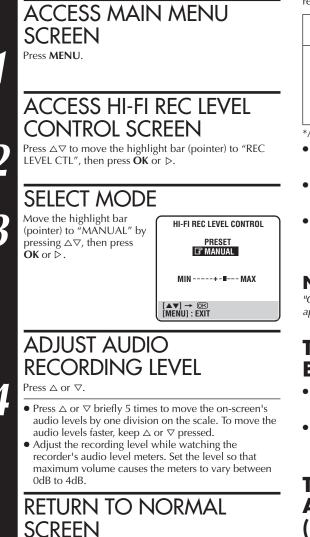


#### NOTE:

When playing back a tape that has been recorded in S-VHS, the S-VHS indicator lights on the display panel regardless of the "S-VHS" mode setting.

#### Hi-Fi Audio Recording Level Control

Your recorder allows manual adjustment of the Hi-Fi audio recording level. Normally the preset audio recording level is satisfactory, but if the sound you are going to record is too loud or too low, adjust the audio recording level while referring to the recorder's audio level meters.





Press MENU.

#### NOTE:

Noise will increase if the recording level is too low, while distortion will increase if the level is too high.

### Receiving Stereo And Bilingual Programmes

Your recorder is equipped with a Sound-Multiplex decoder (A2) and, if you own the HR-S8500EH, 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)
*NICAM Stereo	ST NICAM
*NICAM Bilingual	BIL NICAM
*NICAM Monaural	NICAM

\*Available with HR-S8500EH only.

- To listen to a stereo programme, press AUDIO until "▷" and "<br/>
  "<br/>
  "<br/>
  appear on the front display panel or "HIFI L ▷ ♥ R"<br/>
  appears on the screen.
- To listen to a bilingual programme, press **AUDIO** until "▶" or "ⓓ" appears on the front display panel, or "HIFI L №" or "HIFI ◀ R" appears on the screen (as required).
- To listen to the Standard (regular monaural) audio while receiving a NICAM broadcast, press **AUDIO** until "NORM" appears on the front display panel or on the screen. (HR-S8500EH only)

#### NOTE:

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

### 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 (HR-S8500EH only)

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

#### **NOTES:**

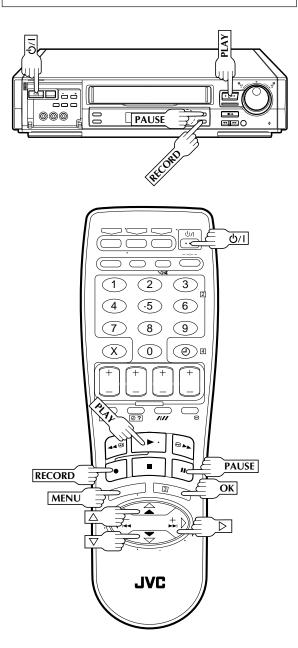
- If the quality of stereo sound being received is poor, the broadcast will be received in monaural with better quality.

 $24_{\rm EN}$ 

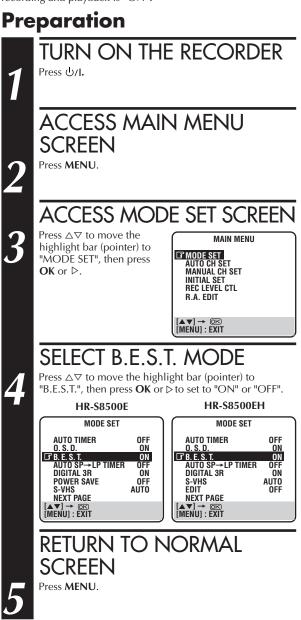
## RECORDING (cont.)

# B.E.S.T. Picture System

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



The B.E.S.T. (Biconditional Equalised Signal Tracking) system checks the condition of the tape in use during recording and playback, and compensates to provide the highest-possible recording and playback pictures. The default setting for both recording and playback is "ON".

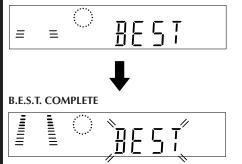


## Recording

#### START RECORDING

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

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



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

#### **NOTES:**

- The B.E.S.T. system works for both SP and LP modes only after a tape has been inserted and the Record mode is first initiated. It does not work during recording.
- The B.E.S.T. system does not work while Auto Satellite Prog recording is in progress ( r g, 32). • In the case of timer recording, the B.E.S.T. system works
- before recording is initiated.
- Once the cassette is ejected, the B.E.S.T. data is cancelled. The next time the cassette is used for recording, B.E.S.T. is reperformed.
- Pressing the recorder's RECORD button while "BEST" is displayed does not start Instant Timer Recording (27 pg. 21).

#### ATTENTION

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

- 1) Press and hold PAUSE and press RECORD to engage the RECORD PAUSE mode.
  - The recorder then automatically checks the condition of the tape and, after approximately 7 seconds, reenters RECORD PAUSE.
- 2) Press PLAY to start recording.
  - If you want to bypass the B.E.S.T. system and begin recording immediately, set "B.E.S.T." to "OFF" in step 4 on page 24.

## Playback

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



appears blinking on the recorder's display panel.

#### **NOTES:**

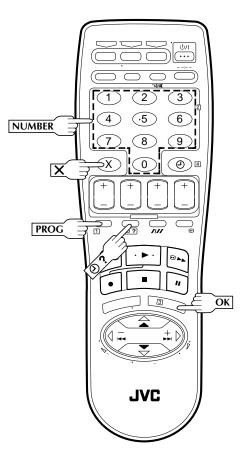
- When watching a tape recorded with "B.E.S.T." set to "ON", it is recommended that you leave B.E.S.T. on during playback as well.
- When watching a rental tape or one recorded on another video recorder, or when using this recorder as the player for editing, set B.E.S.T. to your preference by performing steps 1 through 5 on page 24.
- "BEST" only appears at the beginning of automatic tracking. Even though it doesn't appear after that, the B.E.S.T. function is operative.

# $26_{\scriptscriptstyle EN}$

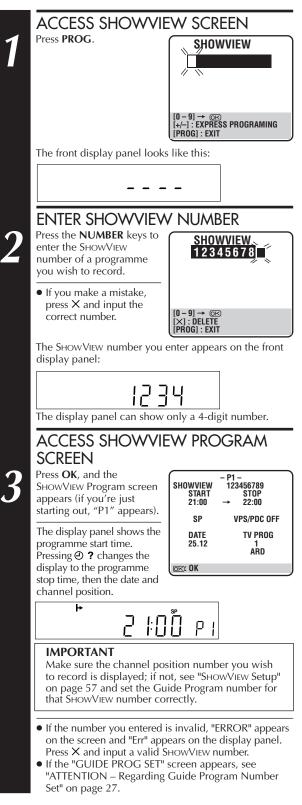
### TIMER RECORDING

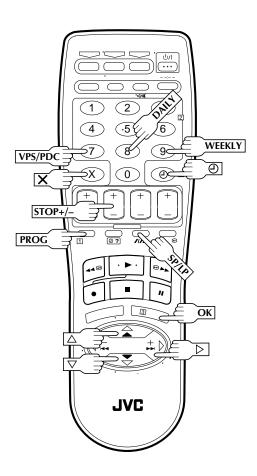
# SHOWVIEW Timer Programming

- Before performing SHOWVIEW Timer Programming:
- Make sure that the recorder's built-in clock is set properly.
- Insert a cassette with the safety tab in place. The recorder will come on automatically.
- Turn on the TV and select the VIDEO channel (or AV mode).



With SHOWVIEW, timer programming is greatly simplified because each TV programme has a corresponding code number which your recorder is able to recognize.





#### Satellite Tuner Users

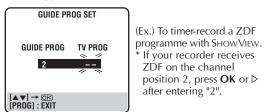
- To timer-record a satellite broadcast using SHOWVIEW:
- 1 Set "AV2 SELECT" to "SAT" (🖙 pg. 39).
- 2 Perform steps 1 7.
- 3 Set the satellite tuner to the appropriate channel before the selected programme begins.
- 4 Leave the satellite tuner's power on.

#### ATTENTION

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

"GUIDE PROG SET" appears after performing step **3** if the Guide Program number for the SHOWVIEW number you entered has not been set.

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



#### Set tape speed

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

#### SET VPS/PDC MODE

Press **VPS/PDC** to select "ON" or "OFF". If "VPS/PDC ON" is displayed on the screen or "VPS/ PDC" is lit on the display panel, VPS/PDC is set to ON. If "VPS/PDC OFF" is displayed on the screen or "VPS/PDC" is not lit on the display panel, VPS/PDC is set to OFF. IF "VPS/PDC Recording" on page 29.

#### RETURN TO NORMAL SCREEN

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

• Repeat steps 1 – 6 for each additional programme.

#### ENGAGE RECORDER'S TIMER MODE

Press O. The recorder turns off automatically and O appears on the display panel.

• To disengage the timer, press 🕘 again.

#### **NOTES:**

6

- To Change The Stop Time . . . . . . press **STOP** +/– after pressing **OK** in step **3**. You can compensate for anticipated programme schedule delays this way.
- To Timer-Record Weekly Or Daily Serials . . . . . . after pressing OK in step 3, press WEEKLY (NUMBER key "9") for weekly serials or DAILY (NUMBER key "8") for daily serials (Monday – Friday). Either "WEEKLY" or "DAILY"

appears on the screen. Pressing the button again makes the corresponding indication disappear.

- You can programme this recorder to timer-record as many as 8 programmes. If you try to programme the recorder to record a ninth, "PROGRAM FULL" appears on screen and "FULL" appears on the front display panel. To record the extra programme, you must first cancel any unnecessary programmes ( pg. 30).
- It is not possible to timer-record a TV programme with a SHOWVIEW number which starts with "0".

### **Timer Warning**

If you have programmed your recorder to timer-record a programme or a series of programmes, a warning appears on screen to tell you that the recording is to start in 5 minutes.

- WARNING-TIMER RECORDING TO START SOON (\scalar)[\times]

#### **NOTES:**

- The warning only appears if you're not in the Timer mode at that time.
- If this recorder is being used as the player for tape dubbing, the warning screen is recorded on the tape in the other video recorder.

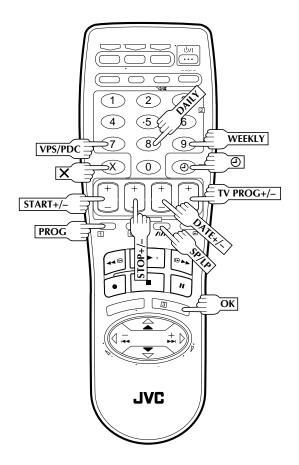
The warning blinks for the entire 5 minutes leading up to the start of timer recording. To clear the display, press X.

# $28_{\rm EN}$

# Express Timer Programming

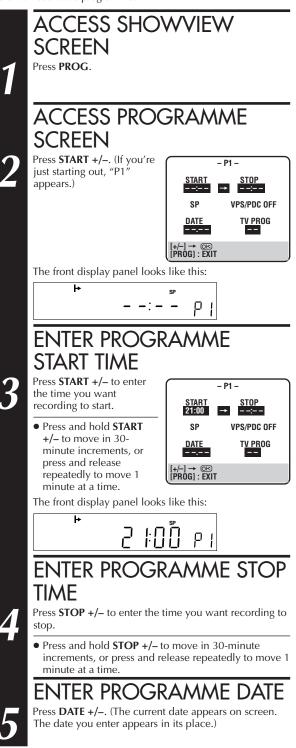
#### Before performing Express Timer Programming:

- Make sure that the recorder's built-in clock is set properly.
- Insert a cassette with the safety tab in place. The recorder will come on automatically.
- Turn on the TV and select the VIDEO channel (or AV mode).

