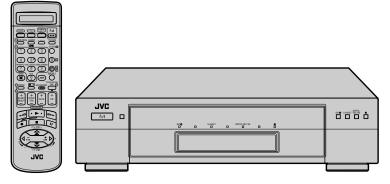
# JVC



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# VIDEO CASSETTE RECORDER HR-S9700EK







Super VHS ET



# **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.

#### IMPORTANT

- Please read the various precautions on page 2 4 of this instruction manual 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.

#### IMPORTANT

Connection to the mains supply in the United Kingdom.

**DO NOT cut off the mains plug from this equipment.** If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain a proper safety approved extension lead/ adapter or consult your dealer.

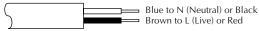
In the unlikely event of the plug fuse failing be sure to replace the fuse only with an identical approved type, as originally fitted, and to replace the fuse cover. If the fuse fails again consult your nearest JVC dealer.

If nonetheless the mains plug is cut off remove the fuse and dispose of the plug immediately, to avoid a possible shock hazard by inadvertent connection to the mains supply.

If this product is not supplied fitted with a mains plug then follow the instructions given below:

DO NOT make any connection to the Larger Terminal coded E or Green.

The wires in the mains lead are coloured in accordance with the following code:



If these colours do not correspond with the terminal identifications of your plug, connect as follows: Blue wire to terminal coded N (Neutral) or coloured Black. Brown wire to terminal coded L (Live) or coloured Red.

If in doubt — consult a competent electrician.



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".

By using the S-VHS ET function, it is possible to record and play back with S-VHS picture quality on VHS cassettes with this recorder.

 VIDEO Plus+ and PlusCode are registered trademarks of Gemstar Development Corporation. The VIDEO Plus+ system is manufactured under license from Gemstar Development Corporation.

#### 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.

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

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

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

#### 1. <u>DO NOT</u> place the recorder . . .

- ... in an environment prone to extreme temperatures or humidity.
- ... in direct sunlight.
- ... in a dusty environment.
- ... in an environment where strong magnetic fields are generated.
- ... on a surface that is unstable or subject to vibration.
- 2. DO NOT block the recorder's ventilation openings.
- 3. 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.

# Some Do's And Don'ts On The Safe Use Of Equipment

This equipment has been designed and manufactured to meet international safety standards but, like any electrical equipment, care must be taken if you are to obtain the best results and safety is to be assured.

- **DO** read the operating instructions before you attempt to use the equipment.
- **DO** ensure that all electrical connections (including the mains plug, extension leads and interconnections between pieces of equipment) are properly made and in accordance with the manufacturer's instructions. Switch off and withdraw the mains plug when making or changing connections.
- **DO** consult your dealer if you are ever in doubt about the installation, operation or safety of your equipment.
- DO be careful with glass panels or doors on equipment.
- **DON'T** continue to operate the equipment if you are in any doubt about it working normally, or if it is damaged in any way switch off, withdraw the mains plug and consult your dealer.
- **DON'T** remove any fixed cover as this may expose dangerous voltages.
- **DON'T** leave equipment switched on when it is unattended unless it is specifically stated that it is designed for unattended operation or has a standby mode. Switch off using the switch on the equipment and make sure that your family knows how to do this. Special arrangements may need to be made for infirm or handicapped people.
- **DON'T** use equipment such as personal stereos or radios so that you are distracted from the requirements of road safety. It is illegal to watch television whilst driving.
- **DON'T** listen to headphones at high volume, as such use can permanently damage your hearing.
- **DON'T** obstruct the ventilation of the equipment, for example with curtains or soft furnishings. Overheating will cause damage and shorten the life of the equipment.
- **DON'T** use makeshift stands and NEVER fix legs with wood screws to ensure complete safety always fit the manufacturer's approved stand or legs with the fixings provided according to the instructions.
- **DON'T** allow electrical equipment to be exposed to rain or moisture.

#### ABOVE ALL...

- **NEVER** let anyone especially children push anything into holes, slots or any other opening in the case this could result in a fatal electrical shock;
- NEVER guess or take chances with electrical equipment of any kind it is better to be safe than sorry!

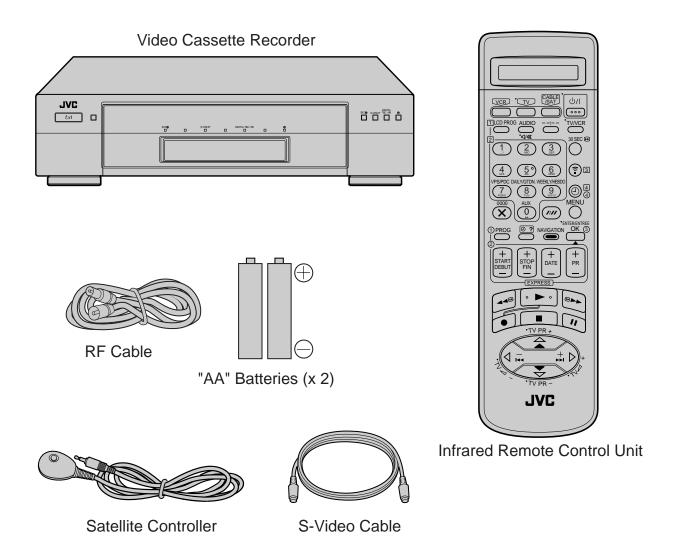
## Dear Customer,

Thank you for purchasing this JVC Video Cassette Recorder. Please use this QUICK SET UP GUIDE to help you to set up your video cassette recorder.



# **CHECK THE CONTENTS**

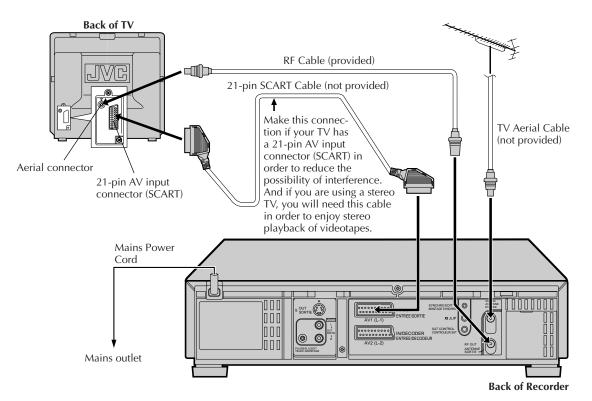
CHECK ALL THE CONTENTS SHOWN BELOW



# QUICK SET UP GUIDE (cont.)



Place the recorder on a stable, flat surface.



#### **RF CONNECTION**

To connect to a TV with NO 21-pin AV input connector (SCART) . . .

- 1- Disconnect the TV aerial cable from the TV.
- Connect the TV aerial cable to the ANT. IN jack on the rear panel of the recorder.
- 3- Connect the provided RF cable between the RF OUT jack on the rear panel of the recorder and the TV's aerial connector.

#### AV CONNECTION

To connect to a TV with 21-pin AV input connector (SCART) ...

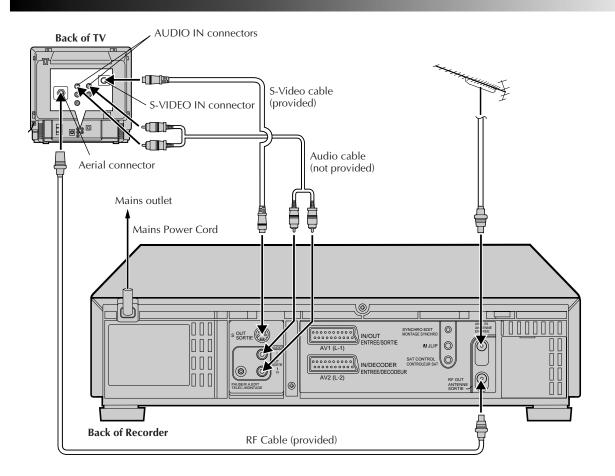
- 1- Connect the aerial, recorder and TV as per "RF CONNECTION".
- 2– Connect an optional SCART cable between the AV1 (L-1) IN/ OUT socket on the rear panel of the recorder and the TV's 21pin AV input connector (SCART).

### **NOTES:**

- The AV1 (L-1) IN/OUT connector accepts and delivers either a composite signal (regular video signal) or a Y/C signal (a signal in which the luminance and chrominance signals are separated). If your TV's 21-pin AV input connector (SCART) is compatible with the Y/C signal, set "L-1 OUTPUT" to "S-VIDEO" after the connection and the initial settings are completed (III) for connection, be sure to use a 21-pin SCART cable that is compatible with the Y/C signal.)
- 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 7.

#### ATTENTION

Do NOT Plug the mains power cord into a mains outlet until all connections are completed.
 Do NOT press the U/I button on the recorder or on the remote control to turn on the recorder's power before you start the Auto Set Up procedure described on page 8.



#### **S-VIDEO CONNECTION**

- To connect to a TV with S-VIDEO/AUDIO IN connectors . . .
- 1- Connect the aerial, recorder and TV as per "RF CONNEC-TION" (IIF pg. 6).
- Connect the recorder's S OUT connector to the TV's S-VIDEO IN connector.
- 3- Connect the recorder's AUDIO OUT connectors to the TV's AUDIO IN connectors.

## **NOTES:**

- You can obtain high-quality S-VHS pictures.
- With S-VIDEO connection, you cannot use the Preset Download function. (C) 9)
- 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. (IF pg. 63)
- 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.

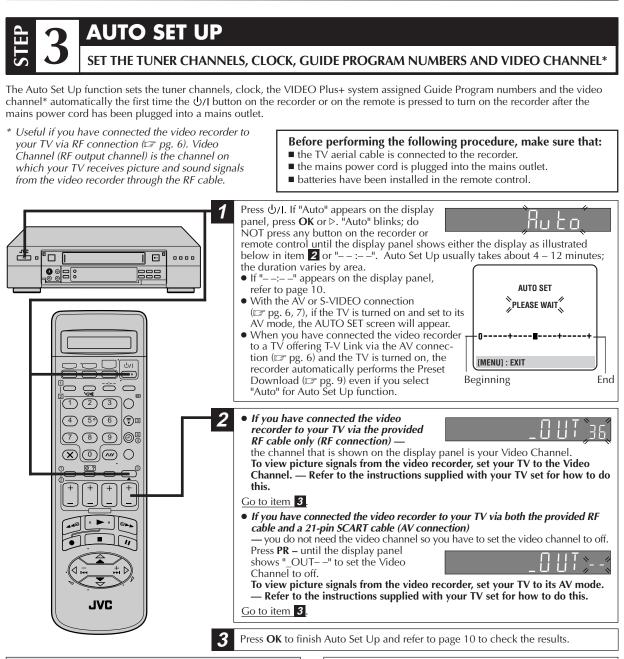
#### ATTENTION

Do NOT Plug the mains power cord into a mains outlet until all connections are completed.
 Do NOT press the U/I button on the recorder or on the remote control to turn on the recorder's power before you start the Auto Set Up procedure described on page 8.



Go to Step 3 – AUTO SET UP

# QUICK SET UP GUIDE (cont.



#### ATTENTION

Once you have performed Auto Set Up, all the stored stations, Guide Program numbers and the video channel remain in the recorder's memory and the recorder will not perform Auto Set Up again. If there is a power cut and the recorder's memory backup expires you only need to reset the clock. (🖙 pg. 73)

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

- Video Channel setting (for RF connection users) IF pg. 64
- Tuner setting □ pg. 66
   Clock setting □ pg. 73

If a new station begins broadcasting in your area, perform tuner setting (F pg. 66) and, if necessary, video channel setting (r pg. 64).

- Auto channel set function takes place first; it assigns automatically all receivable stations in your area.
- Auto clock set function sets the clock automatically.
- 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 the VIDEO Plus+ assigned Guide Program numbers for those stations according to the broadcast area.
- 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 ⊕/ 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 press  $\bigcup$ /I to turn the power back on in order to re-start Auto Set Up.

# PRESET DOWNLOAD

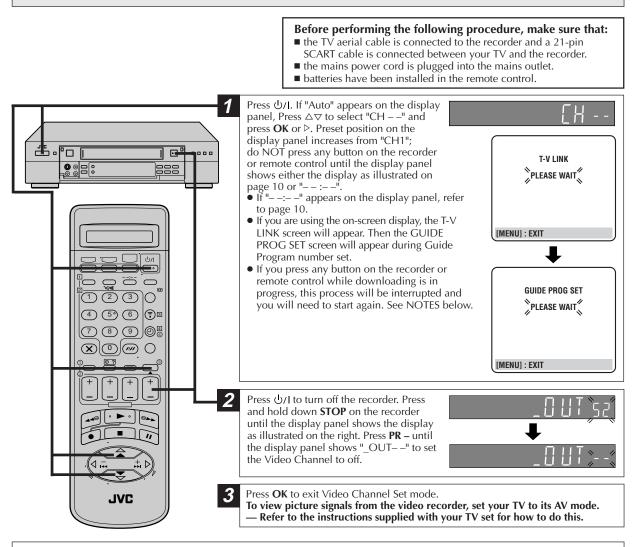
# SET THE TUNER CHANNELS BY DOWNLOADING FROM YOUR TV, CLOCK AND GUIDE PROGRAM NUMBERS

When you connect the recorder and your TV via fully-wired 21-pin SCART cable ( $\square$  pg. 6), you can set the recorder's tuner channels by downloading preset data from your TV instead of using the Auto Set Up function ( $\square$  pg. 8). After downloading is completed, the recorder sets the clock and the VIDEO Plus+ system assigned Guide Program numbers automatically. For details, refer to the instruction manual for your TV.

#### ATTENTION

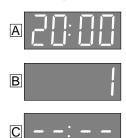
You can use this function only with a TV offering T-V Link, etc.\*

\* Compatible with TVs offering T-V Link, EasyLink, Megalogic, SMARTLINK, Q-Link, DATA LOGIC or NexTView Link via fully-wired 21-pin SCART cable. The degree of compatibility and available functions may differ by system.



- In areas where no TV station transmits the PDC signal, the recorder cannot perform either auto clock set or auto Guide Program number set.
- If there is a power cut, or if you press U/I or **MENU** while downloading or set up is in progress, it will be interrupted; be sure to turn off the recorder power once and try again from the beginning.
- Auto clock may not function properly depending on reception conditions.
- When you perform Preset Download, be sure to use fully-wired 21-pin SCART cable.
- On this recorder, the characters available for station names (ID) are A–Z, 0–9, –, ★, + and (space). The names of some downloaded stations may differ from those on your TV (□ pg. 70).

#### Auto Set Up/Preset Download results appear on the 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 item **3** on page 8 or after performing item **1** on page 9.

When auto channel set has been completed successfully but auto clock set has not, "(PR)1" will be displayed after the **OK** button is pressed in item **3** on page 8 or after performing item **1** on page 9.

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 VIDEO Plus+ Timer Programming (IP pg. 18); if the correct preset position number is displayed in step 3, this confirms that the Guide Program number for the PlusCode number you enter in step 2 has been set correctly.

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

- 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 **PR** button(s).
  - If station names  $(ID \square pg, 71)$  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 each time 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 preset positions, or to set or change station names, see pages 68 70.

#### Now you have finished the basic set up and can use your recorder for both playback and recording.

#### **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 **PR** button(s).
  - If station names (ID  $\square$  pg. 71) 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 each time 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 preset positions, or to set or change station names, see pages 68 70.

Perform "Clock Set" on page 73.

#### Now you have finished the basic set up and can use your recorder for both playback and recording.

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

- 1 Make sure that the TV aerial cable is connected properly to the recorder (for RF connection), or that the 21-pin SCART cable is connected properly between TV and the recorder (for AV connection). Turn off the recorder power once, then turn the recorder power back on again.
- 2 Perform "Auto Set Up" on page 8 or "Preset Download" on page 9.

#### 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 the VIDEO Plus+ system, the recorder will record a TV programme of a different station. When programming the timer using the VIDEO Plus+ system, be sure to check that the preset position corresponding to the broadcasting station you wish to record has been selected (IFF pg. 18, "VIDEO Plus+® 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 which have an unacceptable picture 🖙 "Delete A Channel" on page 69.
- 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. 64, "Video Channel Set".

If you have any difficulty with the above procedures call the JVC Customer Service Hot Line on 020 8208 7654

# -V LINK

# T-V Link **Functions**

When you connect the recorder and your TV via a fully-wired 21-pin SCART cable (IF pg. 6), the following functions are available. You can use these functions only with a TV offering T-V Link, etc.\*

For details, refer to the instruction manual for your TV. \* Compatible with TVs offering T-V Link, EasyLink, Megalogic, SMARTLINK, Q-Link, DATA LOGIC or NexTView Link via fullywired 21-pin SCART cable. The degree of compatibility and available functions may differ by system.

# **NexTView Link**

You can download the EPG (Electronic Programme Guide) information from your TV for timer-programming on the recorder.

For details, refer to the instruction manual for your TV.

# **TV Auto Power On**

You can turn on the TV and set it to video mode automatically whenever you play a tape. For details, refer to the instruction manual for your TV.

# VCR Auto Standby

You can use your TV's remote control to turn off the recorder. For details, refer to the instruction manual for your TV.

# **Direct Rec**

You can start recording the programme that you are watching on your TV with simple operation. Press and hold RECORD and press PLAY on the remote control, or press RECORD on the recorder.

Follow the procedure below to use this function.

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

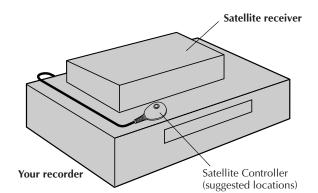
#### TURN ON THE RECORDER Press 0/1. ACCESS MAIN MENU **SCREEN** Press MENU. 2 ACCESS MODE SET **SCREEN** 3 Press $\Delta \nabla$ to move the MAIN MENU highlight bar (pointer) to AUTO CH SET AUTO CH SET MANUAL CH SET OUTPUT/INPUT SET INITIAL SET "MODE SET", then press OK or ⊳. REC LEVEL CTL **B** A FDIT VIDEO NAVIGATION [▲▼] → ©K [MENU] : EXIT SELECT DIRECT REC MODE Press $\Delta \nabla$ to move the MODE SET Λ highlight bar (pointer) to B. E. S. T. ON "DIRECT REC", then press PICTURE CONTROL AUTO **OK** or $\triangleright$ to set to "ON". AUTO TIMER OFF O. S. D. ■ DIRECT REC AUTO SP→LP TIMER AUTO SP→LP TIMER ON OFF DIGITAL 3R 0N [▲▼] → ©⊠ [Menu] : exit **RETURN TO NORMAL SCREEN** Press MENU. **NOTES:** • If "DIRECT REC" is set to "OFF", the RECORD button functions

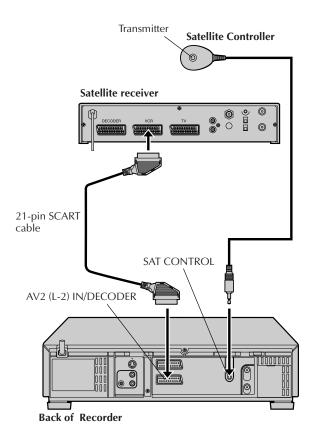
- as described in "Recording" (☞ pg. 16). During the Direct Rec, "---" appears on the display panel.
- If a programme is recorded with the Direct Rec, the station name will not be registered for the Video Navigation. "----" will be displayed for the station name.
- When you perform T-V LINK functions, be sure to use a fullywired 21-pin SCART cable.
- Direct Rec is not possible with a scrambled broadcast.
- To record a scrambled broadcast, set "DIRECT REC" to "OFF" and follow the procedure described in "Recording" on page 16.
- Retake function (g pg. 62) does not work during Direct Rec.

# 12

# Satellite Receiver Control Setting

The following procedure is required if you receive satellite channels through a satellite receiver. Around 20 seconds before VIDEO Plus+ timer recording (IF pg. 18) or Express timer programming (IF pg. 20) starts, the recorder sets its input mode to "L-2" and automatically switches the satellite receiver's channels using the provided Satellite Controller.





# SATELLITE RECEIVER CONTROL

# Installing Satellite Controller

# SITUATE SATELLITE CONTROLLER

Place the Satellite Controller so that the path between its transmitter and the satellite receiver's remote sensor is unobstructed.

## ATTACH SATELLITE CONTROLLER

2

3

Fix securely using the adhesive strip attached on the back of the Satellite Controller.

# MAKE CONNECTIONS

Be sure to connect the recorder's AV2 (L-2) IN/DECODER connector to the satellite receiver's 21-pin SCART connector.

## NOTE:

When connecting your satellite receiver, refer to its instruction manual.

## CONNECT SATELLITE CON-TROLLER TO RECORDER



Connect the Satellite Controller to the SAT CONTROL connector on the rear panel.

