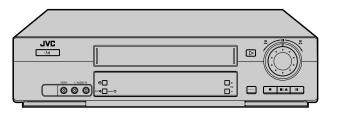
# JVC



# VIDEO CASSETTE RECORDER









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## **Safety Precautions**

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

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

#### IMPORTANT

- Please read the various precautions on page 2 3 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:



Blue to N (Neutral) or Black
 Brown to L (Live) or Red

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 "VHS" (or "S-VHS") can be used with this video recorder. However, only VHS recordings can be made and played back.
- HQ VHS is compatible with existing VHS equipment.
- 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 心/I button does not completely shut off mains power from the unit, but switches operating current on and off. " 也 " shows electrical power standby and " I " shows ON.

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

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

1. DO NOT place the recorder . . .

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

#### MOISTURE CONDENSATION

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

## 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!

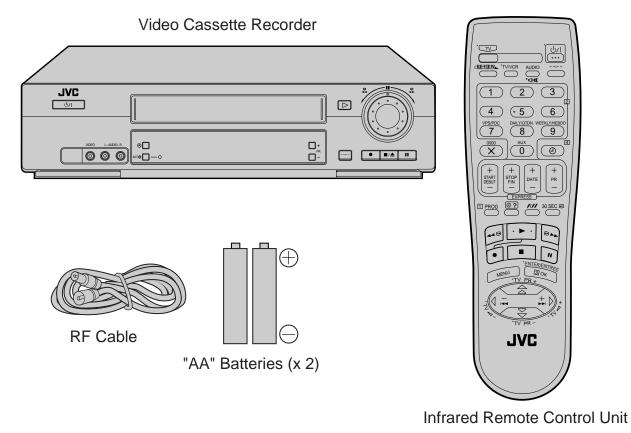
## Dear Customer,

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



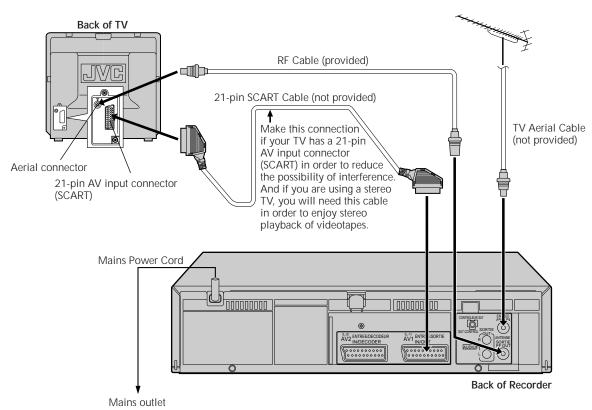


Satellite Controller

► You are now ready to install your video recorder.

## B 2 INSTALLATION CONNECT VIDEO RECORDER TO TV

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).

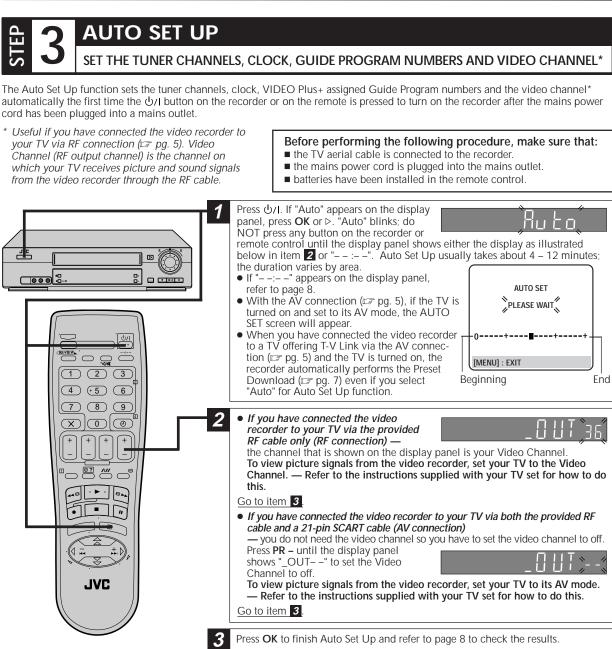
#### ATTENTION

- 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 6.

AFTER YOU FINISH THIS STEP

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. (IF pg. 38)

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

- Video Channel setting (for RF connection users) 🖙 pg. 40
- Tuner setting pg. 42
   Clock setting pg. 32

■ Clock setting 🖙 pg. 38

If a new station begins broadcasting in your area, perform tuner setting (IFF pg. 42) and, if necessary, video channel setting (IFF pg. 40).

- 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 number 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 power cut or if you press U/I or MENU while Auto Set Up is in progress, Auto Set Up will be interrupted; be sure to turn off the recorder power once and press U/I to turn the power back on in order to re-start Auto Set Up.

## PRESET DOWNLOAD

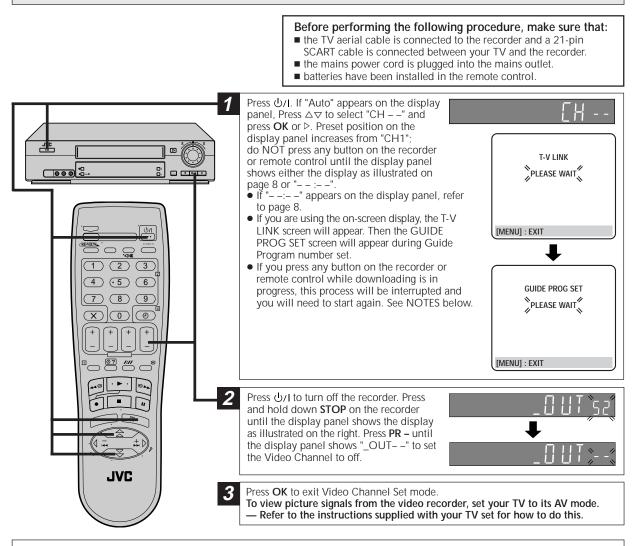
## SET THE TUNER CHANNELS BY DOWNLOADING FROM YOUR TV, CLOCK AND GUIDE PROGRAM NUMBERS

When you connect the recorder and your TV via fully-wired 21-pin SCART cable (1), you can set the recorder's tuner channels by downloading preset data from your TV instead of using the Auto Set Up function (1), After downloading is completed, the recorder sets the clock and VIDEO Plus+ assigned Guide Program numbers automatically. For details, refer to the instruction manual for your TV.

#### ATTENTION

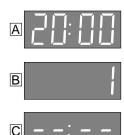
You can use this function only with a TV offering T-V Link, etc.\*

\* 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. 46).

#### 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 6 or after performing the item **1** on page 7.

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 6 or after performing the item **1** on page 7.

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

\* You can check if the Guide Program numbers have been set correctly when you perform VIDEO Plus+ Timer Programming (IP pg. 16); 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:

- 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 F pg. 47) 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 44 46.

#### 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 F gg. 47) 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 44 46.

2 Perform "Clock Set" on page 38.

#### 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:

- 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 6 or "Preset Download" on page 7.

#### 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 VIDEO Plus+, the recorder will record a TV programme of a different station. When programming the timer using VIDEO Plus+, be sure to check that the preset position corresponding to the broadcasting station you wish to record has been selected (r pg. 16, "VIDEO Plus+ Timer Programming").
- If any of the above problems occur, refer to pages 44 46 to input station names (IFF "Set Stations") or delete unnecessary stations (IFF "Delete A Channel"). You can also change station preset positions (IFF "Change Station Preset Position").
- 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. pg. 40, "Video Channel Set".