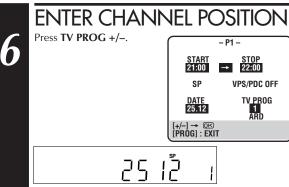


If you don't know the SHOWVIEW number for the programme you wish to record, use the following procedure to set your recorder to timer-record the programme.

TIMER RECORDING (cont.







#### SET TAPE SPEED

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

# SET VPS/PDC MODE

Press VPS/PDC to select "ON" or "OFF". If "VPS/PDC ON" is displayed on the screen or "VPS/ PDC" is lit on the display panel, VPS/PDC is set to ON. If "VPS/PDC OFF" is displayed on the screen or "VPS/PDC" is not lit on the display panel, VPS/PDC is set to OFF. IF "VPS/PDC Recording" in the right column.

– P1 –

STARI 21:00

SP

25.12

[+/-] → ©K [PROG] : EXIT

→ STOP 22:00

**VPS/PDC OFF** 

TV\_PROG

1 ARD

#### **RETURN TO NORMAL** SCRFFN

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

• Repeat steps 1 – 9 for each additional programme.

#### **ENGAGE RECORDER'S** TIMER MODE

Press O. The recorder turns off automatically and O appears on the display panel.

To Timer-Record Weekly Or Daily Serials . . .

. . . anytime during steps 2 through 9, 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 and "FULL" appears on the front display panel. To record the extra programme, you must first cancel any unnecessary programmes ( pg. 30).

#### Satellite Tuner Users

To timer-record a satellite broadcast using Express Timer Programming:

- Set "AV2 SELECT" to "SAT" (☞ pg. 39).
- Perform steps 1 10. Enter "L-2" for the channel position in step 6.
- <sup>3</sup> Set the satellite tuner to the appropriate channel before the selected programme begins.
- 4 Leave the satellite tuner's power on.

## VPS/PDC Recording

Now available from some TV stations, PDC (Programme Delivery Control) and VPS (Video Programme System) are service designed to assure safe, accurate timer recording. With this system, special code signals are transmitted together with the audio/video signals. These code signals control your video recorder and have precedence over the advertised times you may have preset into the timer. This means that your recorder will start and stop recording when the preset TV programmes actually start and end — even if the broadcast time of a preset TV programme is changed.

#### NOTES:

- When you use Express Timer Programming, set the start time (VPS or PDC time) exactly as advertised in the TV listing. A different time than advertised will result in no recording
- VPS/PDC recording is also possible when a satellite tuner or a cable system is connected to AV2 IN/DECODER on your recorder.
- VPS/PDC recording is also possible via the AV1 IN/OUT connector.

#### How to check if the station being received transmits a VPS/PDC signal

- Press – until the channel position appears on the display panel.
- 2 Hold down **START+** for about 5 seconds. • "VPS/PDC" appears blinking on the display panel. If a VPS/PDC signal is detected from the station, "VPS/ PDC" will stop blinking. If no VPS/PDC signal is detected from the station, "VPS/
- PDC" will blink at a slower rate. Press – – – – or **START**+ again to return to normal display.

## **Timer Warning**

If you have programmed your recorder to timer-record a programme or a series of programmes, a warning appears on screen to tell you that the recording is to start in 5 minutes.

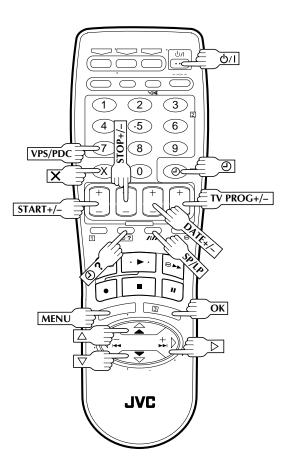
- WARNING-TIMER\_RECORDING TO START SOON [X]

### NOTES:

- The warning only appears if you're not in the Timer mode at that time.
- If this recorder is being used as the player for tape dubbing, the warning screen is recorded on the tape in the other video recorder.

The warning blinks for the entire 5 minutes leading up to the start of timer recording. To clear the display, press X.

# $30_{EN}$



### Check, Cancel And Replace Programmes

1	DISENGAGE TIME Press ூ, then press ர/I.	R MODE
	ACCESS PROGRA SCREEN/DISPLAY	MME CHECK
2	Press 🕑 <b>?</b> .	PR START STOP CH DATE 1 8:00 10:00 3 24.12 2 10:00 10:45 2 25.12 3 11:30 13:00 1 25.12 4 5 6 7 8
	P IP	
2	ACCESS PROGRA DISPLAY Press @ ? again to check more information. Each	MME SCREEN/
	time you press ② ?, the next programme's information appears.	START 8:00  SP VPS/PDC OFF DATE TV PROG 24:12  SU WDR
	U:8:0	[@?] : NEXT
	• The display panel shows the Pressing <b>OK</b> changes the distop time, then the date and	
οο	ancel or replace a	programme
4	CANCEL OR REPL PROGRAMME Press X to cancel a programm programme, press the approp STOP+/-, DATE+/-, TV PROG (////).	ne. To replace a riate button: <b>START+/-</b> ,
5	RETURN TO NOR DISPLAY Press @ ? as many times as no some programmes remaining,	ecessary. If there are still
6	RETURN TO TIMER Press @.	MODE
NO	I TE:	

You can also check the programmes on the display panel even if the recorder's power is off (unless the recorder is in the Power Save mode IIP pg. 11) or the recorder is in the Timer mode; however, it is not possible to cancel or replace the programmes.

# $_{EN}31$

## Auto SPightarrowLP Timer

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

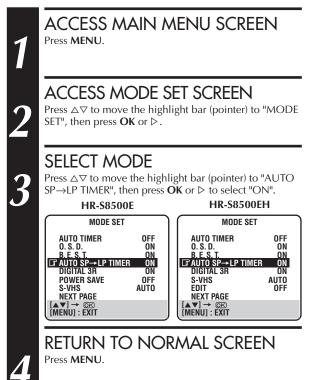
#### For Example . . .

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

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

Total 210 minutes

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

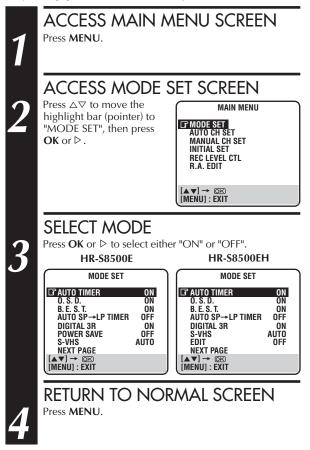


#### NOTES:

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

## **Auto Timer**

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

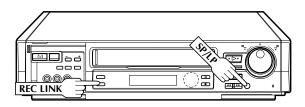


#### NOTE:

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

## TIMER RECORDING (cont.)

# Automatic Satellite Programme Recording



#### ATTENTION

 $32_{EN}$ 

- Be sure not to turn on the satellite tuner before the programme is executed; otherwise, the recorder will start recording when the satellite tuner's power is turned on.
- If you have connected another appliance other than a satellite tuner to the AV2 IN/DECODER connector, be sure not to engage the Auto Satellite Prog Rec mode; otherwise, the recorder will start recording when the connected appliance's power is turned on.
- Auto Satellite Prog recording and timer-recording cannot be done at the same time.

This facility allows you record automatically a satellite programme which is timer-programmed on your external satellite tuner. Connect a satellite tuner to the recorder's AV2 IN/DECODER connector and programme the timer on the satellite tuner; the recorder starts recording when the signals input from the satellite tuner to the AV2 IN/DECODER connector, and when there is no input signals the recorder stops recording and the power shuts off.

#### Before performing the following steps:

- Make sure the satellite tuner is connected to the recorder's AV2 IN/DECODER connector. (IF pg. 46)
- Programme the timer on the satellite tuner.
- Insert a cassette with the safety tab in place.

## SELECT AV2 SELECT MODE

Set "AV2 SELECT" to "SAT" (17 pg. 39).

## SET TAPE SPEED

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

#### ENGAGE AUTO SATELLITE PROG REC MODE

Press and hold **REC LINK** for about 2 seconds. The button lights up and the recorder turns off automatically.

- To disengage the Auto Satellite Prog Rec mode, press **REC LINK**. The button's light goes off.
- If the recorder's power is off, it is not possible to engage the Auto Satellite Prog Rec mode.

#### **NOTES:**

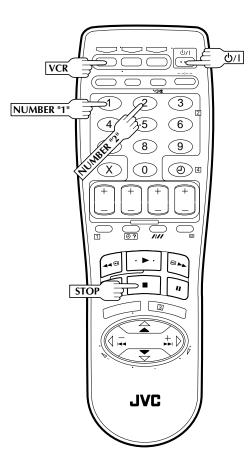
- Auto Satellite Prog recording is possible with the AV2 IN/DECODER connector only.
- For timer programming of the satellite tuner, refer to the instruction manual of the satellite tuner.
- Auto Satellite Prog recording is not possible if your satellite tuner does not have a timer.
- The button's light blinks while Auto Satellite Prog recording is in progress.
- Pressing the recorder's U/I button while Auto Satellite Prog recording is in progress turns off the recorder's power and disengage the Auto Satellite Prog Rec mode.
- If there are more than one satellite programme you wish to record with Auto Satellite Prog Recording, it is not possible to set the different tape speed per each; the tape speed selected in step 2 will be applicable to all the programmes for Auto Satellite Prog recording.
- The B.E.S.T. system ( pg. 24) does not work while Auto Satellite Prog recording is in progress.
- Just Clock ( pg. 58) does not work when the Auto Satellite Prog Rec mode is engaged.
- Depending on the type of satellite tuner, the recorder may not record a slight portion of the beginning of the programme or may record slightly longer than the actual length of the programme.
- If you engage the Auto Satellite Prog Recording mode when the satellite tuner's power is on, the recorder will not start Auto Satellite Prog recording even though the button's light blinks. When the satellite tuner shuts off once and is turned back on again, the recorder starts recording.
- When the Auto Satellite Prog Rec mode is engaged or the recorder's power is turned off after Auto Satellite Prog recording is finished, the recorder will not enter the Timer mode even though "AUTO TIMER" is set to "ON".
- After Auto Satellite Prog recording, the number of recorded programmes will not be displayed on the front display panel for the Instant ReView function (127 pg. 15).
- You can also record a programme from your cable system in the same way if the system has a timer.
- When you press and hold the recorder's **REC LINK** button to engage the Auto Satellite Prog Rec mode, if the **REC LINK** button does not light but instead blinks quickly even though your satellite tuner's power is off, Auto Satellite Prog Recording will not work properly with that satellite tuner\*.

. If this is the case, perform "Express Timer Programming" (🖙 pg. 28) to timer-record a satellite programme.

\* Some satellite tuners output signals even if the power is off. Auto Satellite Prog Recording is not possible with those satellite tuners.

## SPECIAL FEATURES

# Remote Control Functions



# Remote A/B Code Switching

EN 33

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

**REMOVE POWER SUPPLY** 

Unplug the mains power cord from the mains outlet.

#### SET REMOTE CONTROL CODE

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

### **RE-SUPPLY POWER**

Plug the mains power cord back into the mains outlet.

### TURN THE RECORDER ON

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

#### NOTE:

3

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

# $34_{\scriptscriptstyle EN}$



#### SAT VCR √/\$ TV/VCR NUMBER 5 8 9 Θ 0 0 X //// STOP OK 13 TV PROG+/ TV⊿+/-JVC

#### ATTENTION

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

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

#### Control Your TV Using Additional Buttons

Use the NUMBER keys, and the //// button,  $\times$  button or O button to select the TV's channel.

- With televisions under Code 01, 02, 03, 04, 06, 07, 09, 10, 13, 14, 22, 23 or 25, the //// button corresponds to the 1-digit/2-digit entry switching button (often labelled /– –) of your TV's remote control.
- With televisions under Code 01, 11 or 12, the  $\times$  button corresponds to the 10 + button, and the  $\oplus$  button corresponds to the 20 + button of your TV's remote control.