# Setting satellite receiver's brand and channel

After installation, set the satellite receiver's brand and channel correctly; otherwise, the Satellite Controller cannot work correctly.

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

# TURN ON SATELLITE RECEIVER

Turn on the satellite receiver's power.

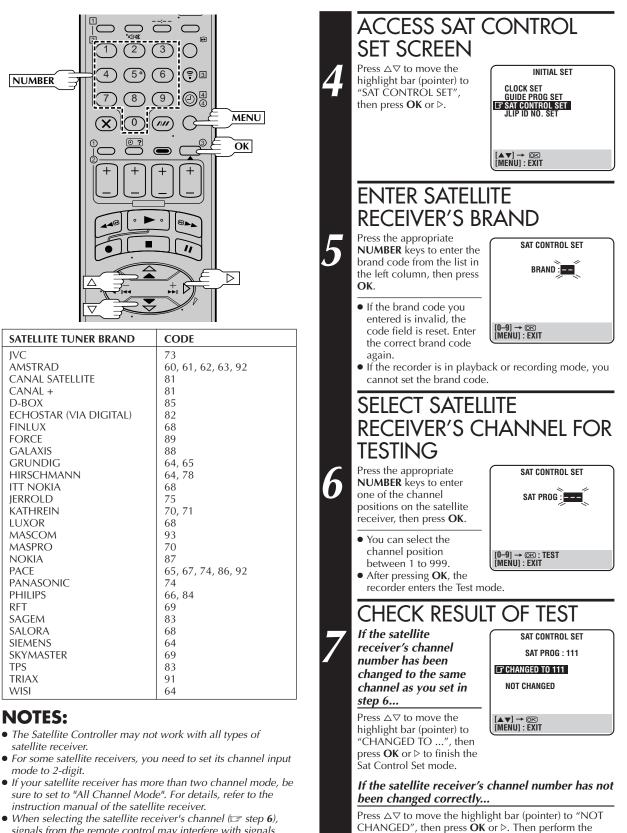
## ACCESS MAIN MENU SCREEN ON RECORDER Press MENU.

# ACCESS INITIAL SET SCREEN

Press  $\triangle \nabla$  to move the highlight bar (pointer) to "INITIAL SET", then press **OK** or  $\triangleright$ .

3



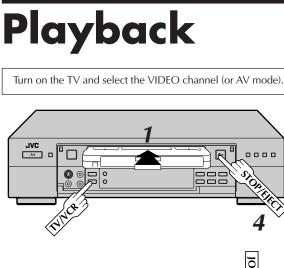


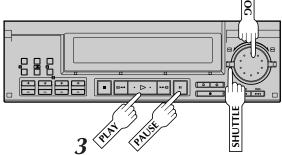
procedure again from step 5.

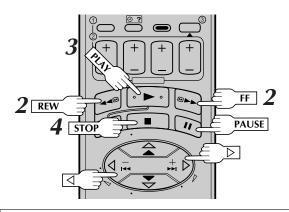
 When selecting the satellite receiver's channel (IF step 6), signals from the remote control may interfere with signals transmitted from the Satellite Controller. In this case, move the remote control as close to the recorder's infrared beam receiving window as possible.

# 14

# BASIC OPERATIONS

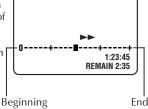






## **Tape Position Indicator**

The tape position indicator appears on screen when, from the Stop mode, you press **FF**, **REW** or perform an Index Search. The position of "■" in relation to "0" (beginning) or "+" (end) shows you where you are on the tape. "O.S.D." (II] pg. 59) must



## NOTE:

be set to "ON", or the

indicator will not appear.

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 pointing towards 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.
- While "----" is blinking on the front display panel, the tape will run for a few seconds to search for the tape number.
- 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**. To go forward, press **FF**.

## START PLAYBACK

Press **PLAY**. "BEST" appears blinking in the recorder's display panel during automatic tracking (EF pg. 38).

• Playback picture quality of LP/EP recordings will not be as high as SP recordings.

## STOP PLAYBACK

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

# Clean the video heads using a dry cleaning cassette — JVC TCL-2U — when:

- Rough, poor picture appears while a tape is played back.
- The picture is unclear or no picture appears.
- "USE CLEANING CASSETTE" appears on the screen (only with "O.S.D." set to "ON" (IFP pg. 59)).

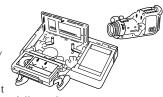
## INFORMATION

When using the AV connection ( $\square pg. 6$ ), initiating playback causes the VCR indicator to light and the TV to automatically enter AV mode. To return the TV to TV mode after playback is complete, press **TV/VCR** so that the VCR indicator turns off.

\* Depending on the type of TV used, **TV/VCR** button does not always function as described above.

#### Usable cassettes

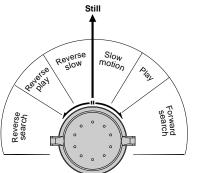
• Compact VHS camcorder recordings can be played on this video recorder. Simply place the recorded cassette into a VHS Cassette Adapter and it



- 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.
- \* By using the S-VHS ET function, it is possible to record and play back with S-VHS picture quality on VHS cassettes with this recorder.

### NOTES:

- Refer to the SHUTTLE ring illustration below as you read the following procedures.
- Reverse playback is possible only with a tape recorded in SP mode.



## 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).
- "TIME SCAN AUDIO" must be set to "ON", or the sound will not be heard. (Er pg. 41)

### 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. Each time PAUSE is pressed the tape will advance one frame.

#### OR

Press  $\triangleleft$  or  $\triangleright$ . Each time one of these buttons is pressed the tape will move one frame in the direction of the arrow.

To resume normal playback, press PLAY.

## ATTENTION

- The operations by JOG dial/SHUTTLE ring do not include TimeScan (🖙 pg. 40).
- In the high-speed search, still, slow-motion or frame-byframe playback mode,
  - the picture will be distorted.
  - noise bars will appear.
  - there will be a loss of colour with a tape recorded in LP/ EP mode.
- Noise may appear or the picture may appear distorted with an EP-recorded tape during still, slow-motion, frame-by-frame playback or variable speed search.
- Picture may not appear during high-speed search with a tape recorded in LP/EP mode.
- 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.

# **Slow Motion**



### ACTIVATE SLOW-MOTION PLAY-BACK

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

#### OR

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

#### OR

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

To resume normal playback, press PLAY.

## **NOTES:**

- For Time Jog, see page 41.
- Manual tracking is possible during slow motion playback. (🖙 pg. 32)

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



## ACTIVATE HIGH-SPEED SEARCH

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

#### OR

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

To resume normal playback, press PLAY.

## NOTE:

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

# Variable-Speed Search



#### ACTIVATE VARIABLE-SPEED SFARCH

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

To resume normal playback, press PLAY.

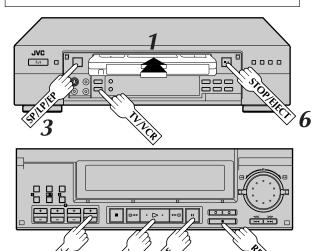
## NOTE:

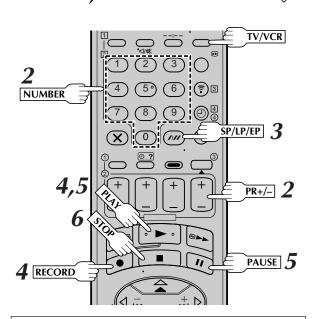
Variable-speed search with TimeScan (27 pg. 40) can be used by pressing the remote control's  $\triangleleft$  or  $\triangleright$  button.

## BASIC OPERATIONS (cont.)

# Recording

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





#### INFORMATION

When using the AV connection (IF pg. 6), you can switch between TV mode and AV mode by pressing **TV/VCR**.

\* Depending on the type of TV used, **TV/VCR** button does not function as described above.

## **Recording Resume Function**

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

## LOAD A CASSETTE

Insert a cassette with the record safety tab intact (See below).

- The counter is reset to 0:00:00 and the recorder power comes on automatically.
- While "----" is blinking on the front display panel, the tape will run for a few seconds to search for the tape number.

### CHOOSE A PROGRAMME

Press **PR +/-** or the **NUMBER** keys to select the preset you wish to record.

## SET TAPE SPEED

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

- In EP mode, the recording time is extended three times.
- If you record a programme in EP mode on this recorder, it is recommended that you play back the EP-recorded tape on this recorder.
- Picture quality of LP/EP recordings will not be as high as on SP recordings.

## 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 (or EP) recording after inserting the cassette (IFP pg. 38).

If "DIRECT REC" is set to "ON", the programme that appears on the TV screen will be recorded ( $\Box$ " pg. 11). (Only with a TV offering T-V Link)

• You can not change the preset whilst recording is in progress. To change the preset, see step 5.

### PAUSE/RESUME RECORDING

Press PAUSE. Press PLAY to resume recording.

• During the Record Pause mode, you can change the preset by pressing the **PR** +/– buttons or the **NUMBER** keys.

## STOP RECORDING

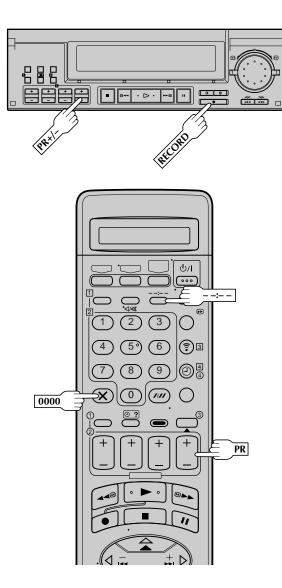
Press **STOP** on the remote control or **STOP/EJECT** on the recorder. Then press **STOP/EJECT** to remove the cassette.

#### Accidental erasure prevention

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

5





# **Tape Remaining Time**

## DISPLAY REMAINING TIME

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

- The display panel shows the tape remaining time with "
- By pressing the –: button, you can change the display to show the counter reading, preset position\*, clock time or tape remaining time.
- \* Preset 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.

## **Record One Programme** While Watching Another



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

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

# **Elapsed Recording Time** Indication

You can check the exact time of a recording.



SET COUNTER DISPLAY Press - -:- - until a counter reading appears on the display 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.

# Instant Timer Recording (ITR)

This easy method allows you to record for any length of time from 30 mins. to 6 hours (selectable in 30-min. increments), and shuts off the recorder 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:

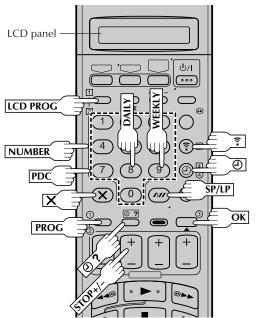
You can only perform ITR using the **RECORD** button on the recorder's front panel.

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## BASIC OPERATIONS (cont.)

# VIDEO Plus+® Timer Programming

- Before performing the VIDEO Plus+ 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).



You can use the remote control with LCD panel to enter the PlusCode number.

#### ACCESS VIDEO PLUS+ DISPLAY Press LCD PROG.

The LCD panel looks like this:

#### ENTER PLUSCODE NUMBER

Press the **NUMBER** keys to enter the PlusCode number of a programme you wish to record, then press  $\widehat{\mathbf{P}}$ .

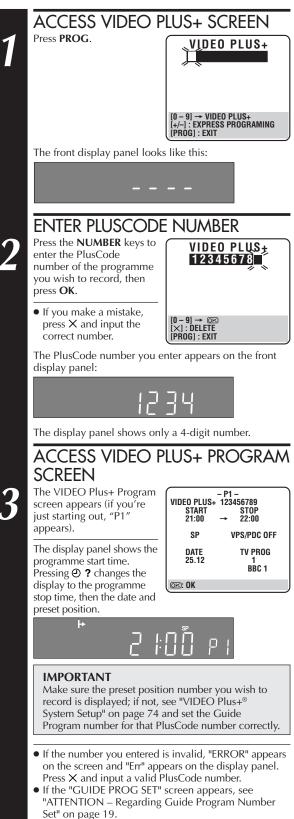
• If you make a mistake, press X and input the correct number.

The PlusCode number you enter appears on the LCD panel:



Then go to step 3 in the right column.

With the VIDEO Plus+ system, timer programming is greatly simplified because each TV programme has a corresponding code number which your recorder is able to recognise.



## SET TAPE SPEED

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

## SET PDC MODE

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

• VPS (Video Programme System) recording is not currently available in the U.K. and not possible with this recorder.

### RETURN TO NORMAL SCREEN

Press PROG or OK. "PROGRAM COMPLETED" appears on the screen for about 5 seconds, then normal screen appears. If the timer programme is overlapped with another one that was already set, "PROGRAM OVERLAPPED" appears on screen and "Err" appears on the front display panel. (Er pg. 23)

• Repeat steps 1 – 6 for each additional programme.

### ENGAGE RECORDER'S TIMER MODF

Press ② (TIMER). The recorder turns off automatically and O appears on the display panel. The O indicator on the recorder's front panel also lights up.

• To disengage the timer, press ② (TIMER) again.

## **NOTES:**

- To Change The Stop Time . . . ... press **STOP** +/- in step **3**. You can compensate for anticipated programme schedule delays this way.
- To Timer-Record Weekly Or Daily Serials . . . ... 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. 22).
- It is not possible to timer-record a TV programme with a PlusCode number which starts with "O".

#### Satellite Receiver Users

To timer-record a satellite broadcast using the VIDEO Plus+ system:

- Perform "Satellite Receiver Control Setting" (EP pg. 12). 1
- 2 Perform steps 1 - 7. In step 3, the display panel shows "L2" for the preset position. In step 5, you cannot set PDC to ON.
- 3 Leave the satellite receiver's power on.

## ATTENTION

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

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

• If you want to set the Guide Program number for the satellite broadcast station, press the NUMBER key "0" to change "TV PROG" to "SAT". Press △▽ to input the preset position number on which your recorder or satellite receiver receives that station, then press **OK** or  $\triangleright$  to set the Guide Program Number. The VIDEO Plus+ Program screen appears.



# programme with the VIDEO

\* If your recorder receives BBC2 on the preset position 2, press **OK** or ▷ after entering "2" using  $\Delta \nabla$ 

# **Timer Warnina**

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

- WARNING-TIMER RECORDING TO START SOON 凹[X]

## NOTES:

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

# **PDC** Recording

Now available from some TV stations, PDC (Programme Delivery Control) is a 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 which 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 from what has been advertised. PDC is currently available nationally on BBC1, BBC2, Ch.4 and Ch.5, except from a few small relay transmitters. Ch.3 operates a PDC service in some areas. All channels intend to offer this service in due course. Check your TV programme listing guide for latest information. If the channel you intend to record does not offer a PDC service your recorder will not start recording if PDC has been selected. Be sure to set PDC to "OFF" if PDC is not available on your selected channel (IF step 5 above).

## NOTES:

- PDC recording is also possible when a satellite receiver or a cable system is connected to AV2 (L-2) IN/DECODER on your recorder.
- PDC recording is also possible via the AV1 (L-1) IN/OUT connector.

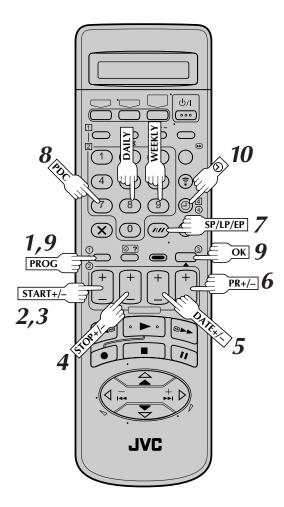
b

# BASIC OPERATIONS (cont.)

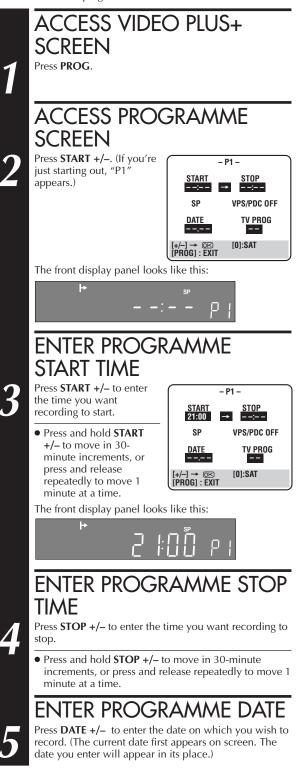
# Express Timer Programming

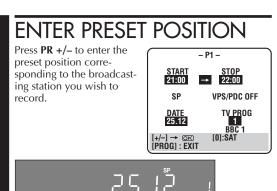
#### **Before performing Express Timer Programming:**

- 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 PlusCode number for the programme you wish to record, use the following procedure to set your recorder to timer-record the programme.





# SET TAPE SPEED

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

# SET PDC MODE

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

• VPS (Video Programme System) recording is not currently available in the U.K. and not possible with this recorder.

## RETURN TO NORMAL SCREEN

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After confirming all information is correct, press **PROG** or **OK**. "PROGRAM COMPLETED" appears on the screen for about 5 seconds, then normal screen appears. If the timer programme is overlapped with another one that was already set, "PROGRAM OVERLAPPED" appears on screen and "Err" appears on the front display panel. (**C** pg. 23)

• Repeat steps 1 – 9 for each additional programme.

## ENGAGE RECORDER'S TIMER MODE

Press O (**TIMER**). The recorder turns off automatically and O appears on the display panel. The O indicator on the recorder's front panel also lights up.

• To disengage the timer, press 🕑 (**TIMER**) again.

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 (III) pg. 22).

#### Satellite Receiver Users

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

- 1 Perform "Satellite Receiver Control Setting" (🖙 pg. 12).
- Perform steps 1 10. In step 6, press the NUMBER key "0" to change "TV PROG" to "SAT". The display panel shows "L2" for the preset position. Then press PR +/- to enter the preset position for the satellite broadcast. In step 8, you cannot set PDC to ON.
- 3 Leave the satellite receiver's power on.

## **PDC Recording**

Now available from some TV stations, PDC (Programme Delivery Control) is a 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 which 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 from what has been advertised. PDC is currently available nationally on BBC1, BBC2, Ch.4 and Ch.5, except from a few small relay transmitters. Ch.3 operates a PDC service in some areas. All channels intend to offer this service in due course. Check your TV programme listing guide for latest information. If the channel you intend to record does not offer a PDC service your recorder will not start recording if PDC has been selected. Be sure to set PDC to "OFF" if PDC is not available on your selected channel. (IF step 8 in the left column).

## **NOTES:**

- Set the start time (PDC time) exactly as advertised in the TV listing. A different time than advertised will result in no recording.
- PDC recording is also possible when a satellite receiver or a cable system is connected to AV2 (L-2) IN/DECODER on your recorder.
- PDC recording is also possible via the AV1 (L-1) IN/OUT connector.

# **Timer Warning**

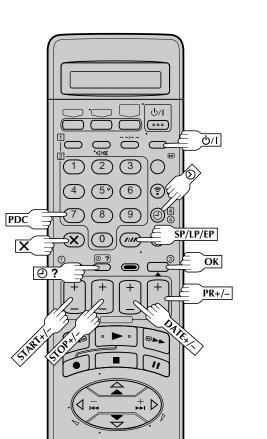
If you have programmed your recorder to timer-record a programme or a series of programmes, a warning appears on the screen to tell you that the recording is due to start in 5 minutes.

- WARNING-TIMER RECORDING TO START SOON

## **NOTES:**

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



JVC

### NOTE:

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 🖙 pg. 60) or the recorder is in the Timer mode; however, it is not possible to cancel or replace the programmes.

## **Check, Cancel And Replace Programmes**

DISENGAGE TIMER MODE Press  $\Theta$ , then press  $\Theta/I$ . ACCESS PROGRAMME CHECK SCREEN/DISPLAY Press () ?. STOP START CH DATE 3 24.12 2 25.12 1 25.12 8:00 10:00 10:00 10:45 234 11:30 13:00 5 6 7 8 [()?]: NEXT PPACCESS PROGRAMME SCREEN/ DISPLAY Press ② ? again to check 3 – P1 – more information. Each time you press ()?, the START 8:00 STOP 10:00 **→** next programme's information appears. SP **VPS/PDC OFF** DATE 24.12 TV PROG 3 [@?] : NEXT Ь • The display panel shows the programme start time. Pressing **OK** changes the display to the programme stop time, then the date and the preset position.

## To cancel or replace a programme...



Press X to cancel a programme. To replace a programme, press the appropriate button: START+/-, STOP+/-, DATE+/-, PR+/-, SP/LP/EP (////), PDC.

• You can change "TV PROG" to "SAT" for the preset position by pressing the NUMBER key "0".

#### RETURN TO NORMAL SCREEN/ DISPLAY

Press *O* ? as many times as necessary. If there are still some programmes to be recorded, go on to step 6.