If you have any difficulty with the above procedures call the JVC Customer Service Hot Line on 0208 208 7654

## -V LINK

## T-V Link **Functions**

When you connect the recorder and your TV via a fully-wired 21-pin SCART cable (27 pg. 5), 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

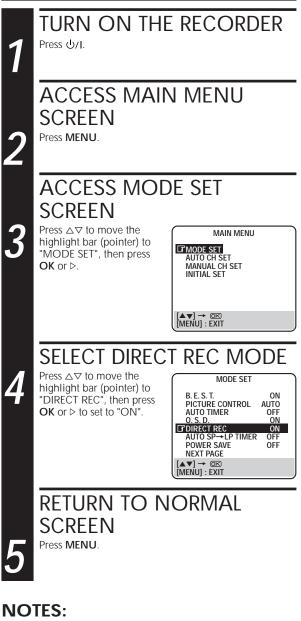
You can use your TV's remote control to turn off the recorder. For details, refer to the instruction manual for your TV.

## 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).

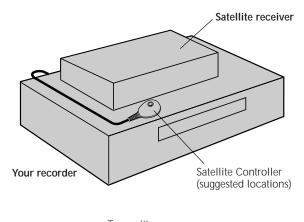


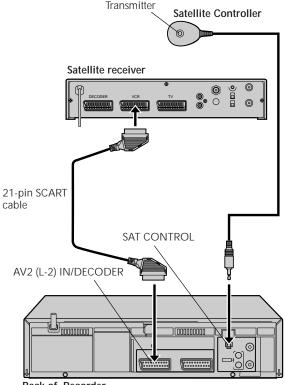
- If "DIRECT REC" is set to "OFF", the RECORD button functions as described in "Recording" (☞ pg. 14). • During the Direct Rec, "--" appears on the display panel.
- When you perform T-V LINK functions, be sure to use a fullywired 21-pin SCART cable.
- Direct Rec is not possible with a scrambled broadcast.
- To record a scrambled broadcast, set "DIRECT REC" to "OFF" and follow the procedure described in "Recording" on page 14.

## 1()

## **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 (r pg. 16) or Express timer programming (pg. 18) starts, the recorder sets its input mode to "L-2" and automatically switches the satellite receiver's channels using the provided Satellite Controller.





#### Back of Recorder

## 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

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-TROUFR TO RECORDER



Connect the Satellite Controller to the SAT CONTROL

## 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

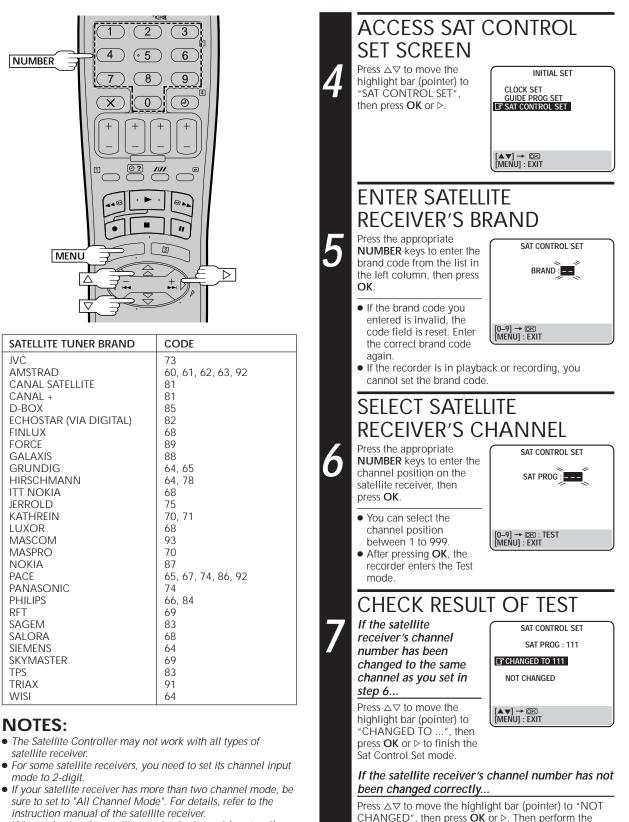
Press  $\triangle \nabla$  to move the highlight bar (pointer) to "INITIAL SET", then press OK or ⊳.

MAIN MENU
MODE SET AUTO CH SET MANUAL CH SET IFINITIAL SET
[▲▼] → ©K [MENU] : EXIT



2

connector on the rear panel.

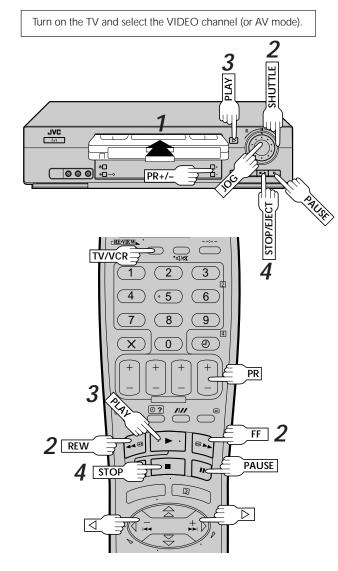


procedure again from step 5.

When selecting the satellite receiver's channel (□ 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.

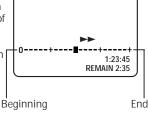
## Playback

12



#### **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." (IIF pg. 33) must be set to "ON", or the



## NOTE:

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

## FIND PROGRAMME START POINT

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

## START PLAYBACK

Press **PLAY**. "BEST" appears blinking in the recorder's display panel during automatic tracking (IIP pg. 22).

• Playback picture quality of LP 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 — TCL-2UX — 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. 33.)

#### **INFORMATION**

When using the AV connection (IP pg. 5), 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.

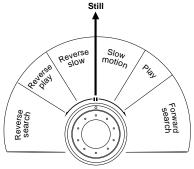
## Usable cassettes



- 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. However, it will record and play back regular VHS signals only. It is not possible to play back a recorded Super VHS tape.

#### NOTE:

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



## Still Picture/Frame-By-Frame Playback



## PAUSE DURING PLAYBACK

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

## ACTIVATE FRAMF-BY-FRAMF 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.

## Slow Motion

## **ACTIVATE SLOW-MOTION** PLAYBACK

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 above).

#### 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.

## Variable-Speed Search



SEARCH During playback or still, turn the SHUTTLE ring to the

right for forward variable-speed search, or to the left for reverse variable-speed search (refer to the illustration on the left).

#### OR

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

- The more times you press, the faster the playback picture moves.
- To decrease speed, press the button for the opposite direction.

To resume normal playback, press PLAY.

## **High-Speed Search**



SFARCH During playback or still, turn the SHUTTLE ring all the

ACTIVATE HIGH-SPEED

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

- For forward high-speed search, turn the SHUTTLE ring all the way to the right and release it within 1 second
- For reverse high-speed search, turn the SHUTTLE ring all the way to the left and release it within 1 second.

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.

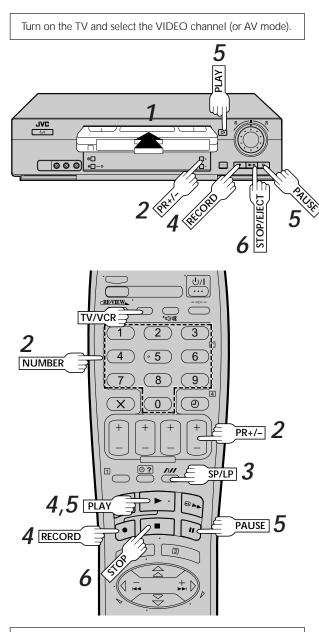
#### NOTE:

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

### ATTENTION

- 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 mode.
- Picture may not appear during high-speed search with a tape recorded in LP mode.

## Recording



#### INFORMATION

When using the AV connection ( $\square$  pg. 5), you can switch between TV mode and AV mode by pressing **TV/VCR**.