#### NOTE:

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

#### TV Multi-brand Remote Control

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

Before you start . . .

• Turn on the TV using its remote control.

## SET TV BRAND CODE

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

- Once you have set the remote control to operate the TV, you don't have to repeat this step until you replace your remote control's battleries.
- JVC or SAMSUNG has more than one code. If the TV does not function with one code, try entering another.

# OPERATE TV

First, press **TV** to set the remote control to TV mode, then press the corresponding button: ⑴/I, **TV PROG** +/–, **TV/VCR**, **TV** → +/– (Volume), ♫/іі́ (Muting), **NUMBER** keys.

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

#### IMPORTANT

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

TV BRAND NAME	CODE
JVC	01, 02, 03, 04
BRANDT	05
NORDMENDE	05
SABA	05
TELEAVIA	05
TELEFUNKEN	05
THOMSON	05
FERGUSON	06
PHILIPS	07
SAMSUNG	07, 19, 23, 24, 25
BLAUPUNKT	08
GRUNDIG	08
SONY	09
PANASONIC	10
GRAETZ	11
ITT	11
LUXOR	11
SALORA	11
SELECO	11
MIVAR	12
HITACHI	13
TOSHIBA	14
MITSUBISHI	15
FINLUX	16
NOKIA	17
SHARP	18
FUNAI	20
GOLDSTAR	21
NEC	22

# 

#### ATTENTION

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

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

### Satellite Tuner Multi-Brand Remote Control

EN 35

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

#### Before you start . . .

• Turn on the satellite tuner using its remote control.

#### SET SATELLITE TUNER BRAND CODE

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

- Once you have set the remote control to operate the satellite tuner, you don't have to repeat this step until you replace your remote control's batteries.
- Some satellite tuner brands have more than one code. If the satellite tuner does not function with one code, try entering another.

## OPERATE SATELLITE TUNER

First, press **SAT** to set the remote control to satellite tuner mode, then press the corresponding button: 0/1, **TV PROG +/-**, **NUMBER** keys.

- For VIDEOWAY or some brands of satellite tuner, you must press //// after having pressed the **NUMBER** keys.
- The **NUMBER** buttons may not function with some satellite tuners.

#### IMPORTANT

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

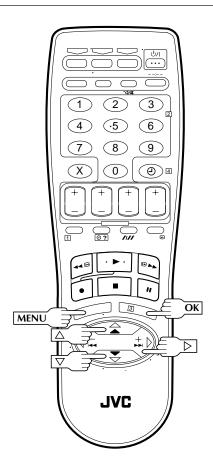
SATELLITE TUNER BRAND	CODE
JVC	13, 14
AMSTRAD	01, 02, 03, 04
GRUNDIG	05,06
HIRSCHMANN	05
SIEMENS	05
WISI	05
KATHREIN	05, 11, 12
PACE	06, 08
PHILIPS	07
FINLUX	09
ITT	09
NOKIA	09
SALORA	09
RFT	10
SKYMASTER	10
MASPRO	11
BT	13
PANASONIC	15
JERROLD	16
VIDEOWAY	17

# $36_{\scriptscriptstyle EN}$

#### EDITING

# Preparation For Editing

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



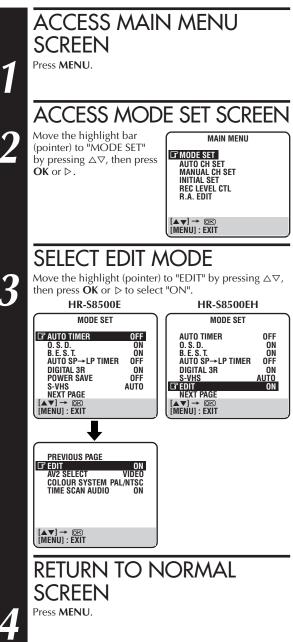
#### Advantages Of S-VHS Video Recorders

You can edit from VHS to S-VHS, S-VHS to VHS, or, from S-VHS to S-VHS.

- From VHS to S-VHS: Record VHS playback signals in the S-VHS mode. Although the picture quality is inherently limited by that of the original, the edited tape has better picture quality than those made by VHS-to-VHS editing.
- From S-VHS to VHS: Because the picture quality of the source material is very high, the edited tape has better picture quality than those made by VHS-to-VHS editing.
- From S-VHS to S-VHS: All signals will be transferred with minimum degradation.

# **Editing Mode Setting**

You can minimize picture degradation while editing.

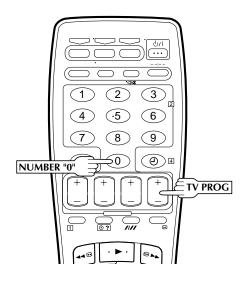


#### NOTE:

After you finish editing, be sure to set "EDIT" back to "OFF".



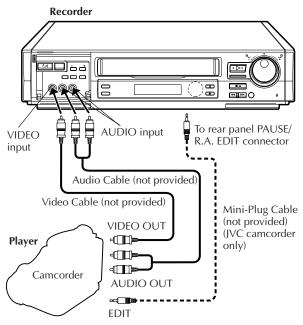
# Edit From A Camcorder



#### **NOTES:**

- All necessary cables can be obtained from your dealer.
- You can also use another video recorder as the player instead of a camcorder.

A If the camcorder has no S-VIDEO output connector...



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

#### MAKE CONNECTIONS

- ▲ If the camcorder has no S-VIDEO output connector... ... connect the camcorder's AUDIO/VIDEO OUT connectors to the recorder's front panel AUDIO/ VIDEO input connectors.
- **B** If the camcorder has an S-VIDEO output connector... ... connect the camcorder's S-VIDEO OUT and AUDIO OUT connectors to the recorder's rear panel S VIDEO and front panel AUDIO input connectors.
- When using a monaural camcorder, connect its AUDIO OUT connector to the AUDIO L input connector on your recorder.
- When a Master Edit Control-equipped JVC camcorder is used, the camcorder is capable of controlling the recorder. Refer to the camcorder's instruction manual for operating procedure.

#### SET RECORDER'S INPUT MODE

Press **NUMBER** key "0" and/or **TV PROG** to select "F-1" for the AUDIO/VIDEO input connectors, or "S-1" for the AUDIO/S VIDEO input connectors, depending on the connectors being used.



See "Editing Mode Setting" on page 36.

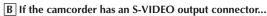
#### START CAMCORDER

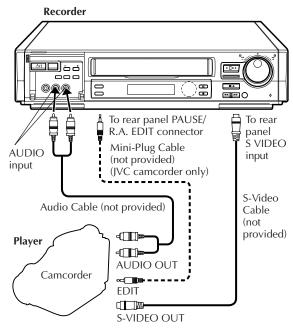
Engage its Play mode.

3

Λ

#### **START RECORDER** Engage its Record mode.

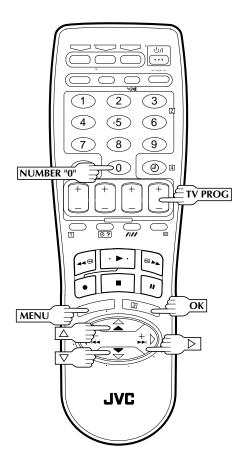




## EDITING (cont.)

# $38_{\scriptscriptstyle EN}$

# Edit To Or From Another Video Recorder



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

## MAKE CONNECTIONS

Connect the player's 21-pin SCART connector to the recorder's 21-pin SCART connector as illustrated on page 39.

A When Using Your Video Recorder As The Source Player ...

... connect its AV1 IN/OUT connector to the recording deck.

B When Using Your Video Recorder As The Recording Deck ...

... connect its AV2 IN/DECODER or AV1 IN/OUT connector to the source player.

#### SET RECORDING DECK'S INPUT MODE

Set to AUX. With this video recorder, press **NUMBER** key "0" and/or **TV PROG** to select "L-1" for the AV1 IN/ OUT connector, or "L-2" for the AV2 IN/DECODER connector, depending on the connector being used.

• When using the AV2 IN/DECODER connector, make sure "AV2 SELECT" is set to "VIDEO" or "S-VIDEO" (CF pg. 39).

#### SET EDIT MODE

See "Editing Mode Setting" on page 36.

## START SOURCE PLAYER

Engage its Play mode.

#### START RECORDING DECK

Engage its Record mode.

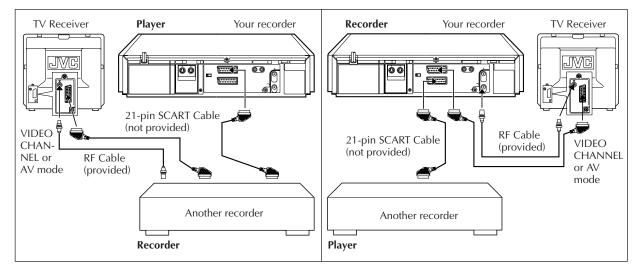
#### **NOTES:**

3

- All necessary cables can be obtained from your dealer.
- For Y/C signal input/output, be sure to use a 21-pin SCART cable that is compatible with the Y/C signal.
- When you use this recorder as the player for editing, be sure to set "O.S.D." to "OFF" before starting (☞ pg. 10).
- If you are using another recorder with S-Video and Audio input/output connectors, you can connect those connectors to this recorder's S VIDEO and AUDIO input/output connectors. When Using Your Video Recorder As The Source Player ... ... connect its rear panel S VIDEO and AUDIO output connectors to the recording deck's S-Video and Audio input connectors.

When Using Your Video Recorder As The Recording Deck ... ... connect its rear panel S VIDEO and front AUDIO input connectors to the source player's S-Video and Audio output connectors. Then, set the recorder's input mode to "S-1".

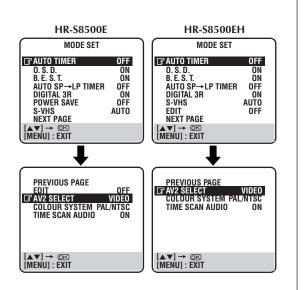
# $_{EN}39$



### **AV2 SELECT Setting**

Set "AV2 SELECT" to the appropriate mode depending on the type of unit connected to the rear panel AV2 IN/ DECODER connector of this recorder.

- 1 Press **MENU** to access the Main Menu screen.
- 2 Press  $\Delta \nabla$  to move the highlight bar (pointer) to "MODE SET", then press **OK** or  $\triangleright$ .
- I Press  $\Delta \nabla$  to move the highlight bar (pointer) to "AV2 SELECT".
- 4 Press **OK** or  $\triangleright$  to select one of the following:
  - a-VIDEO : If a connected device's output is compatible only with regular video signals, set "AV2 SELECT" to "VIDEO".
  - **b**–S-VIDEO : If a connected device's output is compatible with Y/C signals, set "AV2 SELECT" to "S-VIDEO". This setting will let you take advantage of higherquality S-VHS pictures.
  - c-DECODER : If a decoder is connected to the AV2 IN/DECODER connector, set "AV2 SELECT" to "DECODER". (See page 47 as well.)
     d-SAT : If a satellite tuner is connected to the
    - AV2 IN/DECODER connector, set "AV2 SELECT" to "SAT". (See page 46 as well.)



5 Press **MENU** to return to normal screen.

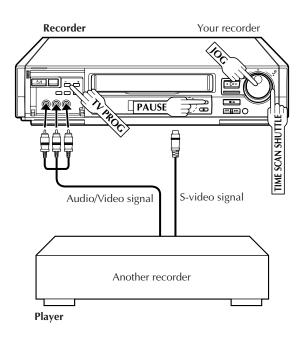
• If you are using a decoder or satellite tuner, be sure to set "AV2 SELECT" back to "DECODER" or "SAT" after editing.