## **RETURN TO TIMER MODE**

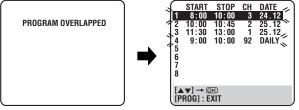


5

Press 🕘.



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



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

### CONFIRM OVERLAPPING PROGRAMMES

Overlapping programmes blink on the screen.

### SELECT PROGRAMME TO MODIFY

Press  $\Delta \nabla$ , then press **OK** or  $\triangleright$ .

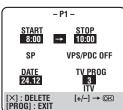
• You can only select one of the overlapping programmes.

## NOTE:

If you do not mind this overlap, press **PROG** to finish the timer programme setting. The programme with the lower programme number will be recorded and the other one will not be recorded correctly. Without doing anything for about 1 minutes, the recorder will finish the timer programming.

## CANCEL OR CHANGE PROGRAMME SETTING

**To cancel a programme,** press X when the Program screen you do not want is shown. "PROGRAM COMPLETED" appears on the screen for about 5 seconds, then normal screen appears.



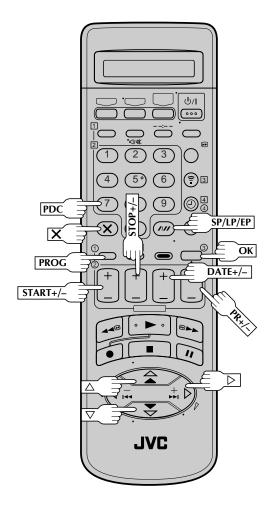
## **To change a programme,** press the appropriate

button: START+/-, STOP+/-, DATE +/-, PR +/-, SP/LP/EP (////) and/or PDC when the Program screen on which you want to make changes is shown, then press OK.

"PROGRAM COMPLETED" appears on the screen for about 5 seconds, then normal screen appears.

## NOTE:

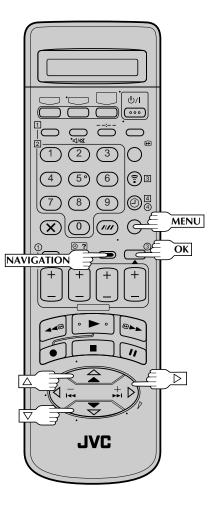
If the overlap is not yet solved or another overlap occurs with the timer programme setting made last after making correction on a programme, the conflicting programmes will be shown on the Program Check screen again. Repeat the above steps again until the overlap is solved.



# Navigation

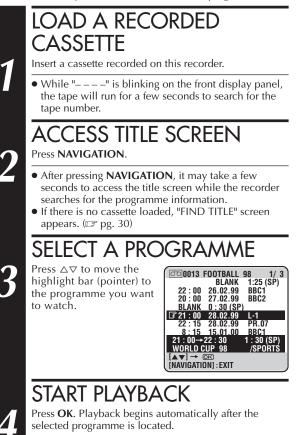
When you record a TV programme with this recorder, the recorder automatically stores in its memory the recording start time, date, channel, etc. If the tape is recorded on this recorder for the first time, new tape number and the recording date are also registered. On the tape only the tape number information is recorded.

Turn on the TV and select the AV mode.



# **Navigation Playback**

This function is useful when you wish to guickly find out what programmes you have recorded on a tape with this recorder. This function allows you to select a programme to watch, and then automatically searches for the start of the programme.



# **Check Memory**

You can check the amount of recorded information in the memory.

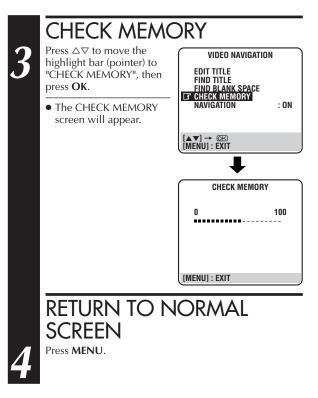
SS MAIN MENU SCREEN

Press MENU.

# ACCESS VIDEO NAVIGATION SCREEN

Press  $\triangle \nabla$  to move the highlight bar (pointer) to "VIDEO NAVIGATION", then press **OK** or  $\triangleright$ .





# **Turn Off Navigation**

If you don't want to record information on the programmes, set "NAVIGATION" to "OFF".

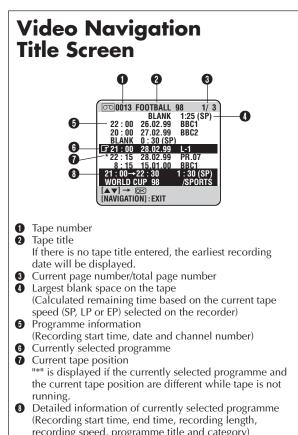
Perform steps 1 to 2 of "Check Memory" on page 24 before continuing.

#### TURN OFF NAVIGATION Press $\Delta \nabla$ to move the VIDEO NAVIGATION highlight bar (pointer) to "NAVIGATION", then FDIT TITI F FIND TITLE press **OK** or ▷ to set to FIND BLANK SPACE CHECK MEMORY NAVIGATION "OFF". : OFF

**RETURN TO NORMAL** SCREEN

 $\begin{bmatrix} \blacktriangle \lor \end{bmatrix} \rightarrow \bigcirc \\ \hline [MENU] : EXIT$ 

Press MENU.



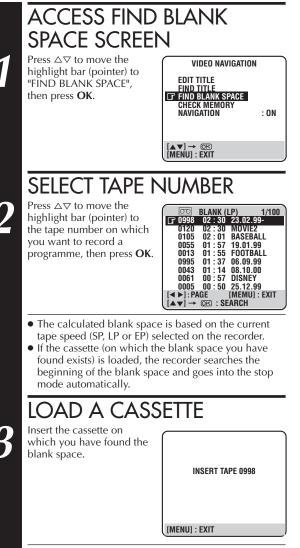
recording speed, programme title and category) If there are no title and category entered, "TITLE" and "CATEGORY" will be displayed.

- Video Navigation is possible with the cassettes recorded with this recorder only.
- To record the date and time as the programme title in this recorder's memory, make sure the recorder's clock is set correctly before recording.
- To record the programme information in this recorder's memory, you must continue to record each programme for over the minimum recording time; 8 min. for the SP mode, 15 min. for the LP mode or 23 min. for the EP mode.
- Video Navigation may not work properly depending on the cassette being used.
- Video Navigation may not work properly when an index code (VISS signal) is marked or erased manually near a start point of recorded programme. (EF pg. 36)
- If the recorder finds two tape numbers in one tape while playing back or searching for the beginning of a programme, then when you remove the tape, the tape will be assigned just one number (smaller number).
- The programme information is stored in this recorder's memory. If the memory in this recorder should ever be damaged and the programme information lost, it is impossible to restore that information.
- After recording a tape with this recorder, write the tape number on a label and affix the label to the cassette in order to allow you to find the tape by its number.

# Find Blank Space

This function is useful for finding out the blank space on a cassette and recording a new programme there.

Perform steps  $\mathbf{1}$  to  $\mathbf{2}$  of "Check Memory" on page 24 before continuing.



• The recorder searches the beginning of the blank space and goes into the stop mode automatically.

## NOTE:

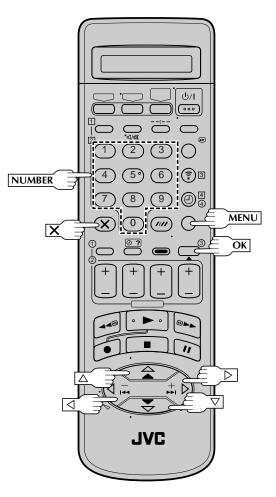
The recorder may not go into the stop mode right on the beginning of the selected blank space.

# Title Editing

You can edit the tape title and the programme titles as you like. You can also select the category in the programme title. In short, you can use the Video Navigation function to create your own video tape library.

VIDEO NAVIGATION (cont

Turn on the TV and select the AV mode.



# Edit Tape Title

ACCESS MAIN MENU SCREEN Press MENU.

## ACCESS VIDEO NAVIGATION SCREEN

Press  $\Delta \nabla$  to move the highlight bar (pointer) to "VIDEO NAVIGATION", then press **OK** or  $\triangleright$ .



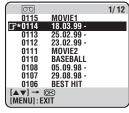
# ACCESS EDIT TITLE SCREEN

highlight bar (pointer) to "EDIT TITLE", then press **OK** or ▷.



# SELECT TAPE NUMBER

Press  $\Delta \nabla$  to move the highlight bar (pointer) to the number of the tape whose title you want to edit, then press **OK** or  $\triangleright$ .



• The "\*" mark indicates the tape number of the cassette that is currently in the recorder.

# SELECT TAPE TITLE

Press  $\Delta \nabla$  to move the highlight bar (pointer) to the tape number, then press **OK** or  $\triangleright$ . The tape title begins blinking.



• The "\*" mark indicates the current position on the tape.

## ENTER CHARACTER

Press **NUMBER** keys and ▷ to enter characters, then press **OK**.

For details, refer to "Entering Character" below.

RETURN TO NORMAL SCREEN Press MENU.

# **Entering Character**

Press the appropriate **NUMBER** key, then press ▷ to enter each character.

Refer to the example below.

#### (Ex.) Enter "JVC NEWS"

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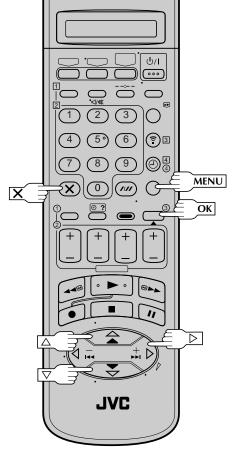
- 1 Press 5 (JKL) once to enter "J", then press  $\triangleright$ .
- 2 Press 8 (TUV) three times to enter "V", then press  $\triangleright$ .
- $\exists$  Press 2 (ABC) three times to enter "C", then press  $\triangleright$ .
- 4 Press  $\mathbf{0}$  ( $\mathbf{-}$ ) twice to enter " $\mathbf{-}$  (space)", then press  $\triangleright$ .
- 5 Press 6 (MNO) twice to enter "N", then press ▷.
- **6** Press **3** (DEF) twice to enter "E", then press  $\triangleright$ .
- 7 Press 9 (WXYZ) once to enter "W", then press  $\triangleright$ .
- B Press 7 (PQRS) four times to enter "S", then press  $\triangleright$ .

NUMBER KEY	CHARACTER	
1	.,/-+*()1	
2	A B C 2 Ä À Á Â Â Å Æ	
3	D E F 3 È É Ë Ê	
4	GHI4ÎÏÌÍ	
5	JKL5	
6	MNO6ÖÔÒÓÕØÑ	
7	PQRS7	
8	Τ U V 8 Ü Ù Û Ú	
9	W X Y Z 9	
0	0 _	

- If you make a mistake, press ⊲⊳ to select the character, then enter the correct character.
- If you want to delete a character, press ⊲▷ to select the character, then press ×.

## Edit Programme Title And Category

Perform steps 1 to 4 of "Edit Tape Title" on page 27 before continuing.



#### Press △⊽ to move the highlight bar (pointer) to the programme you want to edit, then press OK or ▷. The "TITLE" display begins blinking.



# ENTER CHARACTER

Press **NUMBER** keys and ▷ to enter characters, then press **OK**. For details, refer to "Entering Character" on page 27.

# SELECT CATEGORY

Press  $\triangle \nabla$  to select the category you want, then press **OK** or  $\triangleright$ .



[▲▼]: SELECT ©©: OK [menu]: Exit

## RETURN TO NORMAL SCREEN Press MENU.

## **Choice Of Category**

CATEGORY △  $\land \nabla$ MOVIE  $\land \nabla$ SPORTS  $\triangle \nabla$ SPECIAL  $\land \nabla$ SERIES  $\triangle \nabla$ SHOW  $\land \nabla$ MUSIC  $\triangle \nabla$ CHILDREN  $\triangle \nabla$ NEWS  $\triangle \nabla$ OTHERS ▽



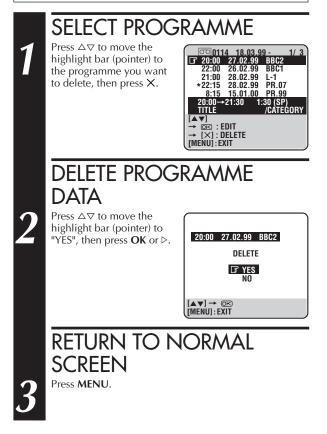
# Delete Tape Data

Perform steps  ${\bf 1}$  to  ${\bf 4}$  of "Edit Tape Title" on page 27 before continuing.

SELECT TAPE TITLE Press  $\Delta \nabla$  to move the 
 Image: Constraint of the second sec 1/3 highlight bar (pointer) to the tape number you want 21:00 28.02.99 \*22:15 28.02.99 L-1 PR.07 to delete, then press X. 8:15 15.01.00 PR.99 → © : EDIT → [×] : DELETE © [MENU]: EXIT DELETE TAPE DATA Press  $\Delta \nabla$  to move the highlight bar (pointer) to **000114** 18.03.99 -"YES", then press **OK** or  $\triangleright$ . DELETE F YES  $[\blacktriangle \lor] \rightarrow \bigcirc \land$ [MENU]: EXIT **RETURN TO NORMAL** SCREEN Press MENU.

# **Delete Programme Data**

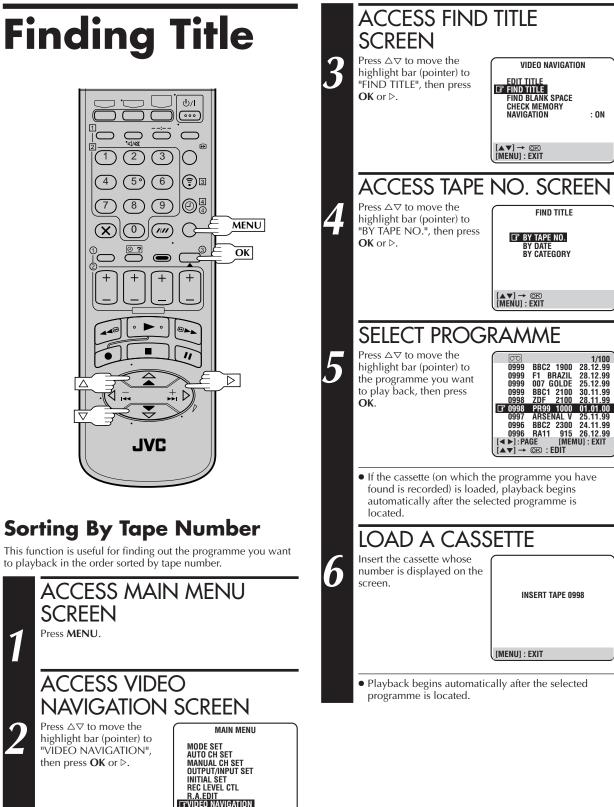
Perform steps 1 to 4 of "Edit Tape Title" on page 27 before continuing.



- When you delete data, only the tape and/or programme information is deleted from the rcorder's memory. The actual recording on the tape is not erased.
- If the recorder's memory becomes full, the recorder cannot register any more information. Delete any unnecessary data of tape or programme from the recorder's memory.

# VIDEO NAVI

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[▲▼] → OK [MENU] : EXIT

# Sorting By Date

This function is useful for finding out the programme you want to play back in the order sorted by date.

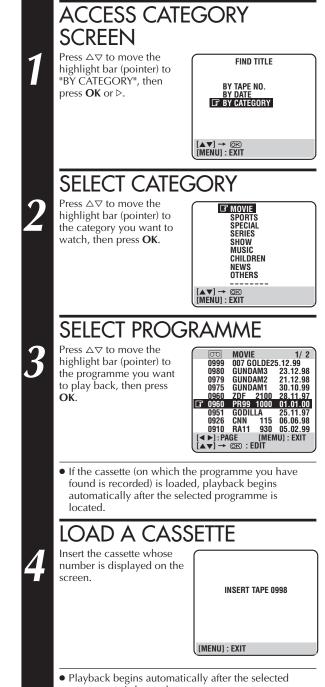
Perform steps 1 to 3 of "Sorting By Tape Number" on page 30 before continuing.

#### ACCESS DATE SCREEN Press $\Delta \nabla$ to move the FIND TITLE highlight bar (pointer) to "BY DATE", then press OK BY TAPE NO. or ⊳. BY DATE BY CATEGORY [▲▼] → OK [MENU] : EXIT SELECT PROGRAMME Press $\triangle \nabla$ to move the 1/100 highlight bar (pointer) to 0997 JAPAN VS 14.02.00 0997 JAPAN VS 14.02.00 0993 LOST WORL 02.01.00 0998 PR99 1000 01.01.00 the programme you want 0998 PR99 1000 01.00 0999 FOOTBALL 28.12.99 0999 FI BRAZIL 28.12.99 0996 RA11 2000 26.12.99 0999 OT GOLDE 25.12.99 0993 CNN 115 25.12.99 0900 PC1 2001 20.11 to play back, then press OK. 0999 BBC1 2000 30.11.99 ▶]:PAGE [MEMU]: EXIT → OK : EDIT • If the cassette (on which the programme you have found is recorded) is loaded, playback begins automatically after the selected programme is located. 3 LOAD A CASSETTE Insert the cassette whose number is displayed on the screen. **INSERT TAPE 0998** [MENU] : EXIT Playback begins automatically after the selected programme is located.

# Sorting By Category

This function is useful for finding out the programme you want to play back in the order sorted by category.

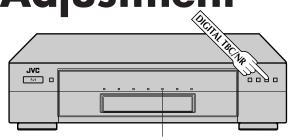
Perform steps 1 to 3 of "Sorting By Tape Number" on page 30 before continuing.



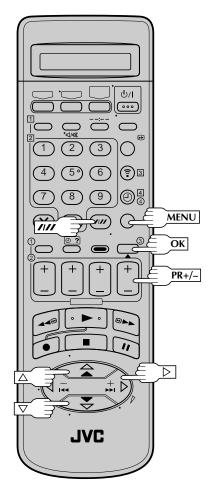
programme is located.

## ADVANCED OPERATIONS

# Playback Picture Adjustment

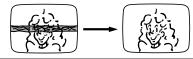


DIGITAL TBC/NR indicator



# **Manual Tracking**

Your video recorder is equipped with automatic tracking control. For most tapes this will automatically adjust the tracking to suit the particular tape you are playing. In some circumstances it may be necessary to make manual tracking adjustments. This is usually only associated with old or worn tapes or recordings made on old or worn recorders. If the automatic tracking control fails to operate correctly you will see noise bars across the picture as shown on the left below. To correct this you can override the automatic control and adjust the tracking manually by pressing the **PR** buttons.



## OVERRIDE AUTOMATIC TRACKING

Press //// on the remote to engage manual tracking.

## ADJUST TRACKING MANUALLY



Press **PR +** 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 returns to the automatic tracking mode automatically.

# **Digital TBC/NR**

Your video recorder is equipped with a 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 tapé recorded on a camcorder.
- ... playing back a tape repeatedly used.
- ... using this video recorder as the player for editing.

# ACTIVATE DIGITAL TBC/NR

1 F

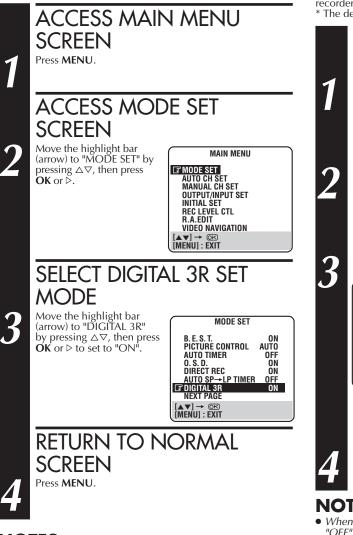
Press  $\ensuremath{\text{DIGITAL TBC/NR}}$  so that the  $\ensuremath{\text{DIGITAL TBC/NR}}$  indicator lights up.

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

- 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 proceed.
- 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.

# **Digital 3R**

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



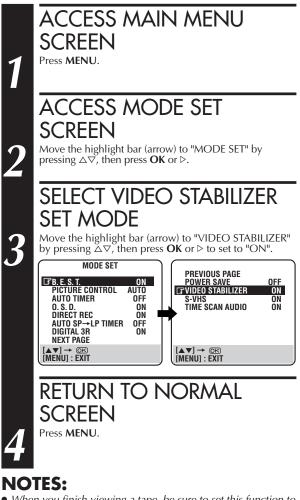
## NOTES:

- Normally it is recommendable to keep "DIGITAL 3R" set to "ON".
- Depending on the type of tape being used, picture quality may sometimes be better with "DIGITAL 3R" set to "OFF". If you use the recorder as the source player for editing, be
- sure to set "DIGITAL 3R" to "OFF" before starting.