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

## **Recording Resume Function**

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

## CHOOSE A PROGRAMME

Press  $\ensuremath{\text{PR}}$  +/– or the  $\ensuremath{\text{NUMBER}}$  keys to select the preset you wish to record.

## SET TAPE SPEED

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

• Picture quality of LP recordings will not be as high as on SP recordings.

## START RECORDING

Δ

5

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

B.E.S.T. takes place at the beginning of both the first SP and the first LP recording after inserting the cassette ( $\square P$  pg. 22).

If "DIRECT REC" is set to "ON", the programme that appears on the TV screen will be recorded ( ${\rm I\!C\!T}$  pg. 9).

• 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.

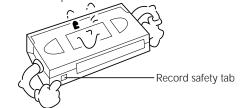
 During the Record Pause mode, you can change the preset by pressing the PR +/- buttons or the NUMBER keys.

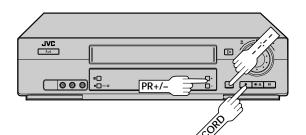
## STOP RECORDING

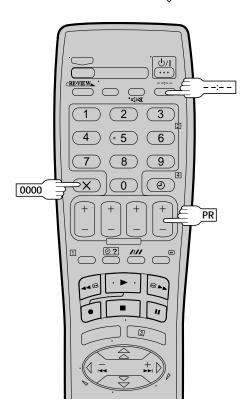
Press **STOP** on the remote control or **STOP/EJECT** on the recorder. Then press **STOP/EJECT** to remove the cassette.

#### 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.







## 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:

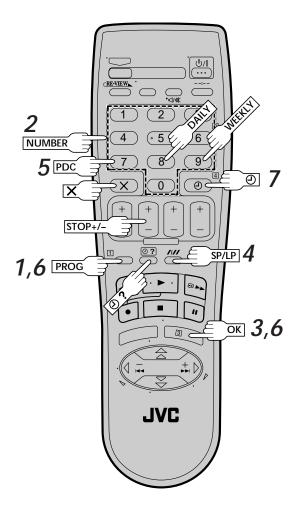
You can only perform ITR using the **RECORD** button on the recorder's front panel.

## 16

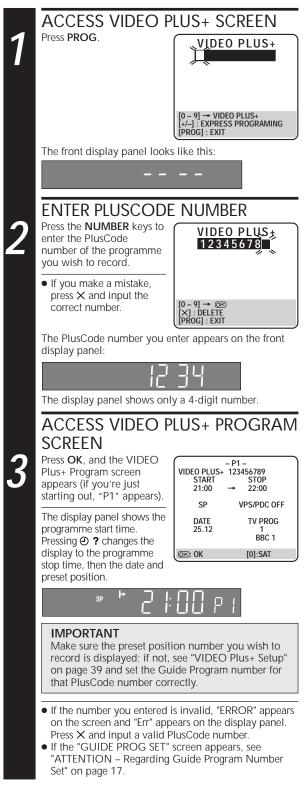
## BASIC OPERATIONS (cont.)

## VIDEO Plus+ Timer Programming

- Before performing 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).



With VIDEO Plus+, 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 (////) 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. (IFF pg. 21)

• Repeat steps 1 – 6 for each additional programme.

#### ENGAGE RECORDER'S TIMER MODE

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

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

#### NOTES:

• To Change The Stop Time . . .

... press **STOP** +/- after pressing **OK** in step **3**. You can compensate for anticipated programme schedule delays this way.

- To Timer-Record Weekly Or Daily Serials . . . . . . after pressing OK in step 3, press WEEKLY (NUMBER key "9") for weekly serials or DAILY (NUMBER key "8") for daily serials (Monday – Friday). Either "WEEKLY" or "DAILY" appears on the screen. Pressing the button again makes the corresponding indication disappear.
- You can programme this recorder to timer-record as many as 8 programmes. If you try to programme the recorder to record a ninth, "PROGRAM FULL" appears on screen and "FULL" appears on the front display panel. To record the extra programme, you must first cancel any unnecessary programmes (III) pg. 20).
- It is not possible to timer-record a TV programme with a PlusCode number which starts with "0".

## 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 most 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 (IFF 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.

#### Satellite Receiver Users

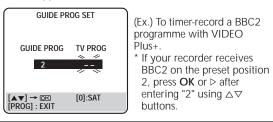
- To timer-record a satellite broadcast using VIDEO Plus+:
- 1 Perform "Satellite Receiver Control Setting" (1 pg. 10).
- Perform steps 1 7. In step 3, the display panel shows "L2" for the preset position. In step 5, you cannot set PDC to ON.
- 3 Leave the satellite receiver's power on.

## 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 △マ to input the preset position number on which your recorder or satellite receiver receives that station, then press OK or ▷ to set the Guide Program Number. The VIDEO Plus+ Program screen appears.



## **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 [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.



6

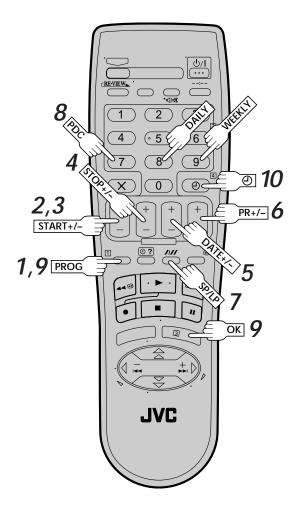
## 18

## BASIC OPERATIONS (cont.)

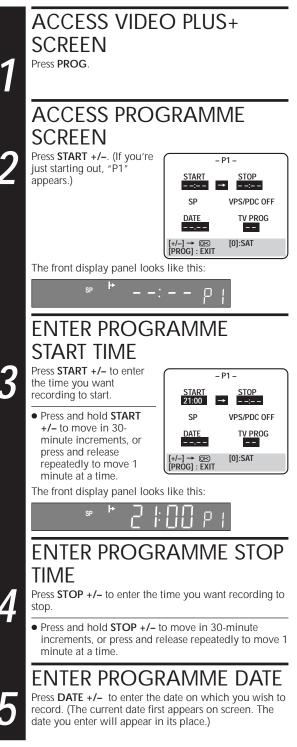
## Express Timer Programming

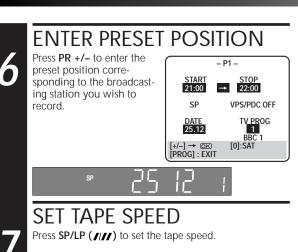
#### Before performing Express Timer Programming:

- 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 PDC MODE

0

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

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. (IFF pg. 21)

• 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.

• 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. 20).

#### Satellite Receiver Users

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

- Perform "Satellite Receiver Control Setting" (
   pg. 10).
- 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 most 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.

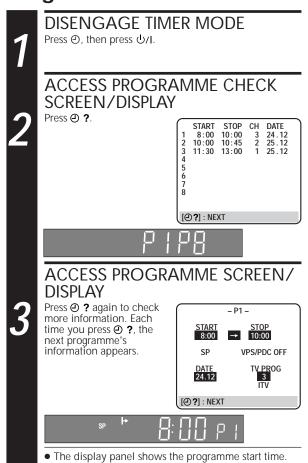
- WARNING-TIMER RECORDING TO START SOON [X]

#### 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.





• 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...

#### 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 (////), 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 Press @.

#### 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. 34) or the recorder is in the Timer mode; however, it is not possible to cancel or replace the programmes.