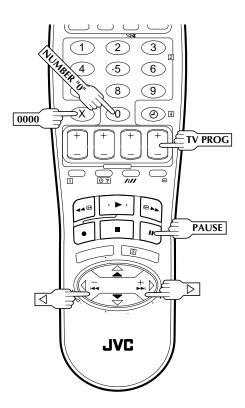
- If you're not using a decoder or satellite tuner, leave "AV2 SELECT" set to "VIDEO" or "S-VIDEO".
- The default setting is "VIDEO"; if the recorder's memory backup has expired due to a power cut or because the AC was removed from the recorder, "VIDEO" will be automatically selected when the power is restored to the recorder. If you are using a decoder or satellite tuner, be sure to set "AV2 SELECT" back to "DECODER" or "SAT".

# $40_{\scriptscriptstyle EN}$

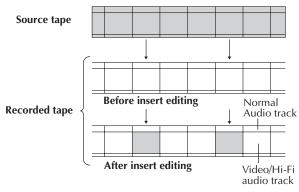
#### EDITING (cont.)

# **Insert Editing**





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



# MAKE CONNECTIONS

Connect the player's VIDEO OUT or S-VIDEO OUT and AUDIO OUT connectors to your recorder's front panel VIDEO and AUDIO input connectors, or rear panel S VIDEO and front panel AUDIO input connectors.

### SET INPUT MODE

Press **NUMBER** key "0" and/or **TV PROG** so that "F-1" for the VIDEO/AUDIO input connectors or "S-1" for S VIDEO/AUDIO input connectors appears in place of a channel number.

## LOCATE END POINT

3

Λ

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

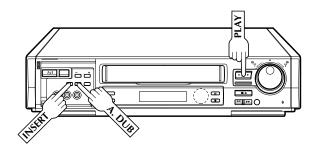
## RESET THE COUNTER

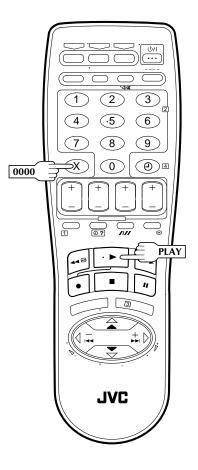
Press **0000** to change the counter display to "0:00:00".

## LOCATE START POINT

Determine the edit-in point (the beginning of the segment to be replaced) using the TIME SCAN SHUTTLE ring or the JOG dial or pressing  $\triangleleft \triangleright$  and PAUSE.

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





## ENGAGE INSERT EDITING

Press INSERT.

6

D

- Your recorder enters the Insert-Pause mode. ("", ">" and "" light up on the front display panel.)
- The TV screen changes from the still picture to the input source you are going to record.

## START EDITING

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

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

#### END INSERT EDITING

At counter "0:00:00", Insert Editing will stop automatically while the tape continues running in the Play mode. If you wish to stop Insert Editing before the specified edit-out point, press **0000**.

#### FOR AV INSERT EDITING

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

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

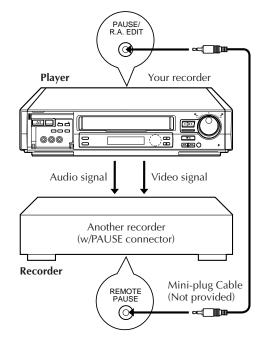
#### **NOTES:**

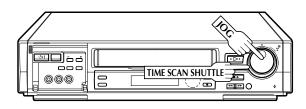
- Suitable leads can be obtained from your dealer.
- Insert editing is not possible with cassettes whose safety tab has been removed.
- When insert editing is performed on a tape that has been recorded on another video recorder, the inserted portion may appear distorted.
- In insert editing, the recording speed (SP/LP) is determined by the previous recording to be replaced. If the previous recording's speed changes within a single edit, the inserted picture will be distorted at the switching point.
- A small portion of the recording which precedes an insert edit may become erased.
- Insert Editing is also possible using the rear panel AV1 IN/ OUT or AV2 IN/DECODER connector. When using these connectors, make sure to select the correct input mode in step 2.

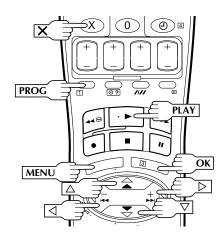
#### EDITING (cont.)

# $42_{\scriptscriptstyle EN}$

# Random Assemble Editing







This function makes it easier to create edited videos when your video recorder is used as the source player in combination with another JVC video recorder equipped with a Remote PAUSE Connector. You can pre-program up to 8 scenes or "cuts" for automatic editing in the sequence you have specified.

You can also perform Random Assemble Editing with a second non-JVC recorder.  $\bowtie$  pg. 43

## MAKE CONNECTIONS

Connect your recorder's AV1 IN/OUT or S VIDEO OUT/AUDIO OUT connectors to the video and audio input connectors on the recording deck, and connect your recorder's PAUSE/R.A. EDIT connector to the PAUSE connector on the recording deck.

- If the recording deck doesn't have a PAUSE connector, connect to the R.A. EDIT connector instead.
- The Mini-plug cable is a mono 3.5 mm mini-plug to mono 3.5 mm mini-plug connector.

#### PREPARE FOR EDITING

Insert the cassette to be recorded on into the recorder and set the recorder's input mode.

#### LOAD SOURCE CASSETTE

Insert the source cassette into your recorder.

#### SET EDIT MODE

See "Editing Mode Setting" on page 36.

#### START SOURCE PLAYBACK Press PLAY.

## ACCESS MAIN MENU SCREEN

Press MENU.

2

3

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5

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#### ACCESS R.A. EDIT SCREEN

Press  $\Delta \nabla$  to move the highlight bar (pointer) to "R.A.EDIT", then press **OK**.

• The screen is superimposed on the video playback in step 8.





### PREPARE RECORDING DECK

Engage its Record-Standby mode.

#### START R.A. EDIT

Press OK.

10

- Automatic editing begins; all the specified scenes are copied to the recording deck in the order they were registered.
- The on-screen display remains while your recorder searches for each scene (blinking cursor indicates scene currently being searched for), but disappears during actual editing.
- During scene search, the recording deck automatically enters its Record-Standby mode.
- When all registered scenes have been edited, your recorder enters the Pause mode, the recording deck enters its Record-Standby mode, and the cursor blinks at the next available number.

#### END R.A. EDIT

Press **MENU** to return to the normal screen, and engage the Stop mode for your recorder and for the recording deck.

#### **NOTES:**

- You can also monitor the sound when searching for scenes you want to edit in steps 8 – 9. Since you can hear the soundtrack during selection, you can avoid abrupt or unnatural sounding scene-to-scene transitions. The sound that is heard, however, is not TimeScan Audio.
- When editing, there may be a discrepancy of about 2 seconds on the source tape between the locations you chose as edit-in/-out points and the locations your recorder recognizes as those points.
- For any scene, the edit-out point must have a counter reading that is at least 1 second after the corresponding edit-in point. Any less than 1 second and the edit-out point will not be registered.
- Since the source recorder prerolls during Random Assemble Editing, there must be at least 15 seconds worth of recorded material prior to any edit-in point on the source tape.
- If the search time for an edit-in point exceeds 5 minutes, the recording deck enters its Stop mode and editing will not take place.
- During steps 8 and 9 if you engage the Pause mode while registering edit-in and -out points in the R.A. Edit screen, the characters in the on-screen display may become distorted. This is normal.

#### To Make Corrections . . .

... during step 8 or 9, you can cancel registered in and out points by pressing  $\times$  on the remote control. Each time you press, the preceding point is erased.

 If, for example, you have registered 5 sets of in and out points and want to reset the first set, you have to press X until all points after the first set have been erased. Reenter them after you've repaired the first set of points.

#### **Memory Capacity**

Random Assemble Editing shares memory space with the recorder's timer. If there are programs occupied by timer-recording data, those spaces cannot be used to register edit-in and -out points meaning you won't be able to edit 8 scenes.

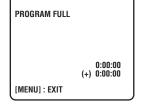
- When all 8 programs are full, "PROGRAM FULL" appears on the R.A. EDIT screen.
- To cancel a program, see page 30.

#### RM-V704U Multi-Brand R.A. Edit Controller (Not provided)

By connecting this controller to your recorder's R.A. EDIT connector, you can perform Random Assemble Editing in combination with a second non-JVC video recorder. The controller is compatible with various major recorder brands. For compatible systems and availability, please consult your JVC dealer.

#### NOTE:

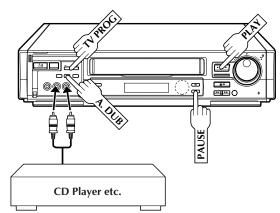
Although the RM-V704U is designed to operate the recording deck, it may not work with some recorders, or may have limited function capability.

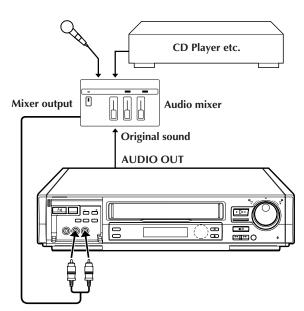


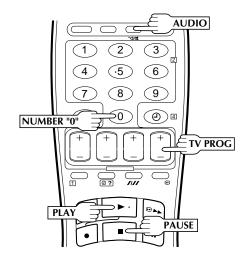
 $44_{EN}$ 

#### EDITING (cont.)

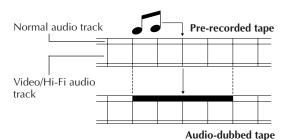
# **Audio Dubbing**







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



#### MAKE CONNECTIONS

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

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

#### SET INPUT MODE

Press  $\mbox{NUMBER}$  key "0" and/or  $\mbox{TV}$  PROG so that "F-1" or "S-1" appears in place of a channel number.

### LOCATE START POINT

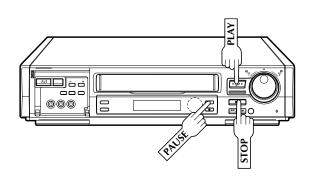
Press **PLAY** to start playback of the tape in your recorder, and press **PAUSE** when you find the point where you want to start dubbing.

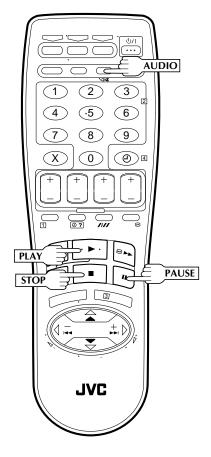
## ENGAGE AUDIO DUBBING

Press A. DUB.

2

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





### START DUBBING

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

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

#### END AUDIO DUBBING

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

#### **NOTES:**

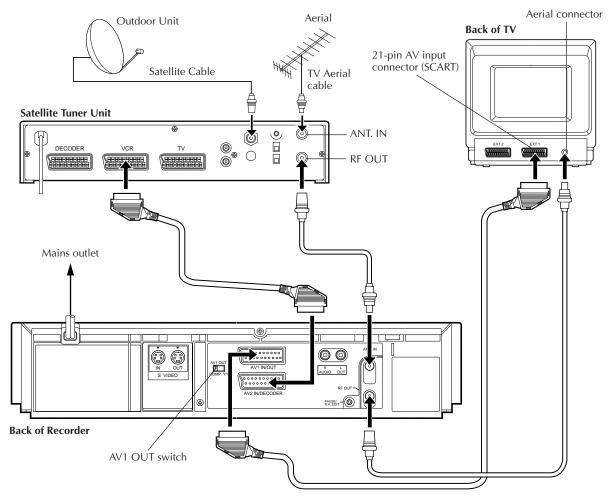
5

- When monitoring the sound during Audio Dubbing, the normal soundtrack is automatically selected. If you wish to hear the mixed sound (Hi-Fi + Normal soundtracks), press AUDIO on the remote control to select 'D + I (L+R)+NORM" (□ pg. 17).
- Audio dubbing stops automatically when the counter reaches "0:00:00", and the recorder enters the Play mode. Check the counter reading before dubbing.
- Audio dubbing is also possible using the rear panel AV1 IN/OUT or AV2 IN/DECODER connector. When using these connectors, make sure to select the correct input mode in step 2.
- Audio dubbing cannot be performed on a cassette that has had its record safety tab removed.
- When playing back an audio-dubbed tape, press **AUDIO** on the remote control to select the soundtrack you wish to hear (127 pg. 17).