# Video Stabilizer

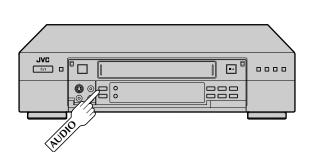
You can automatically correct vertical vibrations in the picture when playing back unstable recordings made on another recorder.

\* The default setting is "OFF".

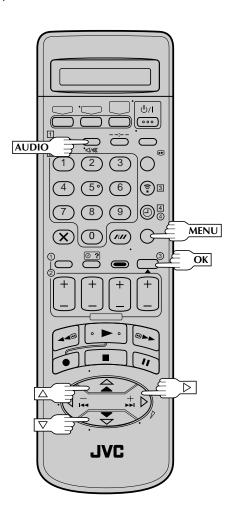


- When you finish viewing a tape, be sure to set this function to "OFF"
- Regardless of the setting, this function has no effect during recording and during special effects playback.
- The on-screen display may jitter vertically when this function is set to "ON".
- To watch recordings with close-caption, set this function to "OFF"
- Video Stabilizer and Digital TBC/NR cannot be used at the same time. If you activate Digital TBC/NR when "VIDEO STABILIZER" is set to "ON", Video Stabilizer will be automatically turned "OFF".

# 34 AD Selecting The Co Sound You Can



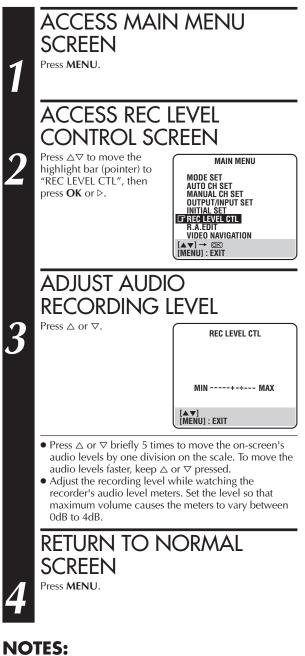
Want



## ADVANCED OPERATIONS (cont.)

## Audio Recording Level Control

In most cases, setting the audio recording level control to the centre position will provide satisfactory results. If necessary, you can adjust the audio recording level more precisely by reffering to the audio level indicator on the front panel.



- Noise will increase if the recording level is too low, while distortion will increase if the level is too high.
- When you finished Audio recording, be sure to set the level control back to its centre position.

# **Receiving NICAM Stereo And Bilingual Programmes**

Your recorder is equipped with a Digital stereo sound decoder (NICAM), making reception of stereo and bilingual broadcasts possible.

When the recorder is tuned to a different station, 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
Regular Monaural	(none)
NICAM Stereo	ST NICAM
NICAM Bilingual	BIL. NICAM
NICAM Monaural	NICAM

- To listen to a stereo programme, press AUDIO until ">" and "<" appear on the front display panel or "HI FI L > 4 R" appears on the screen.
- To listen to a bilingual programme, press AUDIO until either ">" or "<" appears on the front display panel or "HI FI L ">" or "HI FI 4" 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.

## **NOTES:**

- The NICAM audio programme will be recorded on the Hi-Fi audio track, and the Standard audio programme on the normal audio track.
- If the quality of stereo sound being received is poor, the broadcast will be received in monaural with better quality.
- Before playing back a programme recorded in stereo, or a bilingual programme, refer to "Soundtrack Selection" (See below).
- "O.S.D." must be set to "ON" or the on-screen displays will not appear ( pg. 59).

# **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 changes the soundtrack being played back as follows:

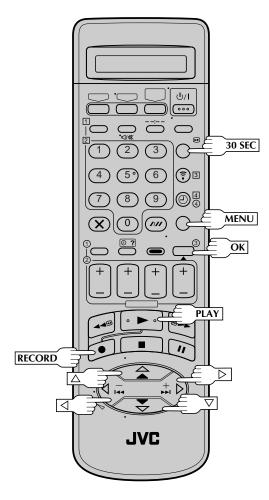
TRACK		
Recorder's Front Panel	On-Screen Display	USE
$\mathbf{P} + \mathbf{A}$	HIFI L[D≏ ett] R	For Hi-Fi stereo tapes
Д	HIFI L (DP	For main audio of Bilingual tapes
P	HI FI ୟୀ R	For sub audio of Bilingual tapes
NORM	NORM	For audio-dubbed tapes
▶ + ◀ + NORM	HI FI NORM	For audio-dubbed tapes

- "D + I" 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 NICAM stereo and bilingual programmes, see above.
- Bilingual programmes are not currently broadcast in the U.K.
- "O.S.D." must be set to "ON" or the on-screen displays will not appear (cr pg. 59).

# ADVANCED OPERATIONS (cont.

# **Looking For** The Scene You Want

36



# **Skip Search**

## SKIP OVER UNWANTED **SECTIONS**

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

## NOTE:

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

# **Index Search**

Your recorder automatically marks index codes at the beginning of each recording. Additional index codes can be added manually during playback. (See Below.) This function gives you quick access to any one of 9 index codes in either direction.



## NOTE:

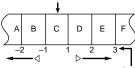
Before starting, make sure the recorder is in the Stop mode.



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.





Index number

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

# Manual Index Mark/Erase

#### To mark an index code...

- ...during playback press INDEX MARK on the recorder.
- The recorder will mark an index code at that location.
- If "O.S.D." is set to "ON" (IF pg. 59), "MARK" blinks on the screen while an index code is being marked.

#### To erase an index code...

- ...during playback or still press INDEX ERASE on the recorder.
- The recorder will fast-forward to the nearest index code and erase it. Playback continues after the index code is erased.
- If "O.S.D." is set to "ON" (IF pg. 59), "ERASE" blinks on the screen while an index code is being erased.

- Video Navigation (IIF pg. 24) may not work properly when an index code (VISS signal) is marked or erased manually near a start point of recorded programme.
- During timer recording, you cannot mark an index code manually.

# Recording According To Tape Type

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

### Super VHS ET (S-VHS ET) — Recording on VHS tapes with S-VHS quality

This function allows you to record in SP mode on VHS tapes with S-VHS picture quality. Tapes recorded using this function can be played back on a recorder equipped with the S-VHS ET function.

- You can activate this function only before you start recording on a VHS tape.
- Before recording, make sure that "B.E.S.T." is set to "ON". (IF pg. 38)

# ENGAGE S-VHS ET MODE

Press **S-VHS ET** on the recorder's front panel. The S-VHS ET indicator on the recorder's front panel lights up.

 The S-VHS indicator lights up on the front display panel.
 To disengage the S-VHS ET mode, press S-VHS ET. The S-VHS ET indicator goes off.

# START RECORDING

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

### NOTES:

- Use of high grade tapes is essential for S-VHS ET recordings. On some tapes, picture quality will not improve even if the S-VHS ET function is used. Check the recording quality before you start important recordings.
- You cannot activate the S-VHS ET function ...
  - ... while recording is in progress.
  - ... while timer-recording or Instant Timer Recording (1) pg. 17) is in progress.
  - ... while B.E.S.T. (🖙 pg. 38) is in progress.
- S-VHS ET does not work ... ... with S-VHS tapes.
  - ... with recordings in LP/EP mode.
- To keep the highest quality recording and playback pictures over a long period of time, S-VHS recording on S-VHS tapes is recommended.
- You can play back S-VHS ET recordings on most S-VHS recorders and on VHS recorders equipped with SQPB (S-VHS QUASI PLAYBACK) function. (Notice: some recorders are not compatible with this function.)
- On some tapes noise may appear when playing back a tape recorded with this function. (If playback picture becomes blurred or interrupted, use a cleaning cassette.)
- In the high-speed search, still, slow-motion or frame-by-frame playback modes (III) pg. 15), noise may appear. If these modes are used frequently on a tape recorded with the S-VHS ET function, the tape may be damaged and the picture may be deteriorated.

## Super VHS (S-VHS), S-VHS ET and VHS

Your recorder can record in S-VHS, S-VHS ET or VHS.

#### To record in S-VHS:

Perform the steps **1** – **4** below to set "S-VHS" to "ON". 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 S-VHS ET on a VHS cassette:

See "Super VHS ET (S-VHS ET)" in the left column.

#### To record in VHS:

Insert a cassette marked "VHS".

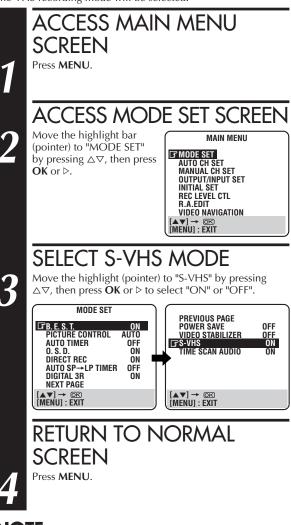
If the S-VHS ET indicator on the recorder is lit and the S-VHS ET mode is activated, press **S-VHS ET**. The indicator goes off. The VHS recording mode will be automatically selected regardless of the S-VHS mode setting.

#### 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.



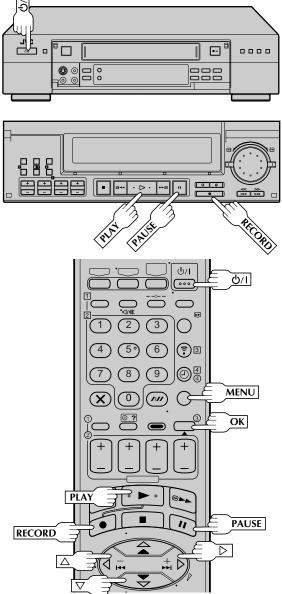
### NOTE:

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

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# Playback/ Recording According To Tape Characteristics

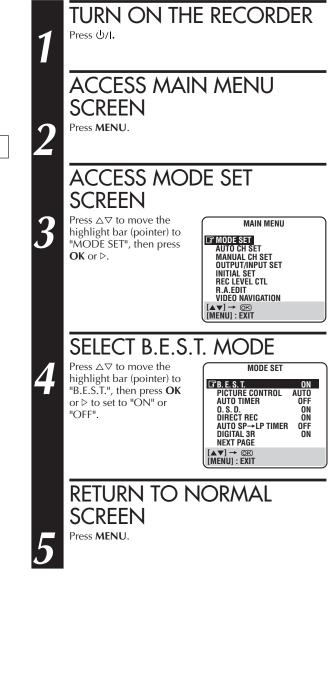
Turn on the TV and select the VIDEO channel (or AV mode).



# ADVANCED OPERATIONS (cont.)

# **B.E.S.T.** Picture System

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".

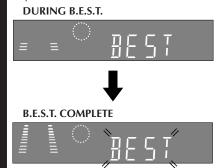


# Recording



### START RECORDING

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



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

### **NOTES:**

- The B.E.S.T. system works for both SP and LP (or EP) modes only after a tape has been inserted and the Record mode is first initiated. It does not work during recording.
- The B.E.S.T. system does not work while Auto Satellite Prog recording is in progress ( r pg. 42). • 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 (17).

### 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 when you are ready 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 38.

# Playback

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



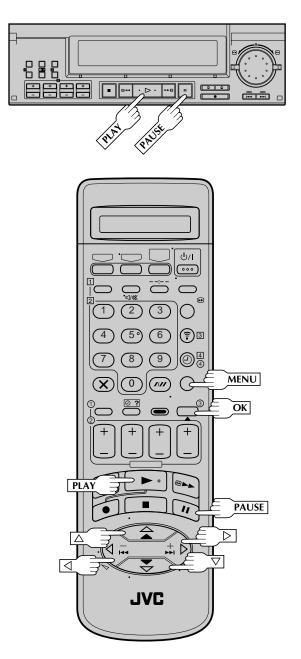
### **NOTES:**

- 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 38.
- "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.

# 40

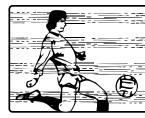
# ADVANCED OPERATIONS (cont.)

TimeScan



Your recorder is equipped with the TimeScan function. TimeScan allows noise free pictures to be displayed on your TV screen in the forward and reverse search modes. Audio will be played back at normal speed during the TimeScan modes (IIF pg. 41). TimeScan also allows you to view a programme in search mode while listening to the audio.

Recorder with TimeScan



Normal recorder



Visible

Noiseless

#### **NOTES:**

- The "TIME SCAN AUDIO" must be set to "ON", or the sound will not be heard in TimeScan mode.
- The default setting for TimeScan audio is ON. (1) pg. 41)
- The audio will not synchronize with the video in TimeScan modes.
- During 1.5x speed TimeScan the audio playback speed will also be 1.5 times normal, so dialog will sound fast-talking.
- In Pause mode 3 seconds (approx.) of audio will be played back repeatedly. (I pg. 15)
- In TimeScan search modes some of the audio information will not be played so that the audio can keep up with the video.

#### Audio signal during TimeScan

Playback tape

1 2 3 4 5

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

### Variable-Speed Search/ Reverse Play



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 page 41 for playback speeds).

To resume normal playback, press PLAY.

# **TimeScan**

Names of special-effects playback	Reverse				Forward					
	Search Play		Slow-Motion (Time Jog**)		*St	ill	Slow-Motion (Time Jog**)		Play	Play Search
Speed SP	-9x   -7x   -5x   -3x	-1x	-1/2x	-1/3x	0	)	1/3x	1/2x	1x	1.5x   2x   3x   5x   7x   9x
Speed LP	-7x     -3x		-1/2x		0	)		1/2x	1x	1.5x   2x     5x   9x
Speed EP	1 -7x $-3x$		-1/6x	-1/18x	0	(	1/18	1/6	1x	$2x^{1}$ $5x^{1}$ $9x^{1}$
Audio output	Audio is outp	out.	Audio out		Audi outp		Audi outp			Audio is output.

\* To activate the Still mode from the remote control press **PAUSE** button. Still mode cannot be engaged using the remote control's *⊲* ▷ button.

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

- $\pm 1/6x$  and  $\pm 1/18x$  search of EP recordings are not Time Jog.
- If the picture jitters vertically, noise appears or the upper or lower part of the picture is distorded at -1/2x, -1/3x, 1/3x, 1/2x or 1.5x normal speed, use **PR** + or to correct the picture.
- Noise may appear during TimeScan search, depending on the search speed.
- When noise appears or the upper or lower part of the picture is distorted during TimeScan search, press //// and adjust tracking with **PR** + or button.
- The speed is shown during TimeScan in the upper right corner of the TV screen for approx. 5 seconds. (On some TVs the display may be distorted.)
- To resume normal playback, press **PLAY**.
- Picture and audio may occasionally become distorted when the recording speed changes. If 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/EP recordings.)
- Noise may appear or the upper part of the picture may be distorted during still, frame-by-frame playback, 2x search of LP/EP recordings, or with certain tapes.
- 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.
- Depending on the tape in use, noise may appear or the upper part of the picture may be distorted.
- 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.
- Time Jog does not work with NTSC playback.
- When playing back an NTSC tape, the speeds differ from those listed above and are not shown on the TV screen.
- The operations by JOG dial/SHUTTLE ring do not include TimeScan; noise will appear on the screen and audio will not be output.

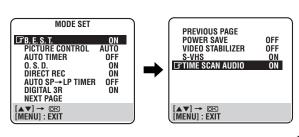
#### If you don't want to hear TimeScan audio, set the "TIME SCAN AUDIO" to OFF. (See below)

## TimeScan Audio

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

\* The default setting is "ON".

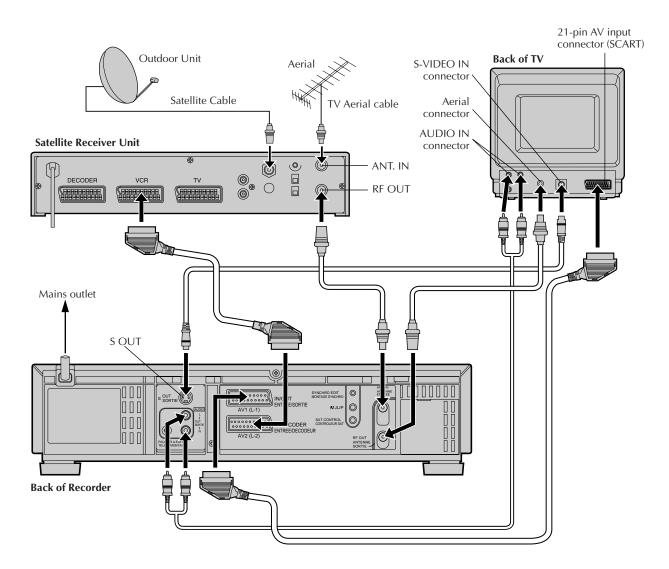
- 1 Press **MENU** to access the Main Menu screen.
- 2 Move the highlight bar (pointer) to "MODE SET" by pressing
   △▽, then press OK or ▷.
- 3 Move the highlight bar (pointer) to "TIME SCAN AUDIO" by pressing △▽, then press **OK** or ▷ to select "ON" or "OFF".
- 4 Press MENU to return to the normal screen.



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# Automatic Satellite Programme Recording

This facility allows you to record automatically a satellite programme which is timer-programmed on your external satellite receiver. Connect a satellite receiver to the recorder's AV2 (L-2) IN/DECODER connector and programme the timer on the satellite receiver; the recorder starts recording when the signals input from the satellite receiver to the AV2 (L-2) IN/DECODER connector, and when there is no input signals the recorder stops recording and the power shuts off.



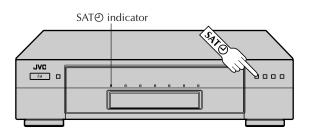
#### IMPORTANT

When you set "L-2 SELECT" to "SAT" (IP pg. 52), it is possible to view a satellite broadcast with the TV set to its AV mode even if the recorder is turned off. When the recorder is in Stop mode or recording, press **TV/VCR** on the remote control to turn off the VCR indicator on the display panel.

• If you turn on the recorder when the satellite receiver's power is off, nothing appears on the TV screen. In this case, turn on the satellite receiver, or set the TV to its TV mode, or press **TV/VCR** on the remote control to set the recorder to the video mode.

#### NOTE:

Refer to the instructions supplied with your satellite receiver.



### ATTENTION

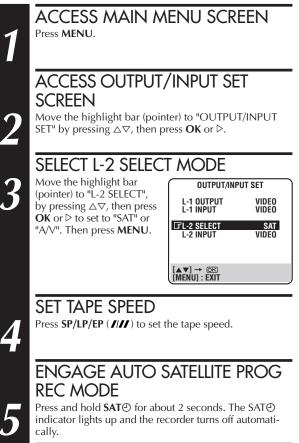
- Be sure not to turn on the satellite receiver before the programme is executed; otherwise, the recorder will start recording when the satellite receiver's power is turned on.
- If you have connected another appliance other than a satellite receiver to the AV2 (L-2) IN/DECODER connector, be sure not 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.
- When you press and hold the recorder's **SAT**<sup>(2)</sup> button to engage the Auto Satellite Prog Rec mode, if the SAT<sup>(2)</sup> indicator does not light but instead blinks quickly even though your satellite receiver's power is off, Auto Satellite Prog Recording will not work properly with that satellite receiver\*.

If this is the case, perform "Express Timer Programming" (IFP pg. 20) to timer-record a satellite programme.

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

#### Before performing the following steps:

- Make sure the satellite receiver is connected to the recorder's AV2 (L-2) IN/DECODER connector. (IF pg. 42)
- Programme the timer on the satellite receiver.
- Insert a cassette with the safety tab in place.

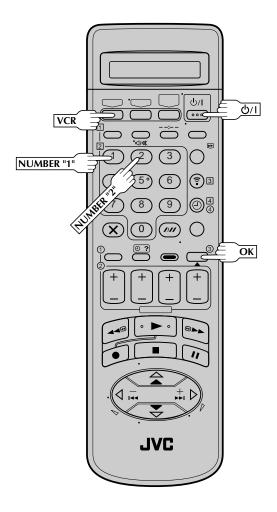


- To disengage the Auto Satellite Prog Rec mode, press **SAT**②. The SAT② indicator goes off.
- If the recorder's power is off, it is not possible to engage the Auto Satellite Prog Rec mode.