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**JVC** 

CREVIEW

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START+/-

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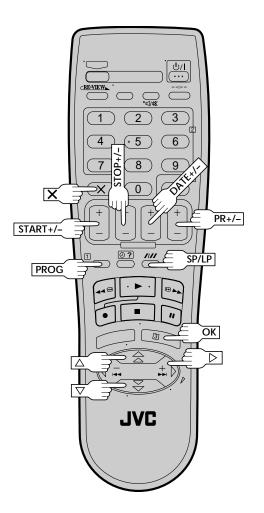
6 P

# 5

Δ

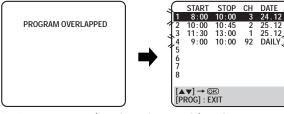
3 24.12

1 25.12



#### When programmes overlap each other

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  $\triangleright$ .

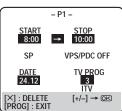
• You can only select one of the overlapping programmes.

#### 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  $\times$  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 (**////**) 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:

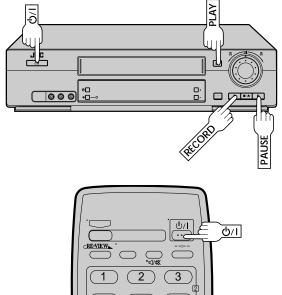
If the overlap is not yet solved or another overlap occurs with the timer programme setting made last after making correction on a programme, the conflicting programmes will be shown on the Program Check screen again. Repeat the above steps again until the overlap is solved.

## ADVANCED OPERATIONS

## Playback/ Recording According To Tape Characteristics

22

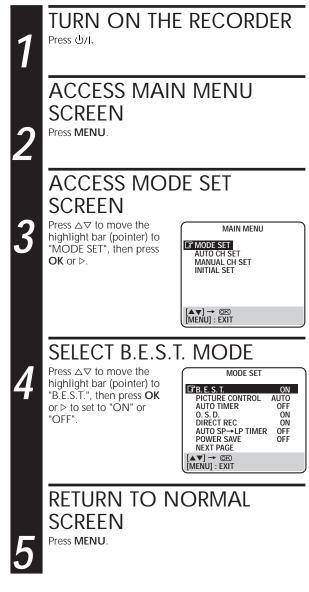
Turn on the TV and select the VIDEO channel (or AV mode).



#### 4 · 5 6 7 8 9 4 X 0 Θ +0? 1111 P PLAY PAUSE ... RECORD OK MENU $\triangleright$

## **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 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 (I pg. 26).
- 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 (CF pg. 15).

#### 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 22.

## Playback

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

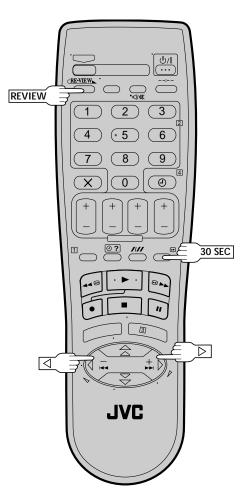


 B.E.S.T. IS active during Auto Tracking. "BEST" appears blinking on the recorder's display panel.

- 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 22.
- "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.

## Looking For The Scene You Want

24



## **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.

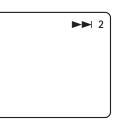
## ADVANCED OPERATIONS (cont.)

## **Index Search**

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

### NOTE:

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



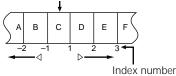
## ACTIVATE INDEX SEARCH

Press  $\triangleleft$  or  $\triangleright$  ( $\blacksquare \triangleleft$  or  $\triangleright \blacksquare$ ). " $\blacksquare \triangleleft$  1" or " $\triangleright \blacksquare$  1" is displayed on screen and search begins in the corresponding direction.

- To access index codes 2 through 9, press < or ▷ 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 ▷ once.

Current position



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

## Instant ReView

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

## NOTE:

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

## ACTIVATE INSTANT REVIEW

Press **REVIEW**. The recorder power comes on and the recorder searches for the index code indicating the start of the last timer-recorded programme. Once it's found, playback begins automatically.

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

- Instant ReView is not possible while the recorder is in the Timer mode.
- The number of recorded programmes will not be displayed on the front display panel after Auto Satellite Prog recording (L=F pg. 26).

## Selecting The Sound You Want



## 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 "HI FI L [] 40] R" appears on the screen.
- To listen to a bilingual programme, press AUDIO until "HI FI L []>" or "HI FI ◀] 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. 33).

## Soundtrack Selection

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

#### During Playback

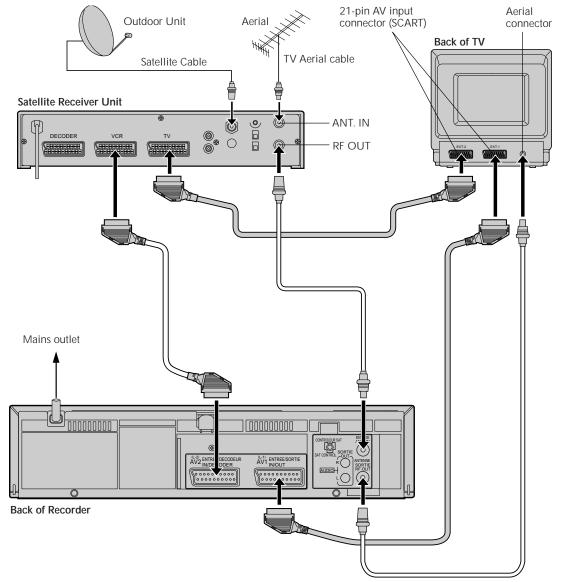
Pressing AUDIO on the remote control changes the soundtrack being played back as follows:

TRACK	
On-Screen Display	USE
HIFI LDP ⊄ÜR	For Hi-Fi stereo tapes
HIFI L D	For main audio of Bilingual tapes
HIFI ⊄ŨR	For sub audio of Bilingual tapes
NORM	For audio-dubbed tapes
HI FI NORM	For audio-dubbed tapes

- "HIFI L I III R" 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 (III) pg. 33).

## 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. 32), 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.

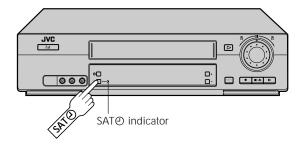
• If you turn on the recorder when the satellite receiver's power is off, nothing appears on the TV screen. In this case, turn on the satellite receiver, or set the TV to its TV mode, or press **TV/VCR** on the remote control to set the recorder to the video mode.

#### NOTE:

26

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>®</sup> button to engage the Auto Satellite Prog Rec mode, if the SAT<sup>®</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" (P g. 18) to timer-record a satellite programme.

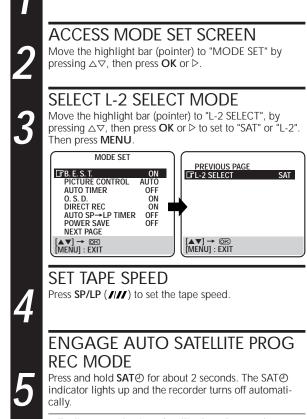
\* Some satellite receivers output signals even if the power is off. Auto Satellite Prog Recording is not possible with those satellite receivers.

#### Before performing the following steps:

Press MENU.

ACCESS MAIN MENU SCREEN

- 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**<sup>(2)</sup>. The SAT<sup>(2)</sup> indicator goes off.
- If the recorder's power is off, it is not possible to
- engage the Auto Satellite Prog Rec mode.