# Connection To A Satellite Tuner

The AV2 IN/DECODER connector on the rear panel of your recorder allows simple connection to a satellite tuner.



#### IMPORTANT

Set "AV2 SELECT" to "SAT" on the Mode Set screen ( ${\rm I\!I\!I}$  pg. 39).

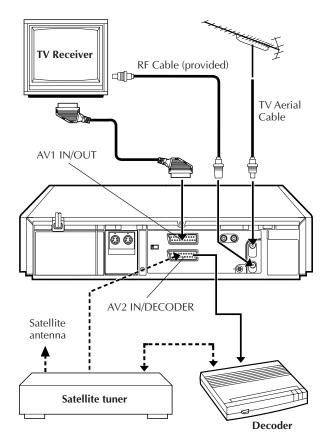
If you set "AV2 SELECT" to "SAT" ...

- It is possible to view a satellite programme with the TV set to its AV mode even if the recorder's power is turned off.
- The AV2 IN/DECODER connector's input is the same signal that is controlled by the rear panel AV1 OUT switch as shown below:
   a- If both the satellite tuner and the TV are compatible with the Y/C signal, set the AV1 OUT switch to Y/C in order to take advantage of high-quality S-VHS pictures. (For connection, be sure to use a 21-pin SCART cable that is compatible with the Y/C signal.)
  - b- If the satellite tuner and/or the TV are/is not compatible with the Y/C signal, set the AV1 OUT switch to COMP.

AV2 SELECT setting on the MODE SET screen	Rear panel AV1 OUT switch	AV2 IN/DECODER connector input signal	* The composite signal is a regular video signal.
SAT	COMP.	Composite signal*	** The Y/C signal is a signal in which the luminance and chrominance signals are
SAT	Y/C	Y/C signal**	separated.



# Connecting/ Using A Decoder



The AV2 IN/DECODER connector can be used as an input terminal for an external decoder (descrambler). Simply connect a decoder and you can enjoy the variety of programming that is available through scrambled channels.

#### 

Set "AV2 SELECT" to "DECODER". (CF pg. 39)

#### CONNECT DECODER

Connect your recorder's AV2 IN/DECODER connector to the decoder's Euroconnector using a 21-pin SCART cable.

#### SET TUNER

Perform the procedure as described in "When Receiving A Scrambled Broadcast" on page 53.

#### NOTE:

#### When Connecting A Satellite Tuner . . .

... if you don't have a decoder connect the satellite tuner directly to the video recorder's AV2 IN/DECODER connector. ... if you have a decoder, first connect the decoder to the decoder input of the satellite tuner, then connect the satellite tuner's output to the recorder's AV2 IN/DECODER connector. Refer to the instruction book for the satellite tuner and decoder. See page 46 as well for the connections.

... set "AV2 SELECT" to "SAT". ( pg. 39)

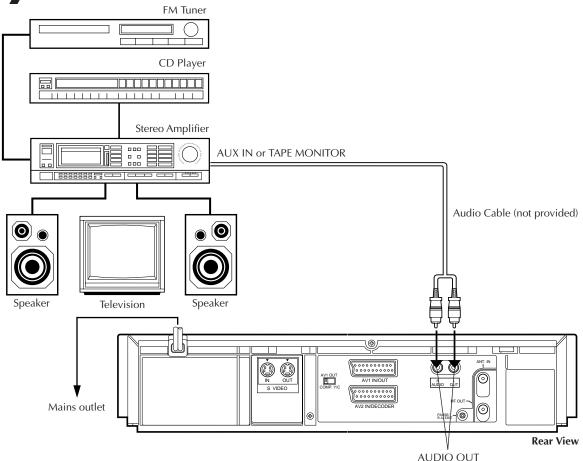
... to view a programme via the satellite tuner, select L-2 mode by pressing **NUMBER** keys and/or **TV PROG** so that "L-2" appears on the display panel.

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#### SYSTEM CONNECTIONS (cont.)

These instructions enable you to connect your video recorder to your Hi-Fi stereo system (if you have one) and listen to the soundtrack through the stereo.







#### MAKE CONNECTIONS

Connect the AUDIO OUT L and R connectors on your video recorder to the AUX IN or TAPE MONITOR terminals on your stereo system's receiver or amplifier.

#### NOTES:

- When connecting your recorder's audio output connectors to a stereo amplifier, make sure you connect L and R correctly.
- If stereo or bilingual TV broadcasts are receivable in your area, this recorder can record them independently of the TV set and play them back through the connected stereo system.
- When listening to sound through the connected stereo system, turn the TV's volume down completely.

#### **CAUTIONS:**

- This recorder has a dynamic range of more than 80 dB with regards to its Hi-Fi audio capability. It is recommended that you check the maximum level if you are going to listen to the Hi-Fi audio signals through a stereo amplifier. A sudden surge in the input level to the speakers may damage them.
- Some speakers and televisions are specially shielded to prevent television interference. If both are of the non-shielded type, do not place the speakers adjacent to the TV set as this can adversely affect the video playback picture.

# 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.

#### IMPORTANT

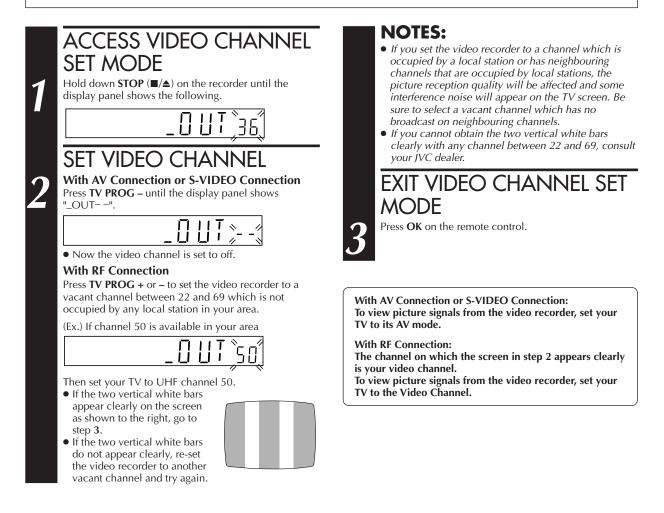
Perform the following steps only if -

- Video Channel Set has not been done correctly by the Auto Set Up function (F pg. 6).
- interference appears in the TV picture after you have moved to a different area or a new station has started broadcasting in your area.
- you change the connection between your recorder and TV from RF connection to AV or S-VIDEO connection, or vice versa.

If you have connected the video recorder to your TV via both the provided RF cable and a 21-pin SCART cable (AV connection), or via the provided RF cable, an S-Video cable and an audio cable (S-VIDEO connection), since you do not need the video channel you have to set the video channel to off.

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

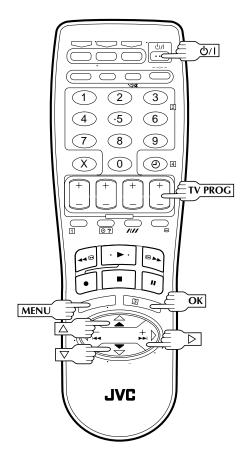
Before performing the following steps, make sure the recorder's power is off and there is no cassette inserted in the recorder.





# **Tuner Set**

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



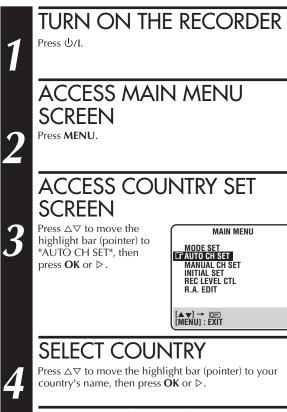
#### IMPORTANT

Perform the following steps only if ----

- Auto Channel Set has not been set correctly by Auto Set Up function (🖙 pg. 6).
- you have moved to a different area or if a new station starts broadcasting in your area.

Your recorder needs to memorize all necessary stations in channel positions in order to record TV programmes. Auto Channel Set automatically assigns all receivable stations in your area to call them up by using the TV PROG buttons without going through any vacant channel.

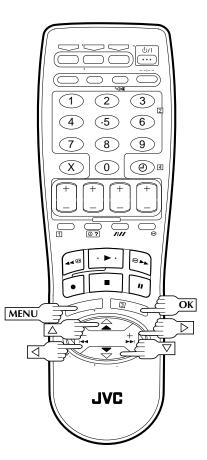
## **Auto Channel Set**



#### SELECT LANGUAGE



Press  $\Delta \nabla$  to move the highlight bar (pointer) to the language of your choice.

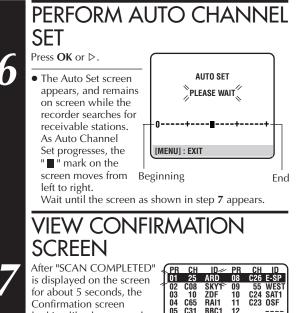


#### IMPORTANT

- In certain reception conditions, station names may not be stored correctly, and auto Guide Program Number Set may not work properly. If the Guide Program numbers are not set properly, when you timer-record a TV programme using SHOWVIEW, the recorder will record a TV programme of a different station. When programming the timer using SHOWVIEW, be sure to check whether the channel position on which your recorder receives the broadcasting station you wish to record is selected (IPP pg. 26, "SHOWVIEW Timer Programming").
- Your video recorder memorizes all detected stations even if reception of some of them is poor. In these cases picture quality may be poor. To delete those stations with an unacceptable picture IP "Delete A Channel" on page 53.

#### **NOTES:**

- Fine tuning is performed automatically during Auto Channel Set. If you want to perform it manually, refer to page 56.
- If you perform Auto Channel Set when the aerial cable is not connected properly, "SCAN COMPLETED -NO SIGNAL-" appears on the screen in step 7. When this happens, make sure of the aerial connection and press OK; Auto Channel Set will take place again.



Confirmation screen looking like the one to the right appears. The stations your recorder located appear on a Confirmation screen — channel positions (PR), channels (CH) and station names

NR.	CH	10//	PR	CH	ID 1
01	25	ARD	08	C26	E-SP
02	C08	SKYT	09	55	WEST
03	10	ZDF	10	C24	SAT1
04	C65	RAI1	11	C23	OSF
05	C31	BBC1	12		
06	C32	BBC2	13		
07	C33	3SAT	14		
[▲					
-	0K)	: EDIT			
-	[X]:	DELETE			
[M	ENU]	: EXIT			
<u> </u>					

C: Cable

 $(ID - \square pg. 55)$ . The blueback screen and the programme currently being broadcast by the blinking station appear alternately for 8 seconds each. To view the next page, use the  $\Delta \nabla \triangleleft \triangleright$  button on the remote control.

- The stations located in the selected country appear at the top of the list.
- The Guide Program numbers will also be set automatically during Auto Channel Set.

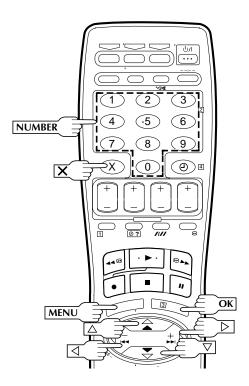
#### RETURN TO NORMAL SCREEN

Press MENU.

8

- Using the Confirmation screen, you can skip or add channel positions, enter station names and perform other operations. Refer to pages 52 – 56 for the procedures.
- Depending on reception conditions, the stations may not be stored in order, and the station names may not be stored correctly.
- For information on scrambled broadcasts, refer to page 53.