### **NOTES:**

- Auto Satellite Prog recording is possible with the AV2 (L-2) IN/DECODER connector only.
- 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".
- For timer programming of the satellite receiver, refer to the instruction manual of the satellite receiver.
- Auto Satellite Prog recording is not possible if your satellite receiver does not have a timer.
- The SAT O indicator 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 disengages the Auto Satellite Prog Rec mode.
- If there is more than one satellite programme you wish to record with Auto Satellite Prog Recording, it is not possible to set a different tape speed for each; the tape speed selected in step 4 will apply to all the programmes for Auto Satellite Prog recording.
- The B.E.S.T. system (IF pg. 38) does not work while Auto Satellite Prog recording is in progress.
- Just Clock (1) pg. 73) does not work when the Auto Satellite Prog Rec mode is engaged.
- Depending on the type of satellite receiver, the recorder may not record a short portion at the beginning of the programme or may record slightly longer than the actual length of the programme.
- If you engage the Auto Satellite Prog Rec mode when the satellite receiver's power is on, the recorder will not start Auto Satellite Prog recording even though the SAT ④ indicator blinks. When the satellite receiver shuts off once and is turned back on again, the recorder starts recording.
- You can also record a programme from your cable system in the same way if the system has a timer and is connected to the recorder's AV2 (L-2) IN/DECODER connector.

# Remote Control Functions



# ADVANCED OPERATIONS (cont.)

# Remote A/B Code Switching

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

REMOVE POWER SUPPLY

Unplug the mains power cord from the mains outlet.

## SET REMOTE CONTROL CODE

Press and hold VCR on the remote control for over 2 seconds, press the NUMBER key "2" and then press OK.

# **RE-SUPPLY POWER**



## TURN THE RECORDER ON

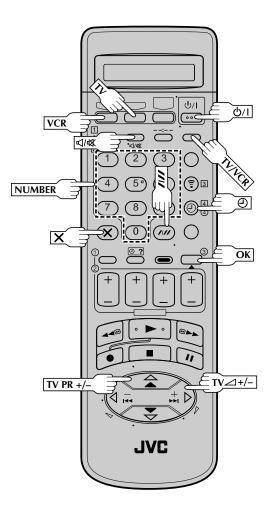
4

3

Press  $\texttt{O}/\mathsf{I}$  on the remote control. The recorder will now only respond to B code signals.

### NOTE:

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



### Control Your TV Using Additional Buttons

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

- With televisions under Code 01, 02, 07, 10, 11, 14, 20, 23, 24, 25, 27, 33 or 35, 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, 28, 29 or 34, the X button corresponds to the 10 + button, and the O 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.

### SET TV BRAND CODE

Refer to the chart below. Press and hold **TV** on the recorder's remote control for over 2 seconds, enter your TV's brand code using the **NUMBER** keys, then press **OK**.

Press  $\bigcirc/1$  on the recorder's remote control to turn on the TV and try operations ( $\square$  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 batteries.
- JVC and SAMSUNG have more than one code. If the TV does not function with one code, try entering another.

# OPERATE TV

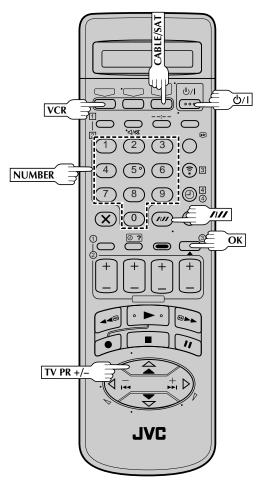
First, press TV to set the remote control to TV mode, then press the corresponding button: ①/I, TV PR +/-, TV/VCR, TV 二 +/- (Volume), ①/试 (Muting), NUMBER kevs.

- For some brands of TV, you must press **OK** after having pressed the **NUMBER** keys.
- To return the remote to video recorder control, press VCR.

### 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, 23, 24, 25
BLAUPUNKT	19
BRANDT	26
FERGUSON	27
FINLUX	30
FUNAI	32
LG/GOLDSTAR	18
GRAETZ	28
GRUNDIG	19
HITACHI	10
ITT	28
LUXOR	28
MITSUBISHI	03
MIVAR	29
NEC	20
NOKIA	31
NORDMENDE	26
PANASONIC	11
PHILIPS	02 26
SABA	
SALORA Samsung	28
SELECO	02, 12, 33, 34, 35 28
SHARP	06
SONY	07
TELEAVIA	26
TELEFUNKEN	26
THOMSON	26
TOSHIBA	14
	· · ·



SATELLITE TUNER BRAND	CODE
JVC	73
AMSTRAD	60, 61, 62, 63, 92
CANAL SATELLITE	81
CANAL +	81
D-BOX	85
ECHOSTAR (VIA DIGITAL)	82
FINLUX	68
FORCE	89
GALAXIS	88
GRUNDIG	64, 65
HIRSCHMANN	64, 78
ITT NOKIA	68
JERROLD	75
KATHREIN	70, 71
LUXOR	68
MASCOM	93
MASPRO	70
NOKIA	87
PACE	65, 67, 74, 86, 92
PANASONIC	74
PHILIPS	66, 84
RFT	69
SAGEM	83
SALORA	68
SIEMENS	64
SKYMASTER	69
TPS	83
TRIAX	91
WISI	64

# ADVANCED OPERATIONS (cont.)

### Satellite Receiver Multi-Brand Remote Control

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

## SET SATELLITE RECEIVER BRAND CODE

Refer to the chart in the left column. Press and hold CABLE/SAT on the recorder's remote control for over 2 seconds, enter your satellite tuner's brand code using the NUMBER keys, then press OK.

Press  $\bigcirc$ /I on the recorder's remote control to turn on the satellite receiver and try operations ( $\square \square$  step 2).

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

## OPERATE SATELLITE RECEIVER

First, press CABLE/SAT to set the remote control to satellite tuner mode, then press the corresponding button:  $(\mathcal{O}/I, TV PR +/-, NUMBER$  keys.

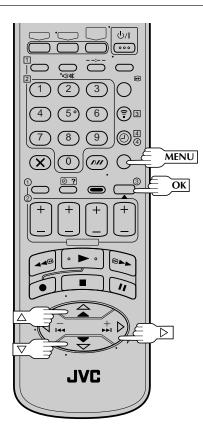
- For VIDEOWAY or some other brands of satellite receiver, you must press //// after having pressed the NUMBER keys.
- The **NUMBÉR** keys may not function with some satellite receivers.
- To return the remote to video recorder control, press VCR.

### IMPORTANT

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

# Minimizing Picture Degradation While Editing

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



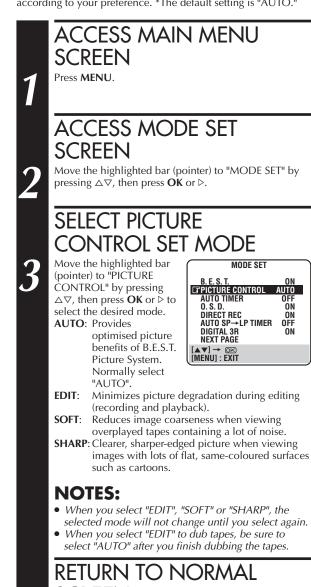
### Advantages Of S-VHS Video Recorders

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.

# **Picture Control**

This feature helps you to adjust the playback picture quality according to your preference. \*The default setting is "AUTO."



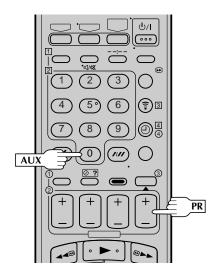
RETURN TO NORMAL SCREEN Press MENU.

#### **NOTES:**

- When "B.E.S.T." is "OFF", "PICTURE CONTROL" switches automatically from "AUTO" to "NORM".
- Select "EDIT" when you are dubbing tapes. Refer to page 48, 49 or 50.

## ADVANCED OPERATIONS (cont

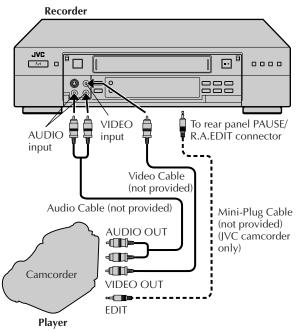
# **Edit From** A Camcorder



### **NOTES:**

- All necessary cables can be obtained from your dealer.
- You can also use another video recorder as the player instead of a camcorder.
- When you select "EDIT" to dub tapes in step 3, be sure to select "AUTO" (or "NORM" when "B.E.S.T." is set to "OFF") after you finish dubbing the tapes.

#### 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

- A 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 front panel S-VIDEO and 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 AUX and/or PR 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.

### SET EDIT MODE

See "Picture Control" on page 47.

# Engage its Play mode.

Λ

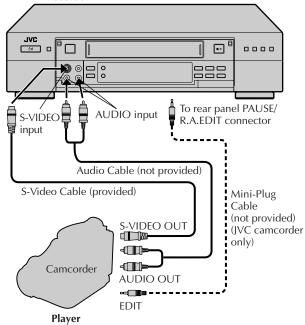
START CAMCORDER

# START RECORDER

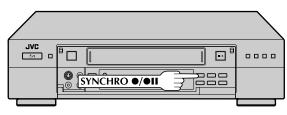
Engage its Record mode.

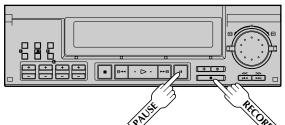
**B** If the camcorder has an S-VIDEO output connector...

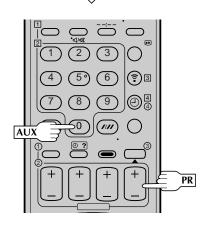
Recorder

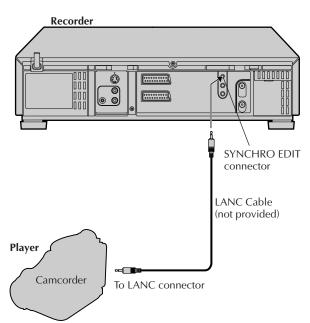


# Synchro Editing









The Synchro Editing function synchronizes the start of the playback and recording operations when starting an edit operation using a camcorder equipped with a LANC connector and your video recorder.

# MAKE CONNECTIONS

Connect your recorder to camcorder ( $\square$  pg. 48), and connect your recorder's SYNCHRO EDIT connector to the camcorder's LANC connector.

### SET RECORDER'S INPUT MODE

Press AUX and/or PR 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.

# SET EDIT MODE

See "Picture Control" on page 47.

# LOCATE START POINT

Start playback of the tape in the camcorder, and pause playback when you find the point where you want to start editing. Press and hold **PAUSE** and press **RECORD** on your recorder so that the recorder enters the Record-Pause Mode.

START SYNCHRO EDITING

Press SYNCHRO •/•II.

#### PAUSE SYNCHRO EDITING Press SYNCHRO •/•III again.

• Repeat steps 4 – 6 as necessary.

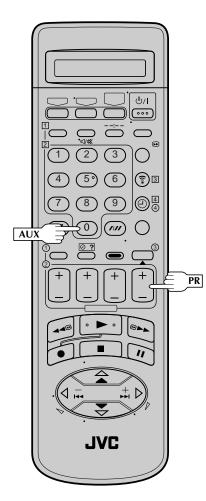
### **NOTES:**

3

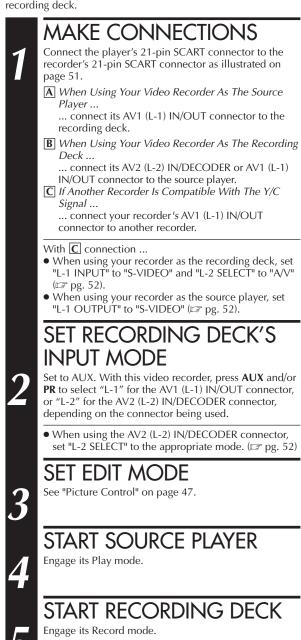
- The Synchro Edit function may not work with the initial part of a camcorder tape.
- The Synchro Edit function cannot be used when using the JLIP function. (Pressing SYNCHRO •/•II cancels the JLIP function.)
- The Synchro Editing function may not work properly with some type of camcorder.
- The Synchro Editing function enables the recorder to control a camcorder which has a LANC connector. It is not possible to control the recorder by a camcorder, even though the camcorder has a LANC conector.
- When you select EDIT to dub tapes in step 3, be sure to select AUTO (or NORM when B.E.S.T. is set to OFF) after you finish dubbing the tapes.

## ADVANCED OPERATIONS (cont.)

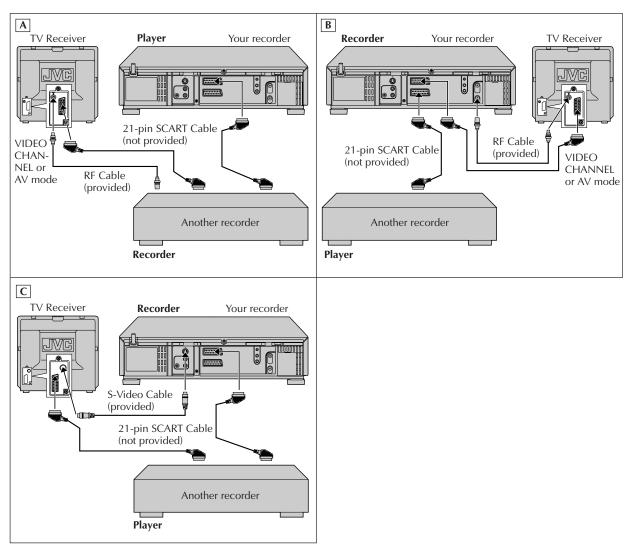
# Edit To Or From Another Video Recorder



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



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#### **NOTES:**

- 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 select "EDIT" to dub tapes in step 3, be sure to select "AUTO" (or "NORM" when "B.E.S.T." is set to "OFF") after you finish dubbing the tapes.
- When you use this recorder as the player for editing, be sure to set "O.S.D." to "OFF" before starting (27 pg. 59).
- 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 IN/S OUT and AUDIO IN/OUT connectors.
  - When Using Your Video Recorder As The Source Player ... ... connect its rear panel S OUT and AUDIO OUT connectors to the recording deck's S-Video and Audio input connectors. When Using Your Video Recorder As The Recording Deck ...

... connect its front panel S-VIDEO and AUDIO input connectors to the source player's S-Video and Audio output connectors. Then, set the recorder's input mode to "S-1".

# L-1 OUTPUT/INPUT Setting

The AV1 (L-1) IN/OUT connector accepts and delivers either a composite signal (regular video signal) or a Y/C signal (a signal in which the luminance and chrominance signals are separated). Set "L-1 OUTPUT" and "L-1 INPUT" to the appropriate mode depending on the type of unit connected to the rear panel AV1 (L-1) IN/OUT connector of this recorder.

	to access the Main Menu screen. move the highlight bar (pointer) to "OUTPUT/INPUT SET", then press <b>OK</b> or ▷.		
	move the highlight bar (pointer) to "L-1 OUTPUT" or "L-1 INPUT".		
4 For "L-1 OU		OUTPUT/INF	UT SET
Press OK or D	> to select "VIDEO" or "S-VIDEO".		
<b>a</b> -VIDEO	: If a connected device's input is compatible only with regular video signals, set to "VIDEO".	L-1 OUTPUT L-1 INPUT	VIDEO VIDEO
<b>b-</b> S-VIDEO	: If a connected device's input is compatible with Y/C signals, set to "S-VIDEO". This setting will let you take advantage of higher-quality S-VHS pictures. (For connection, be sure to use a 21-pin SCART cable that	L-2 SELECT L-2 INPUT	A/V VIDEO
	is compatible with the Y/C signal.)		
For "L-1 INP		[MENU] : EXIT	)
	> to select "VIDEO" or "S-VIDEO".		
<b>a</b> –VIDEO	: If a connected device's output is compatible only with regular video signals, set to "VIDEO".		
<b>b–</b> S-VIDEO	"S-VIDEO". This setting will let you take advantage of higher-quality S-VHS pictures. (For connection, be sure to use a 21-pin SCART cable that is compatible with the Y/C signal.)		
5 Press MENU	to return to normal screen.		

• If "L-1 OUTPUT" is set to "S-VIDEO", it is impossible to set "L-1 INPUT" to "S-VIDEO".

• If "L-2 SELECT" is set to "DECODER", it is impossible to set "L-1 INPUT" to "S-VIDEO".

# L-2 SELECT/INPUT Setting

The AV2 (L-2) IN/DECODER connector accepts either a composite signal (regular video signal) or a Y/C signal (a signal in which the luminance and chrominance signals are separated). Set "L-2 SELECT" to the appropriate mode depending on the type of unit connected to the rear panel AV2 (L-2) IN/DECODER connector of this recorder. Set "L-2 INPUT" to the appropriate mode depending on the output signals of the connected unit.

1 Press **MENU** to access the Main Menu screen.

2 Press  $\Delta \nabla$  to move the highlight bar (pointer) to "OUTPUT/INPUT SET", then press **OK** or  $\triangleright$ .

 $\boxed{3}$  Press  $\Delta \nabla$  to move the highlight bar (pointer) to "L-2 SELECT" or "L-2 INPUT".

#### 4 For "L-2 SELECT"

a–A/V

Press **OK** or  $\triangleright$  to select "A/V", "DECODER" or "SAT".

: To use this recorder as the recording deck with the player connected to the AV2 (L-2) IN/DECODER connector, or to use the satellite receiver connected to the AV2 (L-2) IN/DECODER connector.

**b**-DECODER : To use a decoder connected to the AV2 (L-2) IN/DECODER connector. **c**-SAT : To view a satellite programme with the TV set while the recorder is turned off. (III) pg. 42)

#### For "L-2 INPUT"

Press **OK** or ▷ to select "VIDEO" or "S-VIDEO".

**a–**VIDEO : If a connected device's output is compatible only with regular video signals, set to "VIDEO".

- **b**–S-VIDEO : If a connected device's output is compatible with Y/C signals, set to "S-VIDEO". This setting will let you take advantage of higher-quality S-VHS pictures. (For connection, be sure to use a 21-pin SCART cable that is compatible with the Y/C signal.)
- 5 Press **MENU** to return to normal screen.

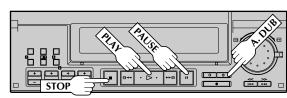
• If you have a satellite receiver or a decoder connected to the AV2 (L-2) IN/DECODER connector, be sure to set "L-2 SELECT" back to appropriate mode after editing.

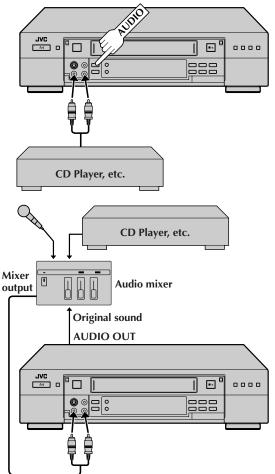
• If you're not connecting a satellite receiver or a decoder to the AV2 (L-2) IN/DECODER connector, leave "L-2 SELECT" set to "A/V".

- The default setting is "A/V"; if the recorder's memory backup has expired due to a power cut or because the AC was removed from the recorder, "A/V" will be automatically selected when the power is restored to the recorder. If you are using a satellite receiver or a decoder, be sure to set "L-2 SELECT" back to appropriate mode.
- When "L-2 SELECT" is set to "SAT", "SAT" appears on screen or display panel instead of "L-2" or "L2".
- If "L-2 SELECT" is set to "DECODER", it is impossible to set "L-2 INPUT" to "S-VIDEO".
- If "L-1 OUTPUT" is set to "S-VIDEO", it is impossible to set "L-2 SELECT" to "DECODER".

OUTPUT/INP	UT SET
L-1 OUTPUT	VIDEO
L-1 INPUT	VIDEO
L-2 SELECT	A/V
L-2 INPUT	Video
[▲▼] → ©K [MENU] : EXIT	

# **Audio Dubbing**





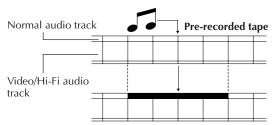
### **NOTES:**

- When monitoring the sound during Audio Dubbing, the normal soundtrack is automatically selected. If you wish to hear the mixed sound (Hi-Fi + Normal soundtracks), press AUDIO to select '▷ + ☑ (L+R) + NORM" (☞ pg. 35).
- 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 (L-1) IN/ OUT or AV2 (L-2) 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** to select the soundtrack you wish to hear (🖙 pg. 35).

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

## ATTENTION:

Audio dubbing is not possible with a cassette recorded in EP mode.



Audio-dubbed tape

# 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 AUX and/or **PR** 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.

- It is possible to take the original sound recorded on the tape in your recorder and mix it with other sounds from a microphone, CD player etc. To perform this audio dubbing with audio mixing, connect as in the diagram on the left.
- 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 to select " $\mathbb{P} + \mathbb{C}$  (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

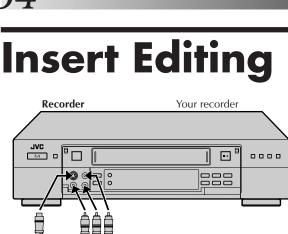
Press **STOP** to stop the tape in your recorder, and engage the audio component's Stop mode.