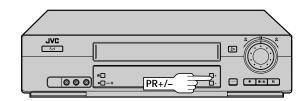
- Auto Satellite Prog recording is possible with the AV2 (L-2) IN/DECODER connector only.
- When the Auto Satellite Prog Rec mode is engaged or the recorder's power is turned off after Auto Satellite Prog recording is finished, the recorder will not enter the Timer mode even though "AUTO TIMER" is set to "ON".
- After Auto Satellite Prog recording, the number of recorded programmes will not be displayed on the front display panel for the Instant ReView function (□ pg. 24).
- 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 

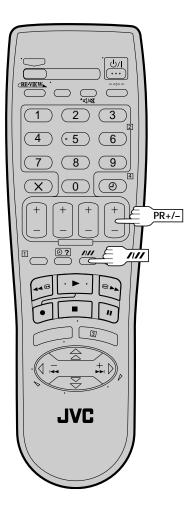
   indicator blinks while Auto Satellite Prog recording is in progress.
- Pressing the recorder's 0/1 button while Auto Satellite Prog recording is in progress turns off the recorder's power and disengages the Auto Satellite Prog Rec mode.
- If there is more than one satellite programme you wish to record 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 (1) pg. 22) does not work while Auto Satellite Prog recording is in progress.
- Just Clock ( pg. 38) 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.

## ADVANCED OPERATIONS (cont.)

## Playback Picture Adjustment

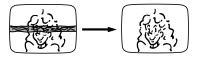
28





## 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.





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.

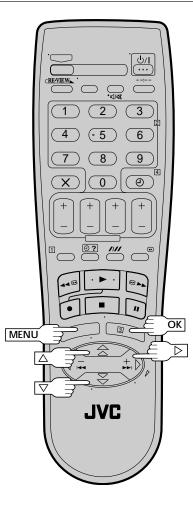
### NOTE:

2

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

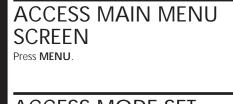
## Minimizing Picture Degradation While Editing

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



## **Picture Control**

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



## ACCESS MODE SET

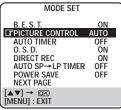
Move the highlighted bar (pointer) to "MODE SET" by pressing  $\triangle \nabla$ , then press **OK** or  $\triangleright$ .

## SELECT PICTURE CONTROL SET MODE

Move the highlighted bar (pointer) to "PICTURE CONTROL" by pressing  $\triangle \nabla$ , then press **OK** or  $\triangleright$  to select the desired mode. **AUTO**: Provides

3

optimised picture benefits of B.E.S.T. Picture System. Normally select "AUTO".



- EDIT: Minimizes picture degradation during editing (recording and playback).
- **SOFT:** Reduces image coarseness when viewing overplayed tapes containing a lot of noise.
- SHARP: Clearer, sharper-edged picture when viewing images with lots of flat, same-coloured surfaces such as cartoons.

### NOTES:

- When you select "EDIT", "SOFT" or "SHARP", the selected mode will not change until you select again.
  When you select "EDIT" to dub tapes, be sure to
  - select "AUTO" after you finish dubbing the tapes.

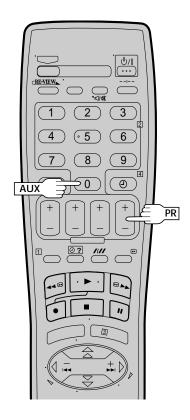
RETURN TO NORMAL SCREEN Press MENU.

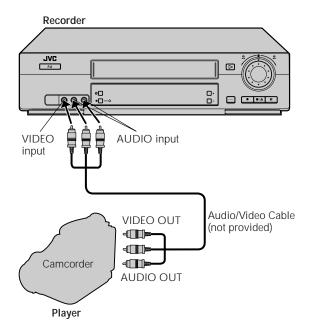
- When "B.E.S.T." is "OFF", "PICTURE CONTROL" switches automatically from "AUTO" to "NORM".
- Select "EDIT" when you are dubbing tapes. Refer to page 30 or 31.

## ADVANCED OPERATIONS (cont.

## Edit From A Camcorder

3()





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

## MAKE CONNECTIONS

Connect the camcorder's AUDIO/VIDEO OUT connectors to the recorder's front panel AUDIO/VIDEO input connectors.

• When using a monaural camcorder, connect its AUDIO OUT connector to the AUDIO L input connector on your recorder.

## SET RECORDER'S INPUT MODE

Press  $\mbox{AUX}$  and/or  $\mbox{PR}$  so that "F-1" appears in place of a preset position number.

## SET EDIT MODE

See "Picture Control" on page 29.

## START CAMCORDER

Engage its Play mode.

## START RECORDER

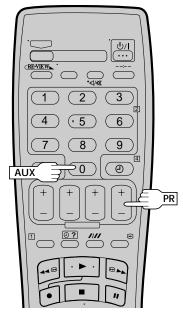
Engage its Record mode.

### NOTES:

3

- 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.

## Edit To Or From Another Video Recorder



## NOTES:

- All necessary cables can be obtained from your dealer.
- 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 (□ pg. 33).

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

## MAKE CONNECTIONS

Connect the player's 21-pin SCART connector to the recorder's 21-pin SCART connector as illustrated below.

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

 $\ldots$  . connect its AV1 (L-1) IN/OUT connector to the recording deck.

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

 $\ldots$  connect its AV2 (L-2) IN/DECODER or AV1 (L-1) IN/OUT connector to the source player.

## SET RECORDING DECK'S INPUT MODE

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

• When using the AV2 (L-2) IN/DECODER connector, set "L-2 SELECT" to the appropriate mode. (IF pg. 32)

## SET EDIT MODE

See "Picture Control" on page 29.

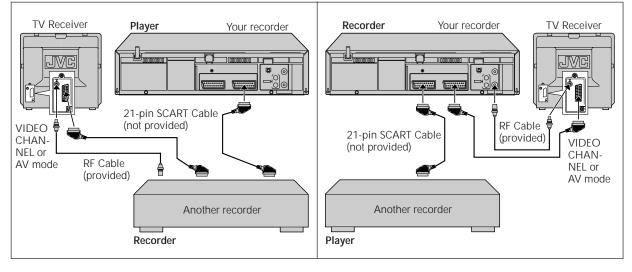
## START SOURCE PLAYER

Engage its Play mode.

3

## START RECORDING DECK

Engage its Record mode.

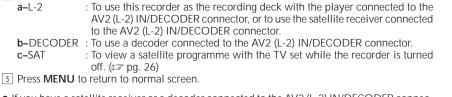


## L-2 SELECT Setting

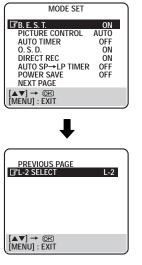
Set "L-2 SELECT" to the appropriate mode depending on the type of unit connected to the rear panel AV2 (L-2) IN/DECODER connector of this recorder.

1 Press MENU to access the Main Menu screen.

- 2 Press △▽ to move the highlight bar (pointer) to "MODE SET", then press OK or ▷.
- 3 Press  $\Delta$   $\nabla$  to move the highlight bar (pointer) to "L-2 SELECT".
- 4 Press OK or ▷ to select "L-2", "DECODER" or "SAT".

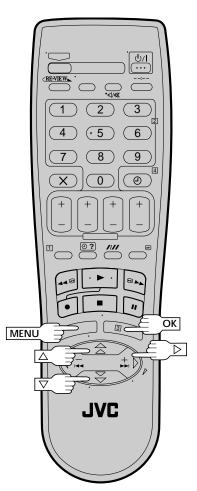


- If you have a satellite receiver or a decoder connected to the AV2 (L-2) IN/DECODER connector, be sure to set "L-2 SELECT" back to appropriate mode after editing.
- If you're not connecting a satellite receiver or a decoder to the AV2 (L-2) IN/DECODER connector, leave "L-2 SELECT" set to "L-2".
- The default setting is "L-2"; if the recorder's memory backup has expired due to a power cut or because the AC was removed from the recorder, "L-2" 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".