# $52_{EN}$



## Storing Channels Manually

Store channels that were not stored during Auto Set Up (r pg. 6) or Auto Channel Set (1) pg. 50).

# ACCESS MAIN MENU

Press MENU.

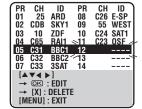
#### **ACCESS CONFIRMATION SCREEN**

Press  $\Delta \nabla$  to move the highlight bar (pointer) to "MANUAL CH SET", then press OK or ▷. The Confirmation screen appears.

## SELECT POSITION

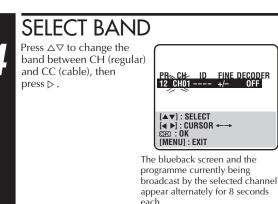
Press  $\triangle \nabla \triangleleft \triangleright$  until an open position in which you want to store a channel begins blinking, then press OK. The Manual Channel Set screen appears.

(Ex.) To store in position 12.



The blueback screen and the programme currently being broadcast by the selected channel appear alternately for 8 seconds each.

### SUBSIDIARY SETTINGS (cont



#### INPUT CHANNEL

Press the NUMBER keys to input the channel number you want to store.

- Input "0" before any single number entries.
- To input the registered station name (ID IF pg. 55), press  $\triangleright$  until "- - - -" (ID setting) begins blinking, then press  $\triangle \nabla$ .
- For fine tuning adjustment, press > until "+/-" begins blinking, then press  $\Delta \nabla$ . While tuning, "+" or "appears.
- When storing a channel that sends scrambled broadcasts, press ▷ until "OFF" (Decoder setting) blinks, then press  $\Delta \nabla$  to set "DECODER" to "ON" ("OFF" is the default setting).
- When "AV2 SELECT" is set to "VIDEO", "S-VIDEO", or "SAT", the "DECODER" setting cannot be changed (🖙 pg. 39).

#### ENTER NEW CHANNEL INFORMATION

Press OK and the Confirmation screen appears.

• Repeat steps 3 through 6 as necessary.

#### **CLOSE CONFIRMATION** SCREEN

Press MENU.

6

- To change positions, see "Change Station Channel Position" (🖙 pg. 53).
- If you wish to set station names other than the ones registered in your recorder, IF "Set Stations (B)" on page 54.

#### ATTENTION

After you have stored channels manually, be sure to perform Guide Program Number Set (127 pg. 57) in order to get proper results from SHOWVIEW timer recording.

## **Delete A Channel**

Perform steps 1 and 2 of "Storing Channels Manually" on page 52 to access the Confirmation screen before continuing.

#### SELECT ITEM

Press  $\Delta \bigtriangledown \triangleleft \triangleright$  until the item you want to delete begins blinking.

#### **DELETE CHANNEL**

Press  $\times$ .

- The item directly beneath the cancelled one moves up one line.
- Repeat steps 1 and 2 as necessary.

CLOSE CONFIRMATION SCREEN Press MENU.

#### **Change Station Channel** Position

Perform steps 1 and 2 of "Storing Channels Manually" on page 52 to access the Confirmation screen before continuing.

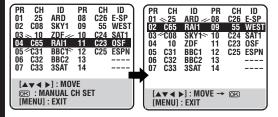
#### SELECT ITEM

Press  $\triangle \nabla \triangleleft \triangleright$  until the item you want to move begins blinking. Then press OK and the station name (ID) and its channel (CH) number begin blinking.

#### SELECT NEW POSITION

Press  $\triangle \nabla \triangleleft \triangleright$  to move the station to the new channel position, then press OK.

Example: If you moved the station in position 4 to position 2, the stations originally in positions 2 and 3 each move down one space.



• Repeat steps 1 and 2 as necessary.

CLOSE CONFIRMATION SCREEN Press MENU.

Set "AV2 SELECT" to "DECODER" (IF pg. 39).

#### ACCESS CONFIRMATION SCREEN

SELECT DECODER MODE

Perform steps 1 and 2 of "Storing Channel Manually" on page 52.

EN

#### SELECT POSITION

When Receiving A **Scrambled Broadcast** 

> Press  $\Delta \nabla \triangleleft \triangleright$  to select the channel position broadcasting scrambled programmes, then press OK twice.

#### CHANGE DECODER SETTING

Press ⊳until "OFF" (decoder setting) begins blinking, and set it to "ON" by pressing  $\Delta \nabla$ .

#### **RETURN TO CONFIRMATION** SCREEN

Press OK.

Λ

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• Repeat steps 3 through 5 as necessary.



#### ATTENTION

After you have deleted channels or changed channel positions, be sure to perform Guide Program Number Set (127 pg. 57) in order to get proper results from SHOWVIEW timer recording.



# $54_{EN}$

### Set Stations (A)

Set station names that are registered in your recorder.

Perform steps **1** and **2** of "Storing Channels Manually" on page 52 to access the Confirmation screen before continuing.

ACCESS MANUAL CHANNEL SET SCREEN

Press OK twice.

#### SELECT NEW STATION

Press ▷ until the station name (ID) begins blinking, then press △マ until the new station's name (ID) you want to store begins blinking. Registered station names



Registered station names ( $\mathbb{L}$  pg. 55) appear as you press  $\Delta \nabla$ .



## SWITCH STATIONS

Press OK.

The Confirmation screen appears.
Repeat steps 1 through 4 as necessary.

• Repeat steps 1 through 4 as necessary.

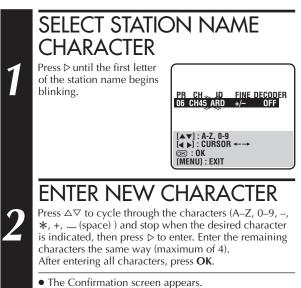
#### CLOSE CONFIRMATION SCREEN

Press MENU.

## Set Stations (B)

Set station names other than the ones registered in your recorder.

Perform steps 1 and 2 of "Storing Channels Manually" on page 52 to access the Confirmation screen and then perform steps 1 and 2 of "Set Stations (A)" on the left before continuing.



If you make a mistake, press < until the incorrect character begins blinking. Then enter the correct character by pressing △∇.</li>

### CLOSE CONFIRMATION SCREEN

Press MENU.

5

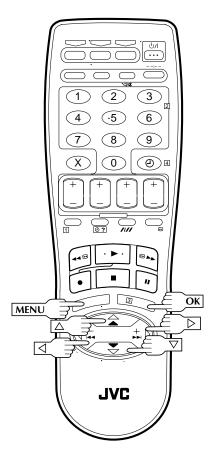
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## **TV Station And ID List**

1000         TV1000         ORF2         ORF2         ORF3           ANT3         ANTTA         ADUIT         ADUIT         OW13         OW13           ANT3         ANTENA3         PREM         PREMERE         ARTE           ARD         ARD         RATE         RATE         RATE           ARD         ARD         RATE         RATE         RATE           BBC         BBC GROUP         RATE         RATE         RATE           BBC1         BBC GROUP         RATE         RATE         RATE           BBC1         BBC GROUP         RATE         RATE         RATE           C+         CANALES         RTEF         RTET         RTET           C+         CANALES         RTL         RTL         RTL           CH         CHANAELS         RTL         RTL         RTL           CH4         CHANNELS         RTL         RTL         RTL           CH1D         CHT         RTL         RTL         RTL           CMT         CMT         CMT         STTT         STTT           CMT         CMT         STTT         STTT         STTT           CMT         CMT         STTT	ID*	STATION NAME	ID*	STATION NAME
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\* The "ID" abbreviation is what is shown on-screen in lieu of the station name. The "ID" abbreviation is listed in the Confirmation screen and is displayed on the TV screen when the recorder is tuned to a different station.

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#### SUBSIDIARY SETTINGS (cont.)

#### Fine-Tuning Channels Already Stored

Perform steps 1 and 2 of "Storing Channels Manually" on page 52 to access the Confirmation screen before continuing.

#### SELECT CHANNEL TO FINE-TUNE

Press  $\Delta \nabla \triangleleft \triangleright$  until the channel you want to tune begins blinking.

#### ACCESS MANUAL CHANNEL SET SCREEN

Press **OK** <u>twice</u>. The Manual Channel Set screen appears.

#### PERFORM TUNING

Press  $\triangleright$  until "+/-" begins blinking, then press  $\triangle \nabla$  until the picture is its clearest. Then press **OK**.

The Confirmation screen appears.Repeat steps 1 through 3 as necessary.

#### CLOSE CONFIRMATION SCREEN

Press MENU.

Ζ

3

# **SHOWVIEW** Setup

#### IMPORTANT

Normally, Auto Set Up (IIP pg. 6) or Auto Channel Set (IIP pg. 50) sets the Guide Program Numbers automatically. You need to set the Guide Program Numbers manually only in the following cases.

- When timer-programming with SHOWVIEW, the channel position, where the station you wish to record is received on your recorder, is not selected.
- Set the Guide Program Number for that station manually.
- When you add/delete a channel or change channel positions manually after Auto Set Up or Auto Channel Set has taken place.
- Set the Guide Program Numbers for all the receivable stations manually.
- When you wish to timer-record a satellite programme with SHOWVIEW.
- Set the Guide Program Numbers for all satellite broadcasts received on your satellite tuner.

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

### Guide Program Number Set

ACCESS MAIN MENU ENTER RECEIVING **SCREEN** CHANNEL POSITION Press MENU. NUMBER Press  $\triangle \nabla$  or **NUMBER** 5 GUIDE PROG SET keys to input the number ACCESS INITIAL SET of the recorder's channel position on which the **GUIDE PROG** TV PROG **SCREEN** Guide Program number's 2 2 broadcast is received. Press  $\Delta \nabla$  to move the highlight bar (pointer) to Then press **OK** or  $\triangleright$ . "INITIAL SET", then press **OK** or  $\triangleright$ .  $[\blacktriangle \lor] \rightarrow \bigcirc \ltimes$ [MENU] : EXIT If the satellite broadcast is received on your (Ex.) If ZDF is received on ACCESS GUIDE PROG SET recorder's auxiliary channel position 2. channel "L-2", select SCREEN "L-2" for the channel position. Repeat steps 4 and 5 as necessary. Press  $\Delta \nabla$  to move the highlight bar (pointer) to "GUIDE PROG SET", then press OK or  $\triangleright$ . RETURN TO NORMAL SCREEN ENTER GUIDE PROG Press MENU. NUMBER Press  $\triangle \nabla$  or **NUMBER** keys GUIDE PROG SET to enter the Guide Program number for the desired station as shown in the TV **GUIDE PROG** TV PROG **Guide Program Number** listings. Then press 2 5 **OK** or ▷. "Guide Program (GUIDE PROG) number" refers to the assigned TV station numbers, according to broadcast area, for SHOWVIEW timer recording. The Guide Program numbers can  $[\blacktriangle \lor] \rightarrow \bigcirc \land$ [MENU] : EXIT

be found in most TV listings.

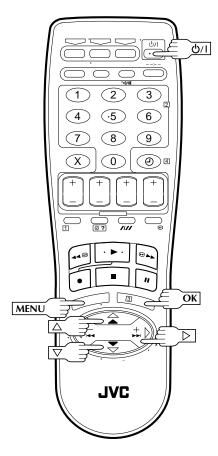
(Ex.) When inputting the Guide Program number 2 for ZDF.



#### SUBSIDIARY SETTINGS (cont.)

# **Clock Set**

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



#### Just Clock

The Just Clock function provides accurate time keeping through automatic adjustments at regular intervals, by reading data from a PDC signal.

The Just Clock option can be set "ON" or "OFF" at the Clock Set screen (the default setting is "OFF"). Press **OK** until the Just Clock setting begins blinking, then press  $\Delta \nabla$  to change the setting.