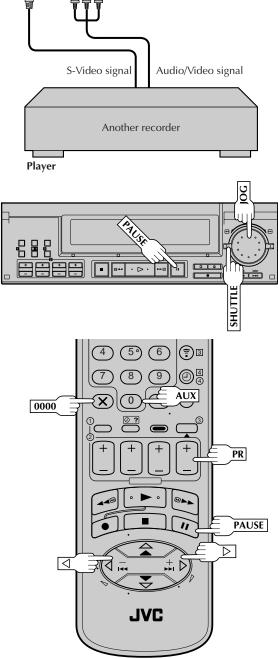
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# ADVANCED OPERATIONS (cont.)

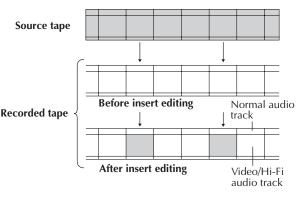




Insert editing replaces part of the recorded scene with new material. Both the picture and Hi-Fi audio soundtrack are replaced with new ones, while the normal audio soundtrack remains unchanged. If you wish to change the normal audio track as well, use the audio dubbing function simultaneously. Use your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

#### **ATTENTION:**

Insert editing is not possible with a cassette recorded in EP mode.



# MAKE CONNECTIONS

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

# SET INPUT MODE

Press **AUX** and/or **PR** 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

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 **SHUTTLE** ring or the **JOG** dial or pressing ⊲▷ and **PAUSE**.

# RESET THE COUNTER

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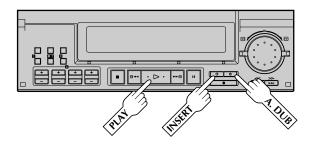
5

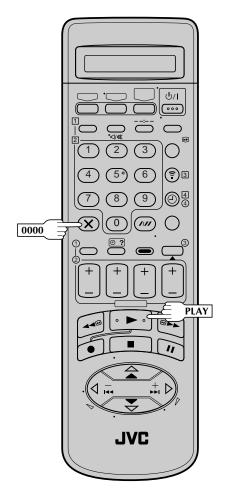
Press **0000** to change the counter display to "0:00:00".

# LOCATE START POINT

Determine the edit-in point (the beginning of the segment to be replaced) using the **SHUTTLE** ring or the **JOG** dial or pressing ⊲▷ and **PAUSE**.

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





# ENGAGE INSERT EDITING

#### Press INSERT.

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Ū.

- 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

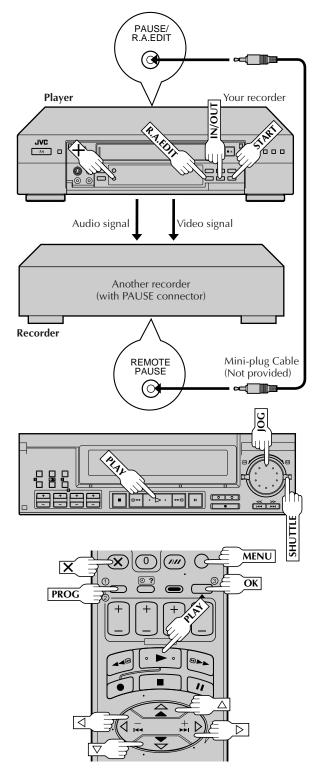
If you want to replace the picture, Hi-Fi audio soundtrack and normal audio soundtrack all at the same time... ... In step 6 above, after you press INSERT, press A. DUB also. ("O" and "O" blink and "I" lights up on the front display panel.)

### **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 (L-1) IN/ OUT or AV2 (L-2) IN/DECODER connector. When using these connectors, make sure to select the correct input mode in step 2.

## ADVANCED OPERATIONS (cont.

# **Random As**semble 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. (17 pg. 57)

#### MAKE CONNECTIO )NS Connect your recorder's AV1 (L-1) IN/OUT or S OUT/ AUDIO OUT connectors to the VIDEO IN and AUDIO IN 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. Use a source cassette that is recorded in SP or EP mode. SET EDIT MODE

See "Picture Control" on page 47.

### START SOURCE PLAYBACK Press PLAY.

#### ACCESS R.A.EDIT SCREEN Press R.A.EDIT.

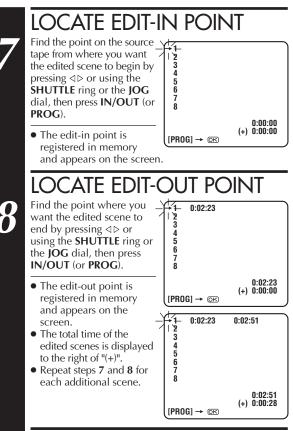
OR

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Press MENU to access MAIN MENU screen and 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 7.



# PREPARE RECORDING DECK

Engage its Record-Standby mode.

### START R.A.EDIT

Press START (or OK).

- 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.
- While your recorder is searching for each scene, you can hear high-speed sound (which is not TimeScan Audio).
- 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 7 – 8. 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 7 and 8 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 7 or 8, you can cancel registered in and out points by pressing  $\times$ . 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 22.

# 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.

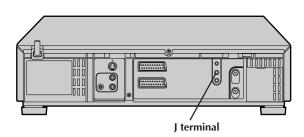
BRAND LIST						
AKAI	JVC	SANYO	THOMSON			
BLAUPUNKT	MITSUBISHI	SELECO	TELEFUNKEN			
FERGUSON	NEC	REX	SABA			
GRUNDIG	PANASONIC	SHARP	NORDMENDE			
HITACHI	PHILIPS	SONY	TOSHIBA			

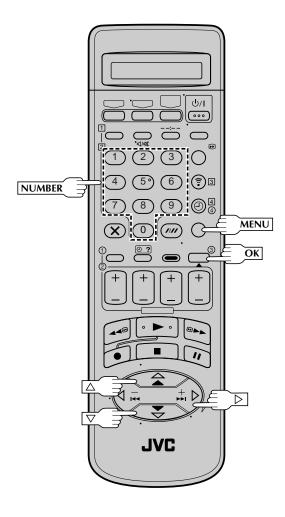
#### NOTE:

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

PROGRAM FULL 0:00:00 (+) 0:00:00 (MENU] : EXIT

# Information On J Terminal





# ADVANCED OPERATIONS (cont.)

### J Terminal (JLIP(Joint Level Interface Protocol) Connector)

The J Terminal is used to connect the recorder to a personal computer or similar device to allow computerized control of the recorder during editing and certain other operations.

#### **Examples:**

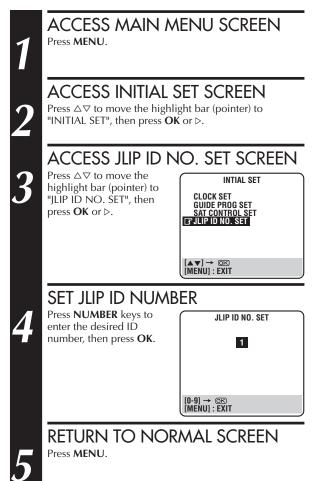
With the optional JLIP VIDEO CAPTURE BOX GV-CB3E:

- Enables Random Assemble Editing of up to 99 segments, using this recorder as the playback unit.
- Allows you to capture still images from the recorder into a personal computer.

For further details consult your nearest JVC dealer.

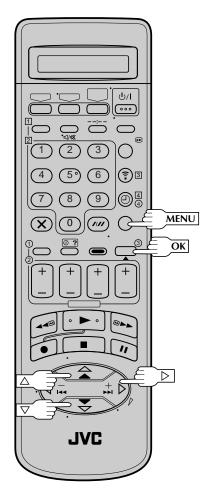
#### JLIP ID Number

Your recorder has its own JLIP ID number. This ID number must be unique when your recorder is connected to another device via its J terminal. The ID Number is preset to "1" at the factory. You can change this number to any number between "1" and "99". If it is necessary to change the JLIP ID number perform the following steps.



# Other Functions

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



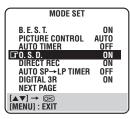
# **On-Screen Display**

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



# ENABLE/DISABLE ON-SCREEN DISPLAY

The default setting is "ON", so if you want onscreen displays, leave the setting as it is and go to step **4**. If you don't want the displays to appear, press  $\Delta \nabla$  to move the highlight bar (pointer) to "O.S.D." and press **OK** or  $\triangleright$  to set "O.S.D." to "OF.".



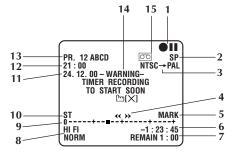
#### RETURN TO NORMAL Press MENU.

### **F**

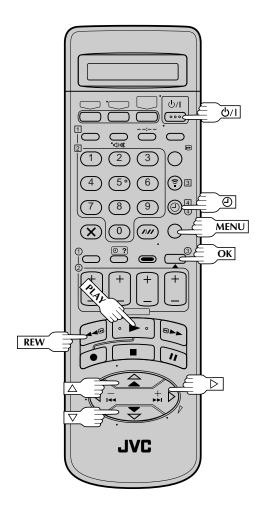
### NOTES:

- 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 sometimes be disturbed depending on the type of tape being used.

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



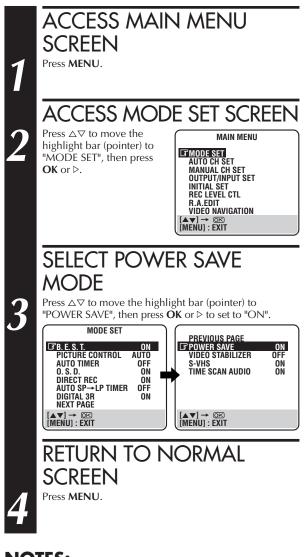
- 1- Operation mode indicators
- 2- Tape speed SP/LP/EP
- 3- NTSC playback display (E pg. 62)
- 4– Tape direction
- 5- Index MARK/ERASE indicator (III) pg. 36)
- 6- Counter display
- 7– Tape remaining time indicator (🖙 pg. 17)
- 8- Audio mode display (🖙 pg. 35)
- 9– Tape position indicator (🖙 pg. 14)
- **10** Type of Broadcast (E pg. 35) **11**– Current day/month/year
- Current day/month/
   Clock display
- 12– Clock display
- **13** Channel position number and station name/Aux. indicator (L-1, L-2, SAT\*, F-1 or S-1)
  - \* When "L-2 SELECT" is set to "SAT" (CF pg. 52), "SAT" appears instead of "L-2".
- 14- Timer warning display (🖙 pg. 19, 21)
- 15- Cassette loaded mark



### ADVANCED OPERATIONS (cont.)

### **Power Save Mode**

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

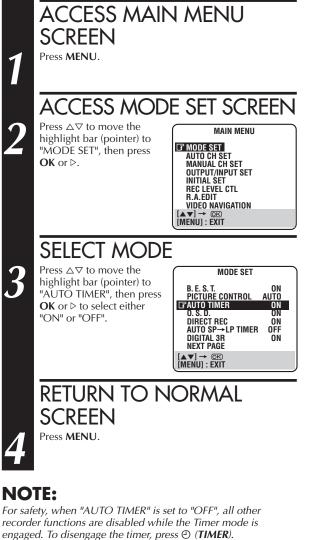


#### NOTES:

- During Power Save, the display panel will be turned off.
- The Just Clock function (🖙 pg. 73) 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. 42).
  - ... "L-2 SELECT" is set to "DECODER" or "SAT" (III pg. 52).

# **Auto Timer**

When "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.



# **Next Function Memory**

The Next Function Memory "tells" the recorder what to do after rewinding. Before continuing, make sure the recorder is in the Stop mode.

- a- For Automatic Start Of Playback After Tape Rewind . . .
- ... press REW, then press PLAY within 2 seconds.
- **b** For Automatic Power Off After Tape Rewind . . .
- ... press **REW**, then press  $\bigcirc/1$  within 2 seconds.
- c- For Automatic Timer Standby After Tape Rewind . . . ... press **REW**, then press **(TIMER**) within 2 seconds.

# Auto SP->LP Timer

SP mode

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 . . .

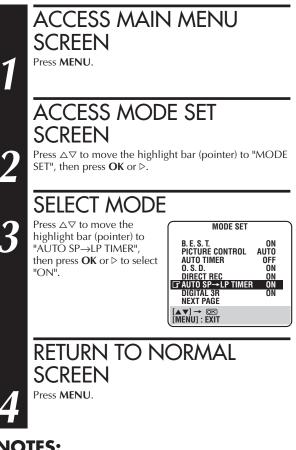
Recording a programme of 210 minutes in length onto a 180minute tape

Approximately 150 minutes Approximately 60 minutes

LP mode

Total 210 minutes

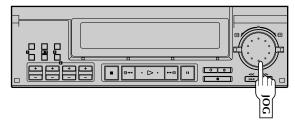
Make sure you set "AUTO SP→LP TIMER" to "ON" at the Mode Set screen before the timer-recording starts.

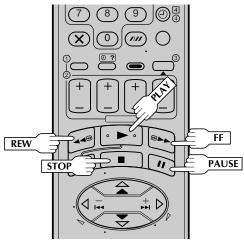


### NOTES:

- The Auto SP→LP Timer feature is not available during ITR (Instant Timer Recording), and the feature will not work properly with any tapes longer than E-180 or with some tapes of shorter lengths.
- 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 $\rightarrow$ 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 short non-recorded section at the end of the tape.
- There may be some picture noise and sound disturbance at the point on the tape where the recorder switches from SP to LP mode.
- If you perform timer recording with both PDC and the Auto  $SP \rightarrow LP$  Timer activated, and the programme goes beyond its originally scheduled length, there may be times when the programme cannot be recorded in its entirety.

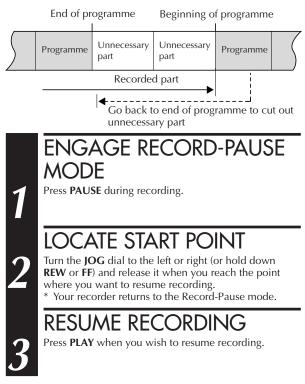
# 62





# Retake

You can cut out unnecessary parts of a TV programme while you're recording it.



### **NOTES:**

- Retake function does not work during Direct Rec (C pg. 11).
- Noise may appear when Retake function is used at the part that is recorded in EP mode.

## ADVANCED OPERATIONS (cont.)

# **Repeat Playback**

Your video recorder can automatically play back the whole tape 100 times repeatedly.



START PLAYBACK Press PLAY.

# ACTIVATE REPEAT PLAYBACK

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

- The Play indicator (>>) on the display panel blinks slowly.
- The tape plays 100 times automatically, and then stops.

STOP PLAYBACK

Press STOP at any time to stop playback.

## NOTES:

- Pressing PLAY, REW, FF or PAUSE also stops Repeat playback.
- Repeat playback is not possible with a cassette recorded in EP mode.

# NTSC Playback

Your video recorder is equipped with NTSC circuitry that can play back NTSC tapes.

# LOAD A CASSETTE

Insert a cassette recorded in NTSC.

# START PLAYBACK

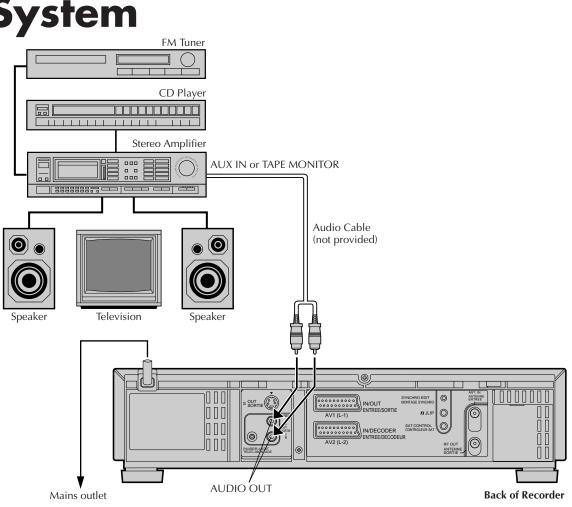
#### Press PLAY.

- "NTSC—>PAL" appears on the screen for about 5 seconds.
- 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.

## SYSTEM CONNECTIONS

# Connection To A Stereo System

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 you can receive NICAM TV broadcasts 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.

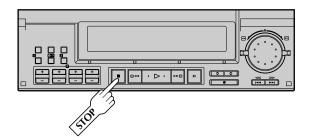
### **CAUTIONS:**

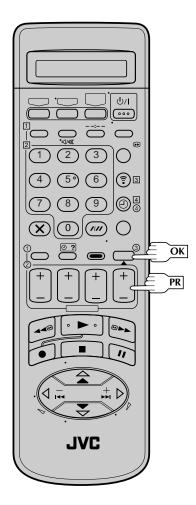
- This recorder has a dynamic range of more than 80 dB with regards to its Hi-Fi audio capability. It is recommended that you check the maximum level if you are going to listen to the Hi-Fi audio signals through a stereo amplifier. A sudden surge in the input level to the speakers may damage them.
- 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.

# 64

# 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 (I pg. 8).
- 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), you do not need the video channel so you have to set the video channel to off. — Go to "With AV or S-VIDEO Connection" below.
- 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 — Go to "With RF Connection" on page 65.

### With AV or S-VIDEO Connection

Before performing the following procedure, make sure that:

- the mains power cord is plugged into the mains outlet.the video recorder is turned off and there is no cassette inserted in the recorder.
- batteries have been installed in the remote control.

### ACCESS VIDEO CHANNEL SET MODE

Press and hold down **STOP** on the recorder until the display panel shows the following.

\_ [] [] { 52

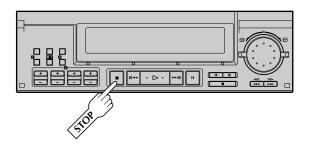
### SET VIDEO CHANNEL

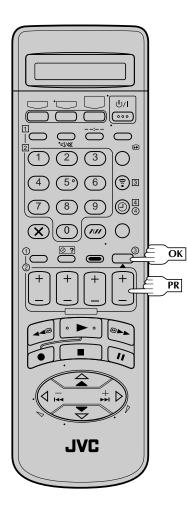
Press **PR** – until the display panel shows "\_OUT- -".

Now the video channel is set to off.

EXIT VIDEO CHANNEL SET MODE Press OK.

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.





#### **TEST SIGNAL**



The channel on which the screen on the left appears clearly in step **2** is your Video Channel.

# With **RF** Connection

# Before performing the following procedure, make sure that:

- the mains power cord is plugged into the mains outlet.
- the video recorder is turned off and there is no cassette inserted in the recorder.
- the connected TV is turned on.
- batteries have been installed in the remote control.

### ACCESS VIDEO CHANNEL SET MODE

Press and hold down **STOP** on the recorder until the display panel shows the following.



# SET VIDEO CHANNEI

Press **PR+** or – to set the video recorder to a vacant channel between 22 and 69 which is not occupied by any local station in your area. <u>Refer to list on page 72</u> for details of broadcast stations in your area.

(Ex.) If channel 36 is available in your area



Then set your TV to UHF channel 36. (Refer to the instructions supplied with your TV set for how to do this.)

- If the two vertical white bars appear clearly on the screen as shown in the illustration at bottom left, go to step 3.
- If the two vertical white bars do not appear clearly, re-set the video recorder to another vacant channel and try again.

#### IMPORTANT

- If you set the video recorder to a channel which is occupied by a local station or has neighbouring channels that are occupied by local stations, the picture reception quality will be affected and some interference noise will appear on the TV screen. Be sure to select a vacant channel which has no broadcast on neighbouring channels.
- If you cannot obtain the two vertical white bars clearly with any channel between 22 and 69, consult your JVC dealer.

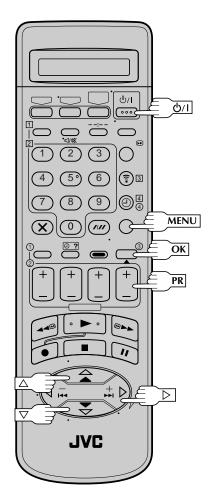
### EXIT VIDEO CHANNEL SET MODE

Press OK.

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

# **Tuner Set**

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



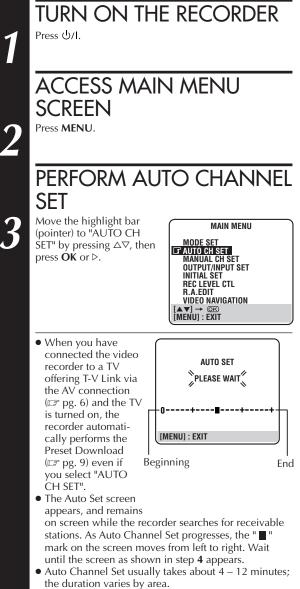
#### IMPORTANT

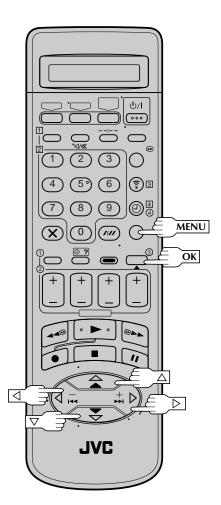
Perform the following steps only if -

- Auto Channel Set has not been set correctly by Auto Set
- Up function ( $\square$  pg. 8) or Preset Download ( $\square$  pg. 9). — you have moved to a different area or if a new station
  - starts broadcasting in your area.