## 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.

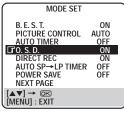


## ACCESS MODE SET

Move the highlight bar (pointer) to "MODE SET" by pressing  $riangle \nabla$ , then press **OK** or ightarrow.

## 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 "OFF".

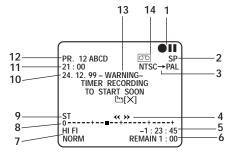


#### RETURN TO NORMAL Press MENU.

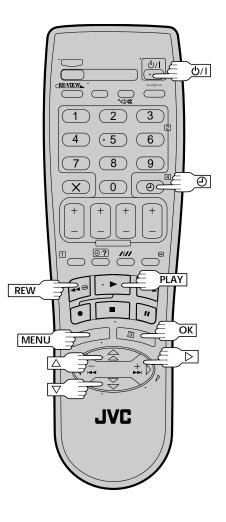
### NOTES:

- 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.



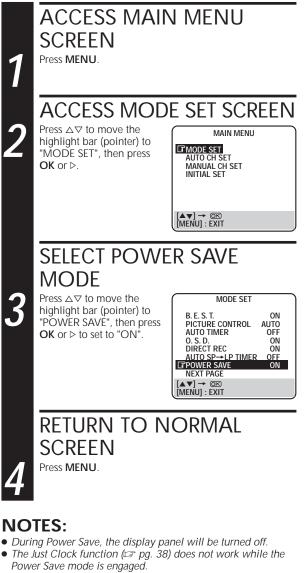
- 1- Operation mode indicators
- 2- Tape speed SP/LP/EP (EP is for NTSC playback only)
- 3- NTSC playback display (🖙 pg. 36)
- 4- Tape direction
- 5- Counter display
- 6- Tape remaining time indicator (CF pg. 15)
- 7- Audio mode display (127 pg. 25)
- 8- Tape position indicator (P pg. 12)
- 9- Type of Broadcast (127 pg. 25)
- **10–** Current day/month/year
- 11– Clock display
- 12- Channel position number and station name/Aux. indicator (L-1, L-2, SAT\* or F-1)
  - \* When "L-2 SELECT" is set to "SAT" (r pg. 32), "SAT" appears instead of "L-2".
- 13- Timer warning display (17, 19)
- 14- Cassette loaded mark



## ADVANCED OPERATIONS (cont.)

### Power Save Mode

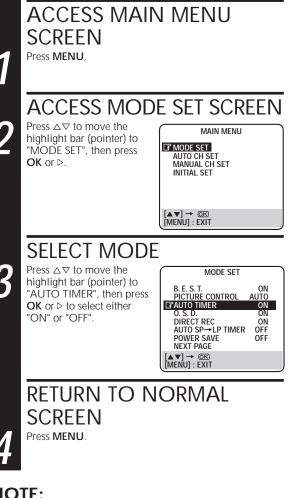
You can reduce the power consumption while the recorder is turned off.



- 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 (27 pg. 26).
  - ... "L-2 SELECT" is set to "DECODER" or "SAT" (II pg. 32).

## **Auto Timer**

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



#### NOTE:

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

## **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 U/I 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 . . .

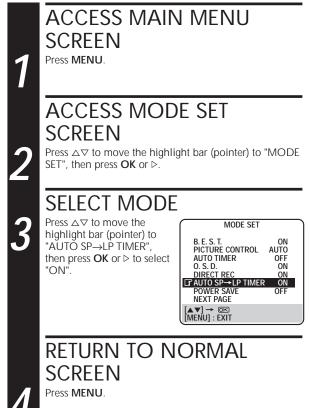
Recording a programme of 210 minutes in length onto a 180minute tape

Approximately 150 minutes Approximately 60 minutes

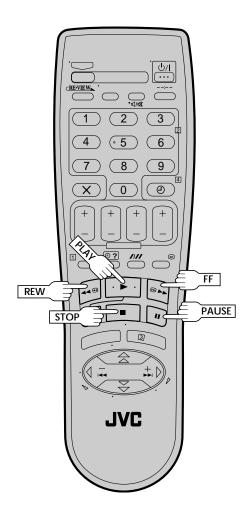
LP mode

Total 210 minutes

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



- The Auto SP $\rightarrow$ 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.



## 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.

### NOTE:

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

## **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.

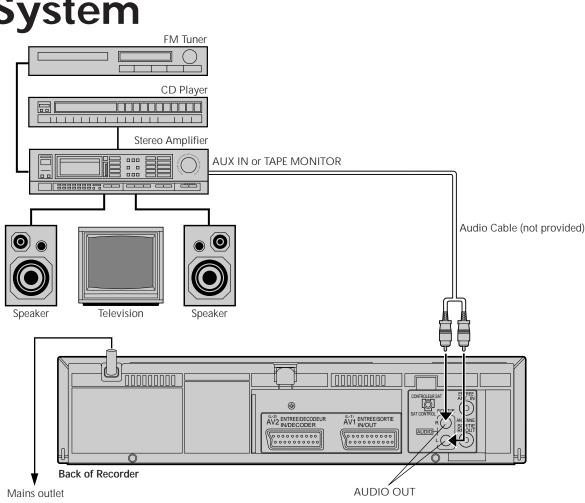
## START PLAYBACK

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.

# 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.



1

## 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.

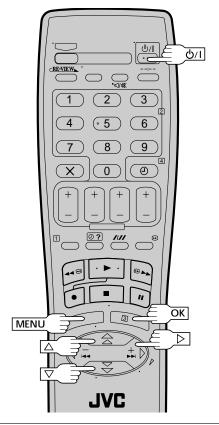
### CAUTIONS:

- 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.

## SUBSIDIARY SETTING

# 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 (c; pq. 26)
  - `"L-2 ŠELECT" is set to "SAT". (☞ pg. 32)
- 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 (127 pg. 6), Preset Download (r pg. 7) or Auto Channel Set (r pg. 42), 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 (
  "Just Clock" in the left column).

TURN THE RECORDER ON Press 心/I.

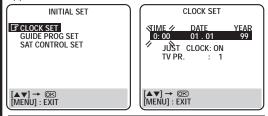
### ACCESS MAIN MENU SCREEN Press MENU.

### 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  $\triangle \nabla$  to change the time by 30 minutes.
- When you set the date, press and hold △▽ to change the date by 15 days.

### SET JUST CLOCK

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

- For the Just clock function, 🖙 "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



5

6

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 ▷.

### START CLOCK OPFRATION Press MENU.

# **VIDEO Plus+ Setup**

### IMPORTANT

Normally, Auto Set Up (27 pg. 6), Preset Download (27 pg. 7) or Auto Channel Set (27 pg. 42) sets the Guide Program Numbers automatically. You need to set the Guide Program Numbers manually only in the following cases.

- When timer-programming with VIDEO Plus+, 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 VIDEO Plus+.
- 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  $\triangle \nabla$  to move the highlight bar (pointer) to "GUIDE PROG SET", then press **OK** or  $\triangleright$ .

## ENTER GUIDE PROG NUMBER

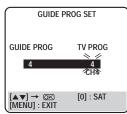
Press  $\triangle \bigtriangledown$  to enter the Guide Program number for the desired station as shown in the TV listings. Then press **OK** or  $\triangleright$ .



(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 VIDEO Plus+, you need to install the provided Satellite Controller and perform the procedure described in "Satellite Receiver Control Setting" (III) pg. 10).
- 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 VIDEO Plus+ timer recording. The Guide Program numbers can be found in most TV listings.