**IMPORTANT:** If you turn off Just Clock, the accuracy of your recorder's built-in clock may be reduced, which could adversely effect timer recording. We recommend you to keep Just Clock on. In cases where the clock setting data from a PDC signal is incorrect, however, you are advised to keep Just Clock set to "OFF".

#### IMPORTANT

If you performed Auto Set Up (IF pg. 6) or Auto Channel Set (IF pg. 50), without ever having set the clock previously, the recorder's built-in clock is also set automatically. Perform the following steps only if —

- Auto Clock Set has not been performed correctly by Auto Set Up or Auto Channel Set.
- the recorder's memory backup has expired.
- you want to change Just Clock setting (IP "Just Clock" in the left column).

#### 

#### ACCESS MAIN MENU SCREEN

Press MENU.

3

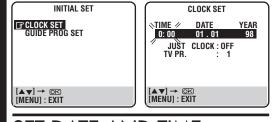
5

#### ACCESS INITIAL SET SCREEN

Move the highlight bar (pointer) to "INITIAL SET" by pressing  $\Delta \nabla$ , then press **OK** or  $\triangleright$ .

#### ACCESS CLOCK SET SCREEN

Move the highlight bar (pointer) to "CLOCK SET" by pressing  $\Delta \nabla$ , then press **OK** or  $\triangleright$ . The Clock Set screen appears.

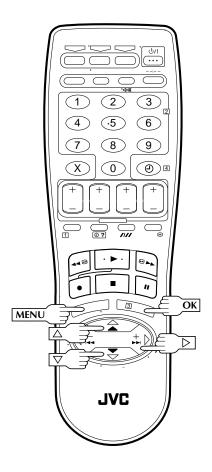


#### SET DATE AND TIME

Press  $\Delta \nabla$  to set the time, then press **OK** or  $\triangleright$ . The "date" display begins blinking. Repeat the same procedure to set the date and year.

- When you set the time, press and hold △⊽ to change the time by 30 minutes.
- When you set the date, press and hold △▽ to change the date by 15 days.

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#### SET JUST CLOCK

The default setting is "OFF". Set as desired by pressing  $\triangle \nabla$ , then press **OK** or  $\triangleright$ .

- For the Just clock function, 🖙 "Just Clock" on page 58.
- If you set to "OFF", you can disregard the next step as you won't be able to receive regular clock adjustments.

#### SET CLOCK DATA SOURCE CHANNEL POSITION

The recorder is preset to receive clock setting and adjustment data from channel position 1. Press  $\Delta \nabla$  to set the channel position to the number representing the station transmitting clock setting data, then press **OK** or  $\triangleright$ .

START CLOCK OPERATION Press MENU.

**NOTES:** 

6

- Just Clock (when set to "ON") adjusts the recorder's built-in clock every hour, except for 23:00, 0:00, 1:00 and 2:00.
- Just Clock is not effective when . . .
  - the recorder's power is on.
  - the recorder is in the Timer mode.
  - a difference of more than 3 minutes exists between the built-in clock's time and the actual time.
  - the recorder is in the Auto Satellite Prog Rec mode (E pg. 32).
- the recorder is in the Power Save mode ( pg. 11).
  If Just Clock is set to "ON", the recorder's clock is automati-
- cally adjusted at the start/end of Summer Time.
- Just Clock may not function properly depending on the reception condition.

# $60_{EN}$

#### TROUBLESHOOTING

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

POWER		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
1. No power is applied to the recorder.	• The mains power cord is disconnected.	Connect the mains power cord.
2. The clock is functioning properly, but the recorder cannot be powered.	<ul> <li>"O" is displayed on the display panel with Auto Timer set to "OFF".</li> </ul>	Press the @ button to turn the "@" indicator off.
3. The remote control won't function.	• The batteries are discharged.	Replace the dead batteries with new ones.
TAPE TRANSPORT		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
1. The tape does not run during recording.	• """ is displayed on the display panel.	Press <b>PLAY</b> to turn the """ indicator off.
2. The tape will not rewind or fast- forward.	• The tape is already fully rewound or fast-forwarded.	Check the cassette.
PLAYBACK		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
<ol> <li>The playback picture does not appear while the tape is running.</li> </ol>	<ul> <li>If you're using the RF OUT connection the TV receiver's channel selector is not set to the VIDEO channel the recorder's VIDEO channel has not been correctly set.</li> <li>If you're using the AV or S-VIDEO connection, the TV receiver is not set to the AV mode.</li> </ul>	If you are using the RF OUT connec- tion set the TV receiver to the VIDEO channel. (IF pg. 7) perform "Video Channel Set". (IF pg. 49) If you are using the AV or S-VIDEO connection, set the TV to its AV mode.
2. Noise appears during normal playback.	• The automatic tracking mode is engaged.	Try manual tracking. (🖙 pg. 15)
3. The playback picture is blurred or interrupted while TV broadcasts are clear.	• The video heads may be dirty.	Consult your JVC dealer.
4. Breaks are noticeable in Hi-Fi soundtrack	• Automatic tracking is engaged.	Engage and adjust tracking manually. (ध्र्व pg. 15)
RECORDING		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
1. Recording cannot be started.	• There is no cassette loaded, or the cassette loaded has had its Record Safety tab removed.	Insert a cassette, or using adhesive tape, reseal the slot where the tab was removed.
2. TV broadcasts cannot be recorded.	• "L-1", "L-2", "F-1" or "S-1" has been selected as the input mode.	Set to the desired channel.
3. Tape-to-tape editing is not possible.	<ul> <li>The source (another video recorder, camcorder) has not been properly connected.</li> <li>All necessary power switches have not been turned on.</li> <li>The input mode is not correct.</li> </ul>	Confirm that the source is properly connected. Confirm that all units' power switches are turned on. Set the input mode to "L-1", "L-2", "F-1" or "S-1".
<ol> <li>Camcorder recording is not possible.</li> </ol>	<ul><li>The camcorder has not been properly connected.</li><li>The input mode is not correct.</li></ul>	Confirm that the camcorder is properly connected. Set the input mode to "L-1", "L-2", "F-1" or "S-1".



TIMER RECORDING					
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION			
1. Timer recording won't work.	<ul><li> The clock and/or the timer have been set incorrectly.</li><li> The timer is not engaged.</li></ul>	Re-perform the clock and/or timer settings. Press O and confirm that "O" is displayed on the display panel.			
2. Timer programming is not possible.	• Timer recording is in progress.	Timer programming can't be performed while a timer recording is in progress. Wait until it finishes.			
3. "O" and "OD" on the display panel won't stop blinking.	<ul> <li>The timer is engaged but there's no cassette loaded.</li> </ul>	Load a cassette with the Record Safety tab intact, or cover the hole using adhesive tape.			
<ol> <li>The cassette is automatically ejected, and "℗" and "℗" on the display panel won't stop blinking.</li> </ol>	• The loaded cassette has had its Record Safety tab removed.	Remove the cassette and cover the hole with adhesive tape, or insert a cassette with the Record Safety tab intact.			
5. "O" blinks for 10 seconds and the Timer mode is disengaged.	• O 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 @ again.			
<ol> <li>The cassette is automatically ejected, the power shuts off and "O" and "OO" won't stop blinking.</li> </ol>	<ul> <li>The end of the tape was reached during timer recording.</li> </ul>	The programme may not have been recorded in its entirety. Next time make sure you have enough time on the tape to record the entire programme.			
7. SHOWVIEW does not timer-record properly.	• The recorder's channel positions have been set incorrectly.	Refer to "Guide Program Number Set" and re-perform the procedure (IPP pg. 57).			
OTHER PROBLEMS					
SYMPTOM	POSSIBLE CAUSE	<b>CORRECTIVE ACTION</b>			
1. Whistling or howling is heard from the TV during camcorder record-ing.	<ul><li> The camcorder's microphone is too close to the TV.</li><li> The TV's volume is too high.</li></ul>	Position the camcorder so its microphone is away from the TV. Turn the TV's volume down.			
2. When scanning channels, some of them are skipped over.	• Those channels have been desig- nated to be skipped.	If you need the skipped channels, restore them (🖙 pg. 52).			
3. The channel cannot be changed.	• Recording is in progress.	Press <b>PAUSE</b> to pause the recording, change channels, then press <b>PLAY</b> to resume recording.			
<ol> <li>Channel settings that were made manually seem to have changed or disappeared.</li> </ol>	<ul> <li>After the manual settings were made, Auto Channel Set was performed.</li> </ul>	Perform manual setting again.			
5. No channels are stored in the recorder's memory.	• The TV aerial cable was not connected to the recorder when Auto Set Up was performed.	Connect the TV aerial cable to the recorder properly and turn off the recorder power once, then turn the recorder power back on again. The recorder will try Auto Set Up again (27 pg. 6).			
6. The remote control won't operate the TV or satellite tuner.	• The remote control brand setting is incorrect.	Re-set the remote control to the correct brand (IIP pg. 34, 35).			

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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 beginn	iing.
Q. Can the video recorder indefinitely remain in the	he
<ul><li>still mode?</li><li>A. No. It stops automatically after 5 minutes to pro the heads.</li></ul>	tect
<ul> <li>Q. When returning from multi-speed search to not playback, the picture is disturbed. Should I be concerned about this?</li> <li>A. No, it is normal.</li> </ul>	rmal
<ul><li>Q. Other than preventing further recording, what does removing the Record Safety tab have?</li><li>A. It disables marking of index codes.</li></ul>	effect
<ul><li>Q. Sometimes, during Index Search, the video recordant tind the programme I want to see. Why n</li><li>A. There may be index codes too close together.</li></ul>	
RECORDING	
<ul> <li>Q. When I pause and then resume a recording, the of the recording before the pause is overlapped the beginning of the continuation of recording. does this happen?</li> <li>A. This is normal. It reduces distortion at the pause resume points.</li> </ul>	l by Why
Q. Can the video recorder indefinitely remain in the Record-Pause mode?	he
A. No. The video recorder goes to its Stop mode automatically after 5 minutes to protect the head	ds.
<ul><li>Q. What happens if the tape runs out during records. The video recorder automatically rewinds it to the beginning.</li></ul>	

#### TIMER RECORDING

Q	."©" and "@"	remain lit on	the display	panel. Is the	re
	a problem?				
A.	No. This is a I	normal condi	tion for a tir	ner recording	g in

progress.

. . . . . . . . . . . . . . .

Q. Can I programme the timer while I'm watching a tape or a TV broadcast?

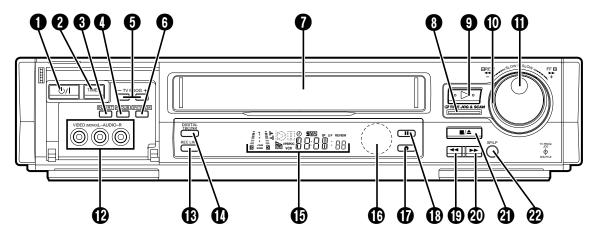
**A.** You won't see the picture as it is replaced by the onscreen menu, but the audio from the programme or tape you're viewing can be heard.