Your recorder needs to memorise all necessary stations in preset 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 **PR** buttons without going through any vacant channel.

# Auto Channel Set





### VIEW CONFIRMATION SCREEN

After "SCAN COMPLETED" is displayed on the screen for about 5 seconds, a Confirmation screen looking like the one on the right appears. The stations your recorder located appear on a Confirmation screen — preset positions (PR), channels (CH) and

4	(PR	CH	ID-//	PR	CH			
	01	26	BBC1	08				
1	02	33	BBC2	09	-			
	03	23	ITV	10	-			
	04	30	CH4	11	-			
	05	37	CH5	12	-			
	06			13	-			
	07			14	-			
		<b>* * *</b>						
	$\rightarrow$		: EDIT					
	$\rightarrow$ [X] : DELETE							
	[MI	ENU]	: EXIT					
	<u> </u>							

station names (ID –  $\square$  pg. 71). The blueback screen and the programme currently being broadcast by the station which is blinking appear alternately for 8 seconds each.

To view the next page, use the  $\triangle \nabla \triangleleft \triangleright$  button on the remote control.

• The Guide Program numbers will also be set automatically during Auto channel Set.

# RETURN TO NORMAL SCREEN

#### Press MENU.

5

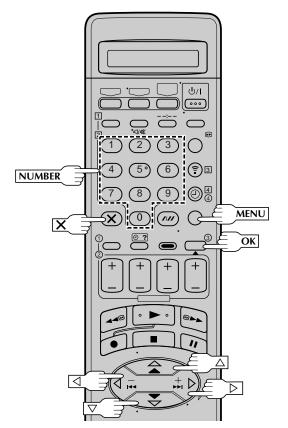
- Using the Confirmation screen, you can skip or add preset positions, enter station names and perform other operations. Refer to pages 68 – 72 for the procedures.
- Depending on reception conditions, the stations may, on occasion, not be stored in order, and the station names may not be stored correctly.

#### 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 the VIDEO Plus+ system, the recorder will record a TV programme of a different station. When programming the timer using the VIDEO Plus+ system, be sure to check that the preset position corresponding to the broadcasting station you wish to record has been selected (ICF pg. 18, "VIDEO Plus+® 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 which have an unacceptable picture IP "Delete A Channel" on page 69.

### **NOTES:**

- Fine tuning is performed automatically during Auto Channel Set. If you wish to perform it manually, refer to page 69.
- If, for any reason, you perform Auto Channel Set when the aerial cable is not connected properly, "SCAN COMPLETED -NO SIGNAL-" appears on the screen in step 4. When this happens, make sure of the aerial connection and press OK; Auto Channel Set will take place again.



## **Storing Channels Manually**

To store channels that were not stored during Auto Set Up (IF pg. 8), Preset Download (IF pg. 9) or Auto Channel Set (IF pg. 66).

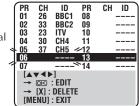
#### ACCESS MAIN MENU

Press MENU.

#### ACCESS CONFIRMATION SCREEN

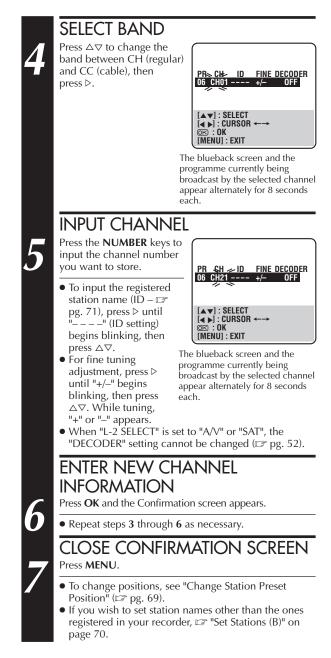
Press  $\Delta \nabla$  to move the highlight bar (pointer) to "MANUAL CH SET", then press **OK** or  $\triangleright$ . The Confirmation screen appears.

#### SELECT POSITION



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

# SUBSIDIARY SETTINGS (cont.)



#### ATTENTION

Guide Program numbers are not set when channels are stored manually. If an attempt is made at timer programming with the VIDEO Plus+ system in this state, the "GUIDE PROG SET" screen appears; set the Guide Program numbers on this screen. IF "ATTENTION – Regarding Guide Program Number Set" on page 19. Or perform "Guide Program Number Set" (IF pg. 74).

# **Delete A Channel**

Perform steps 1 and 2 of "Storing Channels Manually" on page 68 to access the Confirmation screen before continuing.

#### SELECT ITEM

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

### DELETE CHANNEL

Press X.

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

CLOSE CONFIRMATION SCREEN Press MENU.

## When Receiving A Scrambled Broadcast

SELECT DECODER MODE Set "L-2 SELECT" to "DECODER" (I pg. 52).

#### ACCESS CONFIRMATION SCREEN

Perform steps 1 and 2 of "Storing Channel Manually" on page 68.

#### SELECT POSITION

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.

• Repeat steps 3 through 5 as necessary.

CLOSE CONFIRMATION SCREEN Press MENU.

### NOTE:

Scrambled programmes are not currently broadcast in the U.K.

## **Change Station Preset** Position

Perform steps 1 and 2 of "Storing Channels Manually" on page 68 to access the Confirmation screen before continuing.

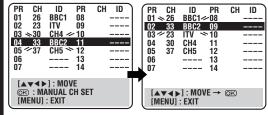
### SELECT ITEM

Press  $\Delta \nabla \triangleleft \triangleright$  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  $\Delta \nabla \triangleleft \triangleright$  to move the station to the new preset 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.

### **Fine-Tuning Channels Already Stored**

Perform steps 1 and 2 of "Storing Channels Manually" on page 68 to access the Confirmation screen before continuing.

### SELECT CHANNEL TO FINE-TUNE



Press  $\triangle \nabla \triangleleft \triangleright$  until the channel you want to tune begins

### ACCESS MANUAL CHANNEL SET SCREEN



3

Press OK twice. The Manual Channel Set screen appears.

### PERFORM TUNING

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

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

CLOSE CONFIRMATION SCREEN Press MENU.



# Set Stations (A)

Set station names that are registered in your recorder.

Perform steps 1 and 2 of "Storing Channels Manually" on page 68 to access the Confirmation screen before continuing.

SELECT ITEM Press  $\Delta \nabla \triangleleft \triangleright$  until the item you want begins blinking.

ACCESS MANUAL CHANNEL SET SCREEN

Press OK twice.

## SELECT NEW STATION

Press  $\triangleright$  until the station name (ID) begins blinking, then press  $\triangle \nabla$  until the new station's name (ID) you want to store begins blinking. Registered station names



Registered station names ( $\square P$  pg. 71) appear as you press  $\triangle \nabla$ .



# SWITCH STATIONS

Press OK.

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

## CLOSE CONFIRMATION SCREEN

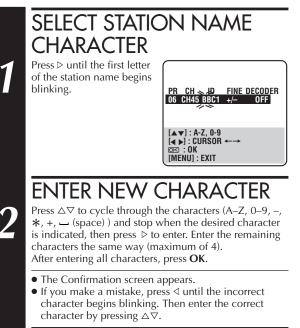
Press MENU.

## SUBSIDIARY SETTINGS (cont.)

# 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 68 to access the Confirmation screen and then perform steps **1** and **2** of "Set Stations (A)" on the left before continuing.



### CLOSE CONFIRMATION SCREEN Press MENU.

#### NOTE:

The characters available for the station name (ID) are A−Z, 0−9, −, ★, +, → (space) (maximum of 4).

# **TV Station And ID List**

STATION NAME	ID*	STATION NAME	ID*
Anglia T∨	ANGL	SAT	SAT
ARD	ARD	SAT 1	SAT1
ARTE	ARTE	Scottish TV	SCOT
BBC Group	BBC	SC4	SC4
BBC1	BBC1	SDR	SDR
BBC2	BBC2	SDR1	SDR1
Berlin 1	BLN1	SFB1	SFB1
Berlin 2	BLN2	SFB3	SFB3
Border TV	BORD	SKY	SKY
Bayern1	BR1	Sky One	SKY1
Bayern3	BR3	Sky Net	SKYN
BRT1	BRT1	Sport	SPRT
BRT2	BRT2	SR 1	SR1
Children Ch	CHLD	Super RTL	SRTL
Canal +	CH+	STV Test	STVT
CNN	CNN	STV 1	STV1
Channel TV	CHNL	STV 2	STV2
Central TV	CNTR	Suedwest3	SWR
Channel 4	CH 4	SWF 1	SWF1
Channel 5	CH 5	Schweiz4	SWZ4
DRS	DRS	TYNE TEES	TEES
DR TV	DRTV	Text	TEXT
DSF	DSF	TF1	TF1
Euronews	EURN	TNT int	TNT
Euronews	EURO	TRT int	TRT
Eurosports	EURS	TSI	TSI
France1	FR1	TSR	TSR
France2	FR2	TSW	TSW
France3	FR3	TVE	TVE
Granada TV	GRNA	TV Polonia	TVPA
Grampian TV	GRMP	TVP 1	TVP1
Hessen1	HR1	TVP 2	TVP2
Hessen3	HR3	TVS	TVS
HRT	HRT	TV2	TV2
HTV	HTV	TV5	TV5
ITV Network	ITV	Tele Zurich	TZUR
Kabelkanal	KABL	Ulster TV	ULST
London	LNDN	Veronica	VERN
MDR	MDR	VIVA	VIVA
MTV	MTV	VIVA2	VIV2
Nord3	N3	VOX	VOX
NDR1	NDR1	VTM	VTM
NDR3	NDR3	VT4	VT4
NED1	NED1	West1	WDR1
NED2	NED2	West3	WDR3
NED3 Network 2	NED3	YLE 1 YLE 2	YLE1
	NET2		YLE2 YORK
NRK N-TV	NRK N-TV	Yorkshire TV ZDF	ZDF
Offener Kanal	OKAN	Zurich 1	ZUR1
ORF1	ORF1	3SAT	3SAT
ORF2	ORF2	35/41	35/11
ORF3	ORF3	* The "ID" abbreviation is what i	s shown on-screen in lieu of the
OWL 3	OWL3	station name. The "ID" abbrevi	
Premiere	PRMI	tion screen and is displayed or	
PR07	PR07	recorder is tuned to a different	station
RAI1	RAI1	recorder is taried to a different	Station.
RAI2	RAI2		
RAI3	RAI3		
RB1	RB1		
RB3	RB3		
Rikisutvarpid-S	RKPS		
RTBF 1	RTB1		
RTBF 2	RTB2		
RTE 1	RTE1		
RTL	RTL		
RTL 2	RTL2		
RTP	RTP		

# **TV Station Channel Number Guide** For customers in the U.K.

Only the main stations are listed. There are in addition many relay stations, and full lists are available from the BBC and ITV.

London & South-East	BBC1	BBC2	ITV	CH4	CH5
Bluebell Hill	40	46	43	65	
Crystal Palace		33	23	30	37
Dover		56	23 66	53	57
Heathfield		50	64	67	
Oxford		63	60	53	49
	57	05	00	55	49
South-West					
Beacon Hill	57	63	60	53	
Caradon Hill	22	28	25	32	
Huntshaw Cross		62	59	65	67
Redruth		44	41	47	37
Stockland Hill		26	23	29	
Channel Islands	55	20	23	25	
Fremont Point	51	44	41	47	
				17	
South					
Hannington	39	45	42	66	35
Midhurst	61	55	58	68	
Rowridge		24	27	21	_
Wast					
West	5.0	6.4	6.1	5.4	27
Mendip	58	64	61	54	37
East					
Sandy Heath	31	27	24	21	39
Sudbury		44	41	47	35
Tacolneston		55	59	65	52
Midlands					
Ridge Hill	22	28	25	32	35
Sutton Coldfield	46	40	43	50	37
The Wrekin	26	33	23	29	35
Waltham	58	64	61	54	35
North					
Belmont	22	28	25	32	56
Emley Moor		51	47	41	37
		0.	• *	••	5.

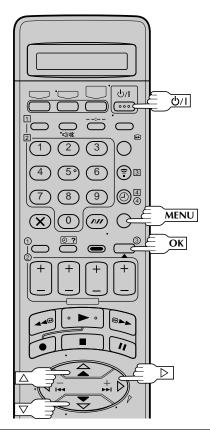
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B North-West	BC1	BBC2	ITV	CH4	CH5
Caldbeck	30	34	28	32	56
Winter Hill		62	20 59	65	48
Winter Finit	55	02	55	05	10
North-East					
Bilsdale West Moor	33	26	29	23	35
Chatton		45	49	42	
Pontop Pike	58	64	61	54	68
Scotland					
Angus	57	63	60	53	
Black Hill		46	43	50	37
Sandale			_	_	_
Caldbeck		34	28	32	56
Creigkelly		27	24	21	48
Darvel		26	23	29	35
Durris	22	28	25	32	67
Eitshal	33	26	23	29	_
Keelylang Hill	40	46	43	50	_
Knock More		26	23	29	_
Rosemarkie	39	45	49	42	67
Rumster Forest	31	27	24	21	
Selkirk	55	62	59	65	52
Wales					
Blaenplwyf	31	27	24	21	56
Carmel		63	60	53	
Llanddona	57	63	60	53	
Moel-y-Parc		45	49	42	
Presely		40	43	50	37
Wenvoe	44	51	41	47	_
Northern Ireland					
Brougher Mountain	22	28	25	32	
Divis		27	24	21	37
Limavady		62	59	65	_

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 "ON"). Press OK until the Just Clock setting begins blinking, then press  $\Delta \nabla$ to change the setting.

IMPORTANT: If you turn the Just Clock function off, the accuracy of your recorder's built-in clock may be impaired, which could adversely affect timer recording.

### NOTES:

- 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. (CT pg. 42)
  - "L-2 SELECT" is set to "SAT". (🖙 pg. 52)
- If Just Clock is set to "ON", the recorder's clock is automatically adjusted at the start/end of Summer Time.
- Just Clock may not function properly in poor reception conditions.

#### IMPORTANT

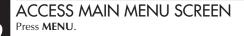
If you performed Auto Set Up (IF pg. 8), Preset Download (r pg. 9) or Auto Channel Set (r pg. 66), without ever having set the clock previously, the recorder's built-in clock is also set automatically.

Perform the following steps only if -

- Auto Clock Set has not been performed correctly by Auto Set Up, Preset Download or Auto Channel Set. or
- the recorder's memory backup has expired. or
- you want to change Just Clock setting (17 "Just Clock" in the left column).

#### TURN THE RECORDER ON



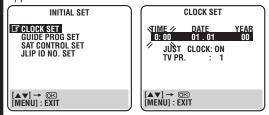


#### ACCESS INITIAL SET SCREEN

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  $\Delta \nabla$  to change the date by 15 days.

#### SET JUST CLOCK



5

 $\Lambda$ 

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

- For the Just clock function, I "Just Clock" on the left.
  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 PRESET

The recorder is preset to receive clock setting and adjustment data from preset position 1. Press  $\Delta \nabla$  to set the preset position to the number representing the station transmitting clock setting data (BBC1, BBC2, etc.), then press OK or  $\triangleright$ .







# VIDEO Plus+® System Setup

### IMPORTANT

Normally, Auto Set Up (27 pg. 8), Preset Download (27 pg. 9) or Auto Channel Set (27 pg. 66) sets the Guide Program Numbers automatically. You need to set the Guide Program Numbers manually only in the following cases.

- When timer-programming with the VIDEO Plus+ system, the preset position, where the station you wish to record is received on your recorder, is not selected or when you add a channel after Auto Set Up or Auto Channel Set has taken place.
   Set the Guide Program Number for that station manually.
- When you wish to timer-record a satellite programme with the VIDEO Plus+ system.
- Set the Guide Program Numbers for all satellite broadcasts received on your satellite receiver.

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

# **Guide Program Number Set**

# ACCESS MAIN MENU SCREEN

Press MENU.

# ACCESS INITIAL SET SCREEN

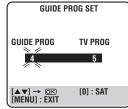
Press  $\triangle \nabla$  to move the highlight bar (pointer) to "INITIAL SET", then press **OK** or  $\triangleright$ .

# ACCESS GUIDE PROG SET SCREEN

Press  $\Delta \nabla$  to move the highlight bar (pointer) to "GUIDE PROG SET", then press **OK** or  $\triangleright$ .

# ENTER GUIDE PROG NUMBER

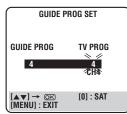
Press  $\triangle \nabla$  to enter the Guide Program number for the desired station as shown in the TV listings. Then press **OK** or  $\triangleright$ .



(Ex.) When inputting the Guide Program number 4 for CH4.

# ENTER RECEIVING PRESET POSITION NUMBER

Press the **NUMBER** key "0" to select "TV PROG" or "SAT". Then press △⊽ to input the number of the preset position on which the Guide Program number's broadcast is received by the recorder or the satellite receiver. Then press **OK** or ▷.



- (Ex.) If CH4 is received on preset position 4.
- To timer-record a satellite programme with the VIDEO Plus+ system, you need to install the provided Satellite Controller and perform the procedure described in "Satellite Receiver Control Setting" (IIIF pg. 12).
- Repeat steps 4 and 5 as necessary.

RETURN TO NORMAL SCREEN Press MENU.

# **Guide Program Number**

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

# Questions And Answers

#### **PLAYBACK**

#### Q. What happens if the end of the tape is reached during playback or search? **A.** The tape is automatically rewound to the beginning. . . . . . . . . . . . . . . . . . Q. Can the video recorder indefinitely remain in the still mode? A. No. It stops automatically after 5 minutes to protect the heads. Q. When returning from multi-speed search to normal playback, the picture is disturbed. Should I be concerned about this? A. No, it is normal. Q. Other than preventing further recording, what effect does removing the Record Safety tab have? **A.** It disables marking of index codes. . . . . . . . . . . . . . . Q. Sometimes, during Index Search, the video recorder can't find the programme I want to see. Why not? **A.** There may be index codes too close together. . . . . . . . . . . . . . . . . RECORDING Q. When I pause and then resume a recording, the end of the recording before the pause is overlapped by the beginning of the continuation of recording. Why does this happen? **A.** This is normal. It reduces distortion at the pause and resume points. Q. Can the video recorder indefinitely remain in the **Record-Pause mode? A.** No. The video recorder shuts off automatically after 5 minutes to protect the heads. Q. What happens if the tape runs out during recording? A. The video recorder automatically rewinds it to the beginning or, if Timer Recording, the cassette is ejected.

#### TIMER RECORDING

- **Q**. "O" and "O" remain lit on the display panel. Is there a problem?
- A. No. This is a normal condition for a timer recording 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 program or tape you're viewing can be heard.

#### **ATTENTION**

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

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# **Troubleshooting**

Before requesting service for a problem, use this chart to see if you can correct 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		
<b>SYMPTOM</b>	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>"⊕" is displayed on the display panel with Auto Timer set to "OFF".</li> </ul>	Press the ② button to turn the "④" indicator off.
3. The remote control won't function.	• The batteries are discharged.	Replace the dead batteries with new ones.
TAPE TRANSPORT		
<b>SYMPTOM</b>	POSSIBLE CAUSE	CORRECTIVE ACTION
<ol> <li>The tape does not run during recording.</li> </ol>	• """ 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		
<b>SYMPTOM</b>	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 connection</li> <li> the TV receiver's channel selector is not set to the VIDEO channel.</li> <li> the recorder's VIDEO channel has not been correctly set.</li> <li>If you're using the AV or S-VIDEO connection, the TV receiver is not set to the AV mode.</li> </ul>	If you are using the RF connection set the TV receiver to the VIDEO channel. (IF pg. 8) Perform "Video Channel Set" (IF pg. 64) If you are using the AV or S-VIDEO connection, set the TV to its AV mode.
2. Noise appears during visual search.	• This is normal during visual search other than TimeScan.	
<ol> <li>Noise appears during normal playback.</li> </ol>	<ul> <li>The automatic tracking mode is engaged.</li> </ul>	Try manual tracking (🖙 pg. 32).
<ol> <li>The playback picture is blurred or interrupted while TV broadcasts are clear or "USE CLEANING CASSETTE" message appears on the screen.</li> </ol>	• The video heads may be dirty.	Use a dry cleaning cassette JVC TCL-2U or consult your JVC dealer.
5. Breaks are noticeable in Hi-Fi soundtrack.	• Automatic tracking is engaged.	Engage and adjust tracking manually (IFF pg. 32) or press <b>AUDIO</b> to change the soundtrack to "NORM" (IFF pg. 35).
RECORDING		
<b>SYMPTOM</b>	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", "SAT", "F-1" or "S-1" has been selected as the input mode.	Set to the desired preset.
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 "1-1" "1-2"

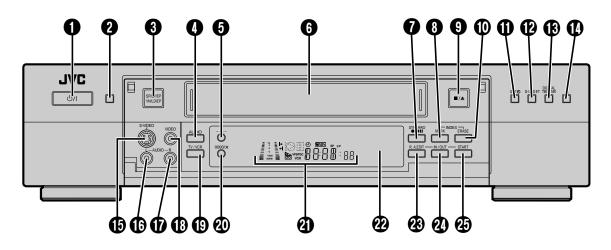
not been turned on. • The input mode is not correct.