# 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.

## JVC U/I •□ 000 STOP <u>ს/I</u> RE-VIEW 2 3 5 6 8 9 X 0 ④ PR 0? //// OK JVC

## SUBSIDIARY SETTINGS (cont.)

### IMPORTANT

Perform the following steps only if -

- Video Channel Set has not been done correctly by the Auto Set Up function (I pg. 6).
- interference appears in the TV picture after you have moved to a different area or a new station has started broadcasting in your area.
- you change the connection between your recorder and TV from RF connection to AV 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), you do not need the video channel so you have to set the video channel to off. — Go to "With AV 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 41.

## With AV 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  $\ensuremath{\text{STOP}}$  on the recorder until the display panel shows the following.

### SET VIDEO CHANNEL

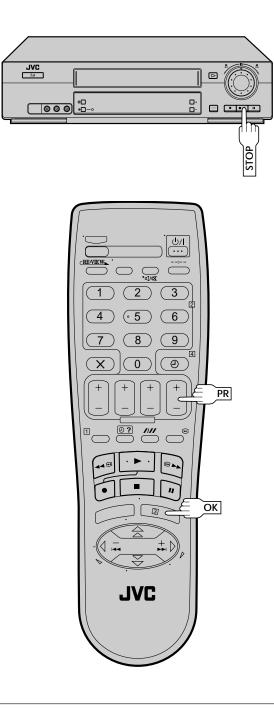
Press PR - until the display panel shows "\_OUT- -".

• Now the video channel is set to off.

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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 CHANNE

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 48</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. (<u>Refer to the</u> 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.

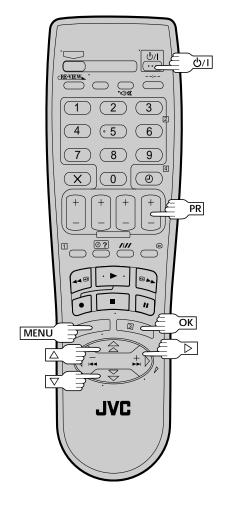
### EXIT VIDEO CHANNEL SET MODE

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).



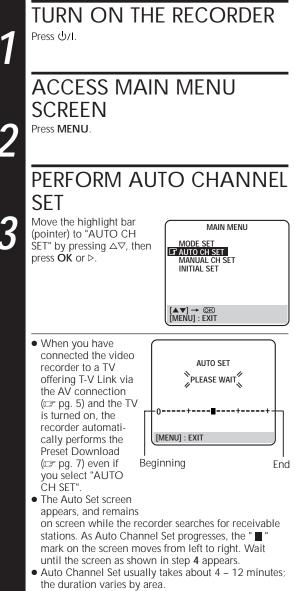
### IMPORTANT

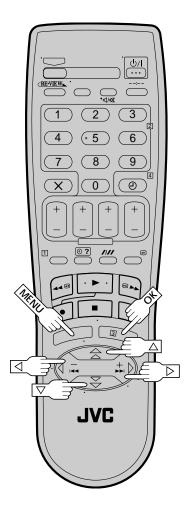
Perform the following steps only if -

- Auto Channel Set has not been set correctly by Auto Set Up function (IF pg. 6) or Preset Download (IF pg. 7).
- 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

		СН	ID	חח	СН	ID
- 1	, PR				UH	υ
	01	26	BBC1	08		
1	02	33	BBCZ	09		
	03	23	ITV	10		
	04	30	CH4	11	-	
	05	37	CH5	12		
	06			13		
	07			14		
	- <b>[A</b> ]	<b>T4</b>	•]			
	→ OK : EDIT					
	$\rightarrow$ [X] : DELETE					
	[MEŇŮ] : EXIT					

station names (ID - IF pg. 47). 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  $\triangle \bigtriangledown \triangleleft \triangleright$  button on the remote control.

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

## RETURN TO NORMAL SCREEN

### Press MENU.

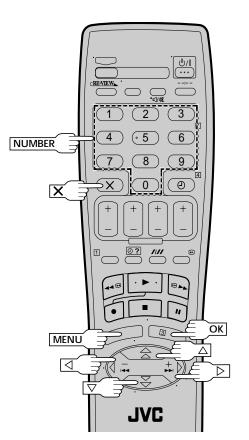
- Using the Confirmation screen, you can skip or add preset positions, enter station names and perform other operations. Refer to pages 44 - 48 for the procedures.
- Depending on reception conditions, the stations may. on occasion, not be stored in order, and the station names may not be stored correctly.

### **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 VIDEO Plus+, the recorder will record a TV programme of a different station. When programming the timer using VIDEO Plus+, be sure to check that the preset position corresponding to the broadcasting station you wish to record has been selected (r pg. 16, "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 I "Delete A Channel" on page 45.

### NOTES:

- Fine tuning is performed automatically during Auto Channel Set. If you wish to perform it manually, refer to page 45.
- 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 (III) pg. 6), Preset Download (III) pg. 7) or Auto Channel Set (III) pg. 42).

# 1 ว

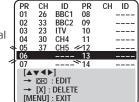
ACCESS MAIN MENU Press MENU.

## 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.

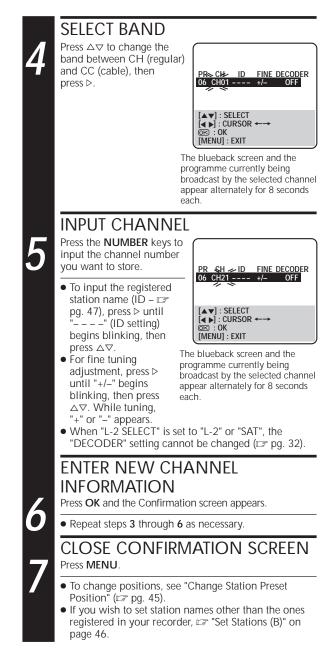
### SELECT POSITION

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



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 VIDEO Plus+ in this state, the "GUIDE PROG SET" screen appears; set the Guide Program numbers on this screen. Im "ATTENTION – Regarding Guide Program Number Set" on page 17.

Or perform "Guide Program Number Set" (137 pg. 39).

## Delete A Channel

Perform steps 1 and 2 of "Storing Channels Manually" on page 44 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" (III) pg. 32).

## ACCESS CONFIRMATION

Perform steps 1 and 2 of "Storing Channel Manually" on page 44.

### SELECT POSITION

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

CHANGE DECODER SETTING Press  $\triangleright$  until "OFF" (decoder setting) begins blinking, and set it to "ON" by pressing  $\triangle \nabla$ .

### RETURN TO CONFIRMATION SCREEN

Press OK.

• Repeat steps 3 through 5 as necessary.

CLOSE CONFIRMATION SCREEN Press MENU.

### NOTE:

Δ

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 44 to access the Confirmation screen before continuing.

### SELECT ITEM

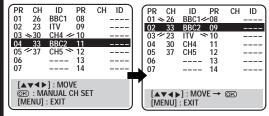
Press  $\Delta \nabla \triangleleft \triangleright$  until the item you want to move begins blinking. Then press **OK** and the station name (ID) and its channel (CH) number begin blinking.



### 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 44 to access the Confirmation screen before continuing.

SELECT CHANNEL TO FINE-TUNE Press △▽ ⊲▷ until the channel you want to tune begins

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

### ACCESS MANUAL CHANNEL SET SCREEN



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

### PERFORM TUNING



Press  $\triangleright$  until "+/-" begins blinking, then press  $\triangle \nabla$  until the picture is 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 44 to access the Confirmation screen before continuing.

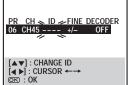
SELECT ITEM Press △▽ ⊲▷ until the item you want begins blinking.

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



[MENU] : EXIT

Registered station names ( $\square P$  pg. 47) appear as you press  $\triangle \nabla$ .



Press OK.