Q. Is it possible to timer-record a TV programme broadcast in 2000?A. Yes, it is possible.

#### ATTENTION

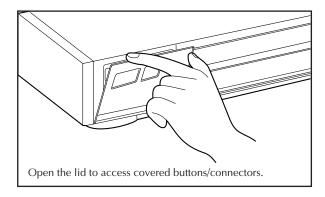
This recorder contains microcomputers. External electronic noise or interference could cause malfunctioning. In such cases, switch the recorder off and unplug the mains power cord. Then plug it in again and turn the recorder on. Take out the cassette. After checking the cassette, operate the unit as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

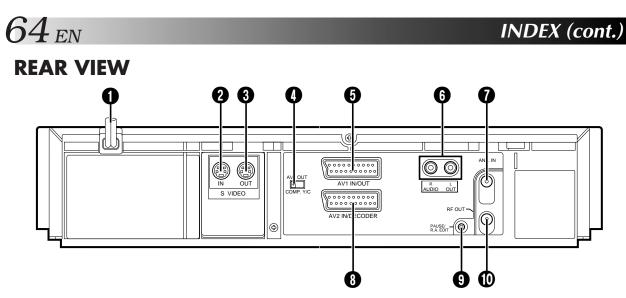
### **FRONT VIEW**



- STANDBY/ON U/I Button I pg. 6
- 2 TIMER Button 🖙 pg. 27, 29
- 3 INSERT Button ☞ pg. 40
- Audio Dubbing [A. DUB] Button 🖙 pg. 44
- **5** TV PROG +/– Buttons  $\square$  pg. 20
- SPATIALIZER Button 🖙 pg. 17
- Cassette Loading Slot
- 🚯 TIME JOG & SCAN Indicator 🖙 pg. 18
- PLAY Button 🖙 pg. 13
- 🔟 TIME SCAN SHUTTLE Ring 🖙 pg. 14, 18
- 1 TV PROG Dial 🖙 pg. 20 JOG Dial 🖙 pg. 14

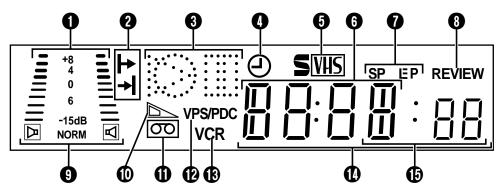
- VIDEO/AUDIO Input Connectors I pg. 37
- B REC LINK Button 🖅 pg. 32
- DIGITAL TBC/NR Button I pg. 16
- Display Panel 
  pg. 64
  Infrared Beam Receiving Window
- RECORD Button 🖙 pg. 20
- PAUSE Button \$\vec{1}\$ pg. 14
  Rewind [REW] Button \$\vec{1}\$ pg. 13, 15
- Dest-Forward [FF] Button 🖅 pg. 13, 15 ② STOP/EJECT Button ☞ pg. 13
- 2 SP/LP Button 🖙 pg. 20





- 2 S VIDEO IN Connector 🖙 pg. 37 3 S VIDEO OUT Connector ☞ pg. 5 AV1 OUT Switch 🖙 pg. 4 (5) AV1 IN/OUT Connector ☞ pg. 4, 39 6 AUDIO OUT (L/R) Connectors ☞ pg. 48
- **DISPLAY PANEL**

- ANT. IN Connector I pg. 4
- 8 AV2 IN/DECODER Connector ☞ pg. 39, 46, 47
- Remote PAUSE Connector I pg. 37
- R.A. EDIT Connector 🖙 pg. 42
- RF OUT Connector 🖙 pg. 4



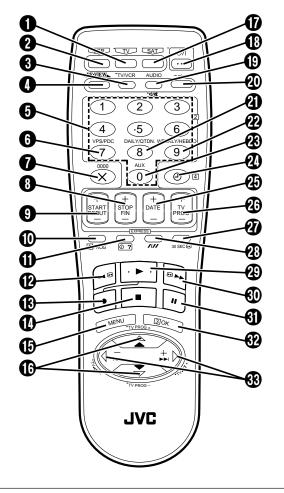
- 1 B.E.S.T. Picture System Display 🖙 pg. 24 Audio Level Indicator 🖙 pg. 23
- Programme Time Indicators I pg. 28
- Symbolic Mode Indicators

PLAY:		STILL: SLOW:		
FF/REW VARIABLE		RECORD:	$\bigcirc$	
SHOTTLE SLARCH.		RECORD PAUSE:	$\bigcirc \blacksquare$	
AUDIO DUBBING:	AUDIO DUBBING:			
AUDIO DUBBING PAUSE:				
INSERT:				
INSERT PAUSE:				
AUDIO DUBBING INSERT:				
AUDIO DUBBING INSERT PAUSE:				

- Image: Undicator □ pg. 27, 29
- 5 S-VHS Indicator 🖙 pg. 22
- 6 Channel/Clock Display 🖙 pg. 8
- ⑦ Tape Speed Indicators □ pg. 20 EP is only for NTSC playback
- 8 Instant REVIEW Indicator I pg. 15
- Audio Mode Indicator I pg. 17
  Tape Remaining Time Indicator I pg. 21
- **1** "Cassette Loaded" Mark
- VPS/PDC Indicator 🖙 pg. 27, 29
- B VCR Indicator ☞ pg. 21
- ① Counter/Remain Display
- (b) Mode Display (L-1, L-2, F-1 or S-1)

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#### **REMOTE CONTROL**



Buttons with a small dot on the left side of the name can also be used to operate your TV  $\square$  pg 34.

#### How To Use

The remote control can operate most of your video recorder's functions, as well as basic functions of TV sets and satellite tuners of JVC and other brands.  $\square$  pg. 34, 35.

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

- 1 TV Button 🖙 pg. 34
- 2 VCR Button ☞ pg. 34
- **3** TV/VCR Button pg. 21, 34
- **4** REVIEW Button **1** pg. 15
   **5** NUMBER Keys **1** pg. 20, 26
- 6 VPS/PDC Button ☞ pg. 27, 29
- **(a)** X Button □ pg. 20
   **(b)** X Button □ pg. 30
   0000 Button □ pg. 21, 43
- **8** STOP +/− Button 🖙 pg. 28
- **9** START +/- Button  $\square$  pg. 28
- PROG Button 🖙 pg. 26
- **① ④ ?** Button □ pg. 30
- Rewind [REW] Button 🖙 pg. 13, 15
- B Record Button ☞ pg. 20
- O Stop Button ☞ pg. 13, 20
- 🚯 MENU Button 🖙 pg. 9
- **1** SAT Button □ pg. 35
- 🚯 STANDBY/ON Ŭ/I Button 🖙 pg. 6
- B AUDIO Button ☞ pg. 17
- **虹/** (TV Muting) Button に pg. 34
- 🕹 – : – Button 🖙 pg. 21
- ⓓ DAILY Button ☞ pg. 27, 29
- WEEKLY Button ☞ pg. 27, 29
- **⑧** AUX Button ☞ pg. 37, 38
- ❷ 🕘 Button 🖙 pg. 27, 29
- Ø DATE +/− Button □ pg. 28
- 🕶 TV PROG +/– Button 🖙 pg. 20
- 2 30 SEC Button □ pg. 15
- /// (Auto Tracking) Button I pg. 15
   SP/LP Button I pg. 20
- Play Button 🖙 pg. 13
- 🛽 Fast Forward [FF] Button 🖙 pg. 13, 15
- 🚯 Pause Button 🖙 pg. 14
- 🚱 OK Button 🖙 pg. 7
- ③ < ▷ Button ☞ pg. 14, 18</li>
   TV ∠ +/-Button ☞ pg. 34

#### **NOTES:**

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

#### **ATTENTION**

- The remote control can operate not only the video recorder but also some of your TV and satellite tuner's functions.
- To operate your video recorder, first press the VCR button to set the remote control to the Video mode.
- To operate your TV, first press the **TV** button to set the remote control to the TV mode (IF pg. 34).
- To operate your satellite tuner, first press the SAT button to set the remote control to the Satellite tuner mode (IF pg. 35).



#### **SPECIFICATIONS**

#### GENERAL

Power requirement	: AC 220 – 240 V∼, 50/60 Hz
Power consumption	
Power on	: 26 W
Power off	: 5.5 W
Power save	
(HR-S8500E only	):3W
Temperature	
Operating	: 5°C to 40°C
Storage	: -20°C to 60°C
Operating position	: Horizontal only
Dimensions (WxHxD)	: 430 x 94 x 348 mm
Weight	: 4.6 kg
Format	: S-VHS/VHS PAL standard
Maximum recording tim	ie
(SP)	: 240 min. with E-240 video
	cassette
(LP)	: 480 min. with E-240 video
	cassette

#### **VIDEO/AUDIO**

Signal system	: PAL-type colour signal and CCIR monochrome signal,625 lines 50 fields
Recording system	: DA4 (Double Azimuth) head helical scan system
Signal-to-noise ratio	: 45 dB
Horizontal resolution	: 250 lines (VHS) 400 lines (S-VHS)
Frequency range	<ul> <li>70 Hz to 10,000 Hz</li> <li>(Normal audio)</li> <li>20 Hz to 20,000 Hz</li> <li>(Hi-Fi audio)</li> </ul>
Input/Output	: 21-pin scart connectors : IN/OUT x 1, IN/DECODER x 1 RCA connectors: VIDEO IN x 1, AUDIO IN x 1, AUDIO OUT x 1 S-Video connectors: IN x 1, OUT x 1

#### TUNER/TIMER

TV channel storage	
capacity	: 99 positions (+AUX position)
Tuning system	: Frequency synthesized tuner
Channel coverage	: VHF 47 - 89/104 - 300/
0	302 – 470MHz
	UHF 470 – 862MHz
Aerial output	: UHF channels 22 – 69
	(Adjustable)
Memory backup time	: Approx. 60 min.
ACCESSORIES	

#### Provided accessories

: RF cable, Infrared remote control unit, "R6" battery x 2

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

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/ V		///		




HR-S8500E/EH

# Auto Set Up – referring to the display panel

The Auto Set Up function sets the tuner channels, clock, Guide Program numbers and video channel\* automatically. \* Useful for RF connection users.

#### **BEFORE YOU START PLEASE MAKE SURE THAT:**

- The TV aerial cable is connected to the ANT.IN jack on the rear panel of the video recorder.
- The video recorder's mains power cord is connected to a mains outlet.

Press  $\Delta \nabla$  (remote) to select the international telephone country code.

The video recorder is turned off.

(Ex.) DEUTSCHLAND is selected.

International Telephone

Country Code

- Load batteries into the remote control.
- **1** Press U/I (recorder/remote).

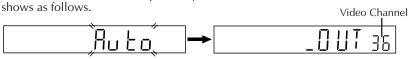


: 41 SUISSE SUOM · 358 : 39 PORTUGAL ITALIA : 351 : 49 ESPAÑA DEUTSCHLAND : 34 If you have selected a country code other than 32 BELGIUM NORGE : 47 · 32 (BELGIUM) or 41 (SUISSE), go to step 3. NEDERLAND : 31 SVERIGE : 46 GREECE DANMARK : 45 : 30 OTHERS ÖSTERREICH : 43 · \_ \_ • If you have selected 32 (BELGIUM) or 41 (SUISSE), press **OK** (remote) and select the language code by pressing  $\Delta \nabla$  (remote), then <u>go to step 3</u>. (Ex.) FRANCAIS is selected for BELGIUM Language Code ENGLISH NEDERLANDS : 01 : 06 DEUTSCH : 02 **SVENSKA** : 07 FRANCAIS · 03 NORSK · 08 **ITALIANO** : 04 SUOMI : 09

CASTELLANO

Press **OK** (remote). <u>Do NOT</u> press any button on the video recorder or remote control until the display panel

Language Code



• If "- -:- -" appears on the display panel, see page 6 of the instructions.

: 10

DANSK

International Telephone Country Code

: 05

- If you have connected the video recorder to your TV via RF connection, press **OK** to finish the Auto Set Up. To view picture signals from the video recorder, set your TV to the Video Channel.
- If you have connected the video recorder to your TV via AV connection, press **TV PROG** until the display panel shows "\_OUT- --" to set the Video Channel to off, then press **OK** to finish the Auto Set Up. To view picture signals from the video recorder, set your TV to its AV mode.
- \* Once you have performed Auto Set Up, even if the recorder's memory backup has expired, the recorder will not perform Auto Set Up again. Perform tuner setting (27 pg. 50), clock setting (27 pg. 58) and/or Video Channel setting (27 pg. 49) as required.

FOR MORE INFORMATION SEE INSTRUCTIONS/P6