Set the input mode to "L-1","L-2",

"F-1" or "S-1".

4. Camcorder recording is not possible.	<ul><li> The camcorder has not been properly connected.</li><li> The input mode is not correct.</li></ul>	Confirm that the camcorder is properly connected. Set the input mode to "L-1", "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 @ and confirm that "@" 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.
<ol> <li>"⊕" and "⊡⊡" on the display panel won't stop blinking.</li> </ol>	• The timer is engaged but there's no cassette loaded.	Load a cassette with the Record Safety tab intact, or cover the hole using adhesive tape.
4. The power shuts off and "④" and "団" won't stop blinking.	<ul> <li>The loaded cassette has had its Record Safety tab removed.</li> <li>The end of the tape was reached during timer recording.</li> </ul>	Remove the cassette and cover the hole with adhesive tape, or insert a cassette with the Record Safety tab intact. 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.
5. "④" blinks for 10 seconds and the Timer mode is disengaged.	• (2) 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- programme as necessary, then press ② again.
6. The VIDEO Plus+ system does not timer-record properly.	• The recorder's preset positions have been set incorrectly.	Refer to "Guide Program Number Set" and re-perform the procedure (🖙 pg. 74).
OTHER PROBLEMS		
<b>SYMPTOM</b>	POSSIBLE CAUSE	CORRECTIVE ACTION
<ol> <li>Whistling or howling is heard from the TV during camcorder record- ing.</li> </ol>	<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. 68).
3. The preset cannot be changed.	• Recording is in progress.	Press <b>PAUSE</b> to pause the recording, change presets, 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.	Turn off the recorder once and connect the TV aerial cable to the recorder properly, then turn on the recorder again. The recorder will try Auto Set Up again (IF pg. 8).
	• The fully-wired 21-pin SCART cable was not connected between TV and the recorder when Preset Download was performed.	Turn off the recorder once and connect the fully-wired 21-pin SCART cable to the recorder properly, then turn on the recorder again. Then perform Preset Download again (E7 pg. 9).
6. The remote control won't operate the TV or satellite receiver.	• The remote control brand setting is incorrect.	Re-set the remote control to the correct brand (🖙 pg. 45, 46).

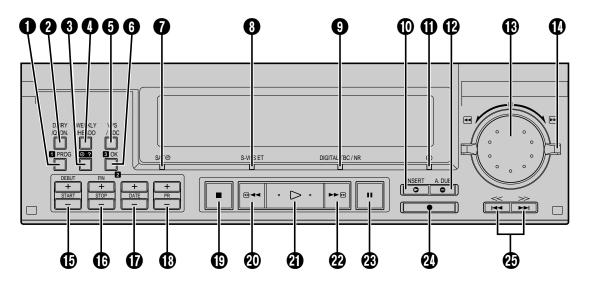
# 

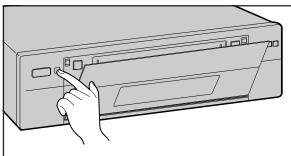


- **③ STANDBY/ON** 也/I **Button** turns recorder on/off (loading a cassette also turns power on).
- **2** Front Panel Open Button opens the front lid.
- **3** SP/LP/EP Button selects tape speed. IF pg. 16
- **AUDIO Button** changes output sound mode.
   □ gg. 35
- ---- (Display) Button switches display between clock time, tape remaining time, counter readings and preset position\*. IF pg. 17
   \* Preset position is not displayed during playback.
- **6** Cassette Loading Slot is where cassette is inserted; door closes, "cassette loaded" indicator lights up on front display panel.
- SYNCHRO ●/●II Button enables Synchro Editing mode. I pg. 49
- ③ INDEX MARK Button marks an index code for Index Search. Image pg. 36
- STOP/EJECT Button stops tape; ejects tape during Stop mode. r g. 14
- INDEX ERASE Button erases an index code for Index Search. 
   Index Search.
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- **③** SAT ② Button enables/disables the Auto Satellite Prog Rec mode. □ pg. 43
- S-VHS ET Button enables/disables S-VHS ET mode. □ pg. 37
- BIGITAL TBC/NR Button enables/disables Digital TBC/NR. pg. 32
- (Content of the standard stress of the stress of the standard stress of the standard stress of the s

- S-VIDEO Input Connector enables S-VIDEO connection to camcorder or second recorder.
  Image: Image of the second recorder.
- AUDIO Input Connector [L] enables easy connection of audio output (mono) from another recorder, camcorder or other source for editing. I pg. 48
- AUDIO Input Connector [R] enables easy connection of audio output (Hi-Fi) from another recorder, camcorder or other source for editing. r pg. 48
- TV/VCR Button switches connected TV's mode between TV and AV. 
   E pg. 14
- Ø 0000 Button resets counter to 0:00:00.
   □ pg. 17
  - X Button cancels timer-programme. ☞ pg. 22
- ④ Display Panel provides clear view of various displays and indicators. □ pg. 81
- Infrared Beam Receiving Window is where remote control should be aimed when in use.
- **3 Random Assemble Edit [R.A.EDIT] Button** accesses R.A.EDIT screen. □ pg. 56
- IN/OUT Button registers edit-in or edit-out point during Random Assemble Editing.
   pg. 57
- START Button starts Random Assemble Editing.
   pg. 57

# **INSIDE VIEW OF FRONT PANEL**





To access covered buttons/connectors, press the front panel open button so that the front panel opens.

- PROG Button accesses VIDEO Plus+ Program screen. ☞ pg. 18
- **2** DAILY Button enables timer recording of daily serials. *□* pg. 19, 21
- ③ ④ ? Button accesses Program screens/displays to check the programme that you have programmed (next programme's information screen/display appears each time button is pressed). *□* gg. 22
- WEEKLY Button enables timer recording of weekly serials. ☞ pg. 19, 21
- **PDC Button** enables/disables PDC recording.
  Image: pg. 19, 21

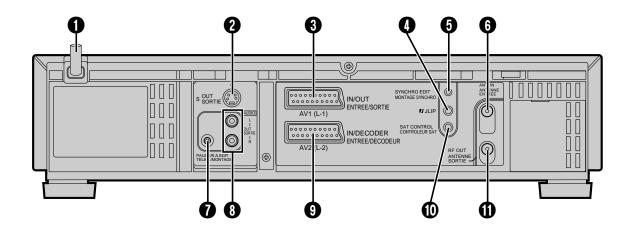
\* VPS (Video Programme System) recording is not currently available in the U.K. and not possible with this recorder.

- OK Button enters selections made in on-screen menus. ☞ pg. 21
- SAT Indicator lights up during Auto Satellite Prog Rec mode. IF pg. 43
- S-VHS ET Indicator lights up during S-VHS ET mode. I gg. 37
- OIGITAL TBC/NR Indicator lights up during Digital TBC/NR. ☞ pg. 32

- INSERT Button engages Insert Editing mode.
  Image: pg. 55
- ① ① (TIMER) Indicator lights when ② has been pressed to engage Timer mode. □ pg. 19, 21
- **B** JOG Dial plays back frame by frame during Still or Play mode. rian pg. 15
- SHUTTLE Ring performs forward and reverse slow-motion and search during Still or Play mode. 
  r pg. 14, 15
- START +/- Button accesses Regular Program screen; inputs programme Start Time. I pg. 20
- STOP +/- Button inputs programme Stop Time.
  I g. 20
- **DATE** +/- Button inputs date of programme for timer recording. ☞ pg. 20
- PR +/- Buttons select a preset position.
  If pg. 16
- () STOP Button stops tape. 🖙 pg. 14
- ② Rewind [REW] Button rewinds tape ; initiates high-speed reverse search. □ pg. 14, 15
- PLAY Button plays back tape riangle pg. 14; cancels Pause, Still, Slow, Search modes. riangle pg. 15
- ② Fast Forward [FF] Button fast-forwards tape; initiates high-speed forward search. □ pg. 14, 15
- PAUSE Button stops tape temporarily during recording recording recording recording recording recording recording recording recording to the stops tape temporarily during playback; plays back frame by frame with each additional press. recording recording recording to the stops tape temporarily during playback; plays back frame by frame with each additional press. recording recording the stops tape temporarily during recording recording the stops tape temporarily during during playback; plays back frame by frame with each additional press.
- RECORD Button starts regular recording (press once), Instant Timer Recording (press twice); sets duration of ITR. I pg. 16, 17
- Button on remote control ☞ pg. 15, 36, 40

# SUBSIDIARY INFORMATION (cont.)

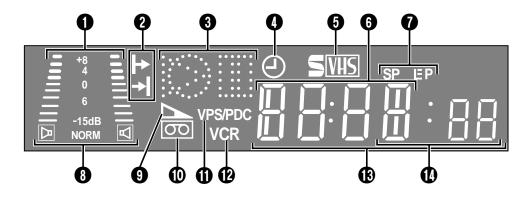
# 80 rear view



- Mains Power Cord supplies power to recorder. □ pg. 6
- ② S OUT Connector enables S-VIDEO connection to TV or second recorder. I pg. 7, 50
- 3 AV1 (L-1) IN/OUT Connector enables AV connection to TV or second recorder; input recordable when "L-1" selected. ☞ pg. 6, 50
- J Terminal (JLIP (Joint Level Interface Protocol) Connector) enables connection of a personal computer or similar device to allow computerized control of the recorder during editing and certain other operations. I pg. 58
- SYNCHRO EDIT Connector enables connection to camcoder equipped with LANC connector, for easy editing. I pg. 49
- G ANT. IN Connector enables connection of aerial. □ pg. 6

- Remote PAUSE Connector enables connection to second recorder equipped with R.A.Edit connector, or to JVC camcorder equipped with Master Edit Control, for easy editing. IP pg. 48
   R.A.EDIT Connector enables connection to second recorder equipped with Remote PAUSE connector for easy editing. IP pg. 56
- AUDIO OUT (L/R) Connectors enable connection of audio cassette recorder, TV or second video recorder for dubbing. IF pg. 63
- AV2 (L-2) IN/DECODER Connector enables connection of satellite receiver, decoder or second recorder; input recordable when "L-2" selected. IF pg. 42, 50
- SAT CONTROL Connector enables connection of the provided Satellite Controller for timer recording with a satellite receiver. I pg. 12
- **(i)** RF OUT Connector enables connection to aerial terminal of TV receiver. I pg. 6

# **DISPLAY PANEL**



- B.E.S.T. Picture System Display lights from bottom to top while B.E.S.T. is active. ☞ pg. 38 Audio Level Indicator displays audio input and output levels. ☞ pg. 34
- **Programme Time Indicators** show the programme start time (→) and the programme stop time (→) for timer-recording. IF pg. 20
- **3** Symbolic Mode Indicators

PLAY: FF/REW VARIABLE SEARCH:		STILL: SLOW:	
		RECORD:	$\bigcirc$
		RECORD PAUSE:	
AUDIO DUBBING:			
AUDIO DUBBING PAUSE:			
INSERT:		$\sim$	
INSERT PAUSE:		0	
AV INSERT:			-)
AV INSERT PAUSE:			

- **③** "Timer" Indicator lights when ④ has been pressed to engage Timer mode. I pg. 19, 21
- S-VHS Indicator lights when a cassette marked S-VHS is inserted with S-VHS mode set to "ON", when an S-VHS-recorded tape or S-VHS ETrecorded tape is played back, or when S-VHS ET mode is engaged. □ pg. 37
- G Channel Display shows preset position where the station currently being received is stored. Clock Display shows current time. □ pg. 10

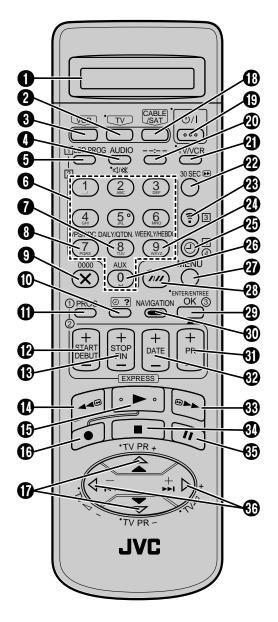
- Tape Speed Indicators display mode of recording; light during Record or Play mode. I pg. 16
- ③ Audio Mode Indicator displays audio output mode currently selected. ☞ pg. 35
- **③ Tape Remaining Time Indicator** displays time remaining on tape when certain buttons are pressed. IF pg. 17
- Cassette Loaded" Mark lights once a cassette is inserted; remains lit until cassette ejected.
- PDC Indicator lights when PDC has been engaged for timer recording. ☞ pg. 19, 21
  - \* VPS (Video Programme System) recording is not currently available in the U.K. and not possible with this recorder.
- VCR Indicator lights when the video recorder is in the video mode. At this point, the TV automatically enters AV mode. IF pg. 14
- Counter shows time elapsed since playback or recording began. (The counter can display up to +/- "19:59:59". If the playback or recording time exceeds this limit, the display starts to count from "0:00:00".)

With  $\square$  displayed, shows time remaining from current tape position to end of tape ( $\square$  pg. 17). Counter, Preset Position\*, Clock and Tape Remaining Time Display appear alternately when --= - (**Display**) is pressed.

- \* Preset Position is not displayed during playback.
  Mode shows external input mode selected (L-1, L-2, SAT\*, F-1 or S-1).
  - \* When "L-2 SELECT" is set to "SAT" (
    pg. 52), "SAT" appears instead of "L-2".

# SUBSIDIARY INFORMATION (cont.)

# **REMOTE CONTROL**



Buttons with a small dot on the left side of the name can also be used to operate your TV. IF pg. 45

- LCD Panel indicates which of the recorder, TV and satellite receiver the remote control can currently operate ☞ pg. 83; is used in the VIDEO Plus+ timer programming. ☞ pg. 18
- **2** TV Button enables remote control of connected TV. I pg. 45, 83
- OCR Button enables remote control of VCR or is used for switching A/B code of the remote control. □ pg. 44, 83
- AUDIO Button changes output sound mode.
   □ pg. 35

┥/鍒 (TV Muting) Button mutes sound of connected TV. ☞ pg. 45

- G LCD PROG Button accesses the VIDEO Plus+ display on LCD panel. 
   □ pg. 18
- Solution I and So
- ⑦ DAILY Button enables timer recording of daily serials. ☞ pg. 19, 21
- PDC Button enables/disables PDC recording.
   Image: pg. 19, 21
   \* VPS (Video Programme System) recording is not currently
  - \* VPS (Video Programme System) recording is not currently available in the U.K. and not possible with this recorder.
- X Button cancels timer-programme. 
   pg. 23
   0000 Button resets counter to 0:00:00. 
   pg. 17
- PROG Button accesses the VIDEO Plus+ Program screen. I pg. 18
- START +/- Button accesses Regular Program screen; inputs programme Start Time. I pg. 20
- STOP +/- Button inputs programme Stop Time.
  I ≠ pg. 20
- Rewind [REW] Button same as button on recorder. IF pg. 14, 15
- PLAY Button same as button on recorder.
  If pg. 14, 15
- **() RECORD Button** same as button on recorder. *I* □ pg. 16

- CABLE/SAT Button enables remote control of connected satellite receiver. pg. 46, "Remote Control LCD" in the right column
- **③ STANDBY/ON** 也/I **Button** same as button on recorder.
- ---- (Display) Button switches display between clock time, tape remaining time, counter readings and preset position\*. I pg. 17
   \* Preset position is not displayed during playback.
- ② TV/VCR Button switches connected TV's mode between TV and AV. □ pg. 14
- 30 SEC Button initiates a 30-second period of fast-motion playback. I pg. 36
- Button transmits entered the PlusCode number to the recorder. IP pg. 18
- WEEKLY Button enables timer recording of weekly serials. pg. 19, 21
- ② ① (TIMER) Button engages timer-standby mode. IF pg. 19, 21
- AUX Button selects recorder's auxiliary input mode. g pg. 48, 50
- MENU Button accesses Menu screen. 
  Pg. 11
- Auto Tracking Button (////) enables/disables auto tracking mode during playback. I pg. 32 SP/LP/EP Button selects tape speed. I pg. 16
- OK Button enters selections mode in on-screen menus. I pg. 11
- NAVIGATION Button accesses title screeen for tape navigation. I pg. 24
- Image: PR +/- Button same as button on recorder.
   Image: Image: pg. 16
- ⑦ DATE +/- Button inputs date of programme for timer recording. C pg. 20
- Fast Forward [FF] Button same as button on recorder. IF pg. 14, 15
- STOP Button same as button on recorder.
  IF pg. 14
- PAUSE Button same as button on recorder. pg. 15

TV  $\checkmark$  +/- Button controls volume of connected TV.  $\square$  pg. 45

# 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 receivers of JVC and other brands. (IF pg. 45, 46)

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

#### **NOTES:**

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

# **Remote Control LCD**

The remote control can operate not only the video recorder but also some of your TV and satellite receiver's functions. The LCD indicates which of these (VIDEO, TV or CABLE/SAT) the remote control can currently operate. When you first purchase the remote control, or after you have just replaced the batteries, VIDEO A (A code) is selected.

☐ To operate your video recorder, first press the VCR button to set the remote control to the Video mode. To switch remote control's A/B code, refer to page 44.



 $\fbox{2}$  To operate your TV, first press the TV button to set the remote control to the TV mode (  $\fbox{pg. 45}).$ 



3 To operate your satellite receiver, first press the CABLE/ SAT button to set the remote control to the Satellite receiver mode (IFP pg. 46).



### **NOTES:**

Even if "TV" is displayed on the LCD, the following operations can be performed without switching the mode.Basic operations for the recorder

- After an operation is completed, "TV" reappears on the LCD.
- Express Timer Programming and the VIDEO Plus+ Timer Programming operations To perform a TV operation again, switch to TV mode
- first.
  Accessing main menu To perform a TV operation again, switch to TV mode first.

### **SPECIFICATIONS**

#### GENERAL

Power requirement	: AC 220 V – 240 V∼, 50 Hz/60 Hz
<b>D</b>	50 HZ/60 HZ
Power consumption	
Power on	: 25 W
Power off	: 5.2 W
Temperature	
Operating	: 5°C to 40°C
Storage	: -20°C to 60°C
Operating position	: Horizontal only
Dimensions (WxHxD)	: 437 mm x 106 mm x 352 mm
Weight	: 5.1 kg
Format	: S-VHS/VHS PAL standard
Maximum recording tin	ne
(SP)	: 240 min. with E-240 video
	cassette
(LP)	: 480 min. with E-240 video
	cassette
(EP)	: 720 min. with E-240 video
	cassette

#### TUNER/TIMER

TV channel storage	
capacity	: 99 positions
cupacity	(+AUX position)
Tuning system	: Frequency synthesized tuner
Channel coverage	: VHF 44.5 MHz – 143 MHz/
enamer corerage	143  MHz - 470  MHz
	UHF 470 MHz – 862 MHz
Aerial output	: UHF channels 22 – 69
·	(Adjustable)
Memory backup time	: Approx. 60 min.
ACCESSORIES	
Provided accessories	· RE cable

Provided accessories

RF cable,
S-Video cable,
Satellite Controller,
Infrared remote control unit,
"AA" battery x 2,
S-VHS ET labels

Specifications shown are for SP mode unless otherwise specified.

E.& O.E. Design and specifications subject to change without notice.

#### **VIDEO/AUDIO**

Signal system	: PAL-type colour signal and CCIR monochrome signal, 625 lines/50 fields
Recording system	: DA4 (Double Azimuth) helical scan system
Signal-to-noise ratio Horizontal resolution	: 45 dB
(SP/LP)	: 250 lines (VHS) 400 lines (S-VHS)
(EP)	: 220 lines (VHS) 350 lines (S-VHS)
Frequency range	: 70 Hz to 10,000 Hz (Normal audio) 20 Hz to 20,000 Hz (Hi-Fi audio)
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)