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

## CLOSE CONFIRMATION SCREEN

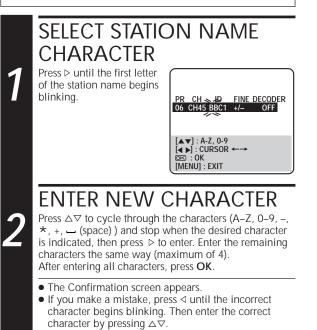
Press MENU.

## 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 44 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, –,  $\star$ , +, - (space) (maximum of 4).

5

## **TV Station And ID List**

STATION NAME	ID*	STATION NAME	ID*
Anglia TV	ANGL	SAT	SAT
ARĎ	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 Bayern1	BORD BR1	SKY Sky One	SKY 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 DR TV	DRS DRTV	TYNE TEES	TEES TEXT
DRTV	DRIV	Text 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 HTV	HRT HTV	TV2 TV5	TV2 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 NED3	NED2 NED3	West3 YLE 1	WDR3 YLE1
Network 2	NEDS NET2	YLE 2	YLE2
NRK	NRK	Yorkshire TV	YORK
N-TV	N-TV	ZDF	ZDF
Offener Kanal	OKAN	Zurich 1	ZUR1
ORF1	ORF1	3SAT	3SAT
ORF2	ORF2	L	·]
ORF3	ORF3		s shown on-screen in lieu of the
OWL 3	OWL3	station name. The "ID" abbrevi	
Premiere	PRMI	tion screen and is displayed or	the TV screen each time the
PR07	PR07	recorder is tuned to a different	station.
RAI1 RAI2	RAI1 RAI2		
RAI2 RAI3	RAI2 RAI3		
RB1	RB1		
RB3	RB3		
Rikisutvarpid-S	RKPS		
RTBF 1	RTB1		
RTBF 2	RTB2		
RTE 1	RTE1		
RTL	RTL		
RTL 2	RTL2		
RTP	RTP		

## **48**

### 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.

	BBC1	BBC2	ITV	CH4	CH5
London & South-East					
Bluebell Hill		46	43	65	_
Crystal Palace		33	23	30	37
Dover		56	66	53	—
Heathfield		52	64	67	_
Oxford	57	63	60	53	49
South-West					
Beacon Hill	57	63	60	53	_
Caradon Hill	22	28	25	32	_
Huntshaw Cross	55	62	59	65	67
Redruth	51	44	41	47	37
Stockland Hill	33	26	23	29	_
Channel Islands					
Fremont Point	51	44	41	47	
South					
Hannington	30	45	42	66	35
Midhurst		55	42 58	68	55
Rowridge		24	27	21	_
Kownage	51	24	21	21	_
West					
	ГO		11	Γ4	27
Mendip	58	64	61	54	37
East					
Sandy Heath		27	24	21	39
Sudbury		44	41	47	35
Tacolneston	62	55	59	65	52
Midlands					
Ridge Hill	22	28	25	32	35
Sutton Coldfield		40	43	50	37
The Wrekin		33	23	29	35
Waltham		55 64	23 61	29 54	35
	50	04	01	54	55
North					
Belmont	22	28	25	32	56
Emley Moor		51	47	41	37
.,					

North-West	BBC1	BBC2	ITV	CH4	CH5
Caldbeck Winter Hill		34 62	28 59	32 65	56 48
North-East					
Bilsdale West Moor	33	26	29	23	35
Chatton	39	45	49	42	_
Pontop Pike	58	64	61	54	68
Scotland					
Angus	57	63	60	53	—
Black Hill	40	46	43	50	37
Sandale	==	—	—	—	
Caldbeck		34	28	32	56
Creigkelly		27	24	21	48
Darvel		26	23	29	35
Durris		28	25	32	67
Eitshal		26 46	23 43	29 50	_
Keelylang Hill Knock More		40 26	43 23	50 29	_
Rosemarkie		20 45	23 49	29 42	67
Rumster Forest		27	24	21	
Selkirk		62	59	65	52
Wales					
Blaenplwyf	31	27	24	21	56
Carmel		63	60	53	_
Llanddona	57	63	60	53	_
Moel-y-Parc	52	45	49	42	_
Presely	46	40	43	50	37
Wenvoe	44	51	41	47	_
Northern Ireland					
Brougher Mountain	22	28	25	32	—
Divis		27	24	21	37
Limavady	55	62	59	65	_

# **Questions And Answers**

### PLAYBACK

<ul> <li>Q. What happens if the end of the tape is reached during playback or search?</li> <li>A. The tape is automatically rewound to the beginning.</li> <li>Q. Can the video recorder indefinitely remain in the still mode?</li> </ul>	<ul> <li>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?</li> <li>A. This is normal. It reduces distortion at the pause and resume points.</li> </ul>		
<ul> <li>A. No. It stops automatically after 5 minutes to protect the heads.</li> <li>Q. During search, slow, still and frame-by-frame playback, I can't hear any audio. What's the</li> </ul>	<ul> <li>Q. Can the video recorder indefinitely remain in the Record-Pause mode?</li> <li>A. No. The video recorder shuts off automatically after 5 minutes to protect the heads.</li> </ul>		
<ul> <li>problem?</li> <li>A. This is normal.</li> <li>Q. When returning from variable-speed search to normal playback, the picture is disturbed. Should I be concerned about this?</li> <li>A. No, it is normal.</li> </ul>	<ul> <li>Q. What happens if the tape runs out during recording?</li> <li>A. The video recorder automatically rewinds it to the beginning or, if Timer Recording, the cassette is ejected.</li> <li>TIMER RECORDING</li> </ul>		
<ul> <li>Q. Noise bars appear during variable-speed search. What's the problem?</li> <li>A. This is normal.</li> </ul>	<ul> <li>O. "○" and "O" remain lit on the display panel. Is there a problem?</li> <li>A. No. This is a normal condition for a timer recording in progress.</li> </ul>		
<ul> <li>Q. Sometimes, during Index Search, the video recorder can't find the programme I want to see. Why not?</li> <li>A. There may be index codes too close together.</li> </ul>	<ul> <li>Q. Can I programme the timer while I'm watching a tape or a TV broadcast?</li> <li>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.</li> </ul>		

RECORDING

#### 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.

# Troubleshooting

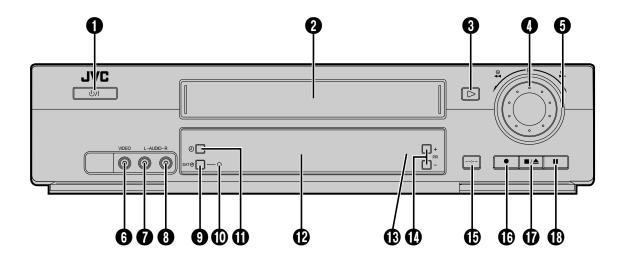
Before requesting service for a problem, use this chart to see if you can correct the trouble yourself. Small problems are often easily corrected, and this can save you the trouble of sending your video recorder off for repair.

POWER				
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION		
1. No power is applied to the recorder.	• The mains power cord is disconnected.	Connect the mains power cord.		
2. The clock is functioning properly, but the recorder cannot be powered.	<ul> <li>"⊕" is displayed on the display panel with Auto Timer set to "OFF".</li> </ul>	Press the O button to turn the "O" indicator off.		
3. The remote control won't function.	• The batteries are discharged.	Replace the dead batteries with new ones.		
TAPE TRANSPORT				
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION		
1. The tape does not run during recording.	<ul> <li>""" is displayed on the display panel.</li> </ul>	Press <b>PLAY</b> to turn the """ indicator off.		
2. The tape will not rewind or fast- forward.	<ul> <li>The tape is already fully rewound or fast-forwarded.</li> </ul>	Check the cassette.		
PLAYBACK				
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION		
<ol> <li>The playback picture does not appear while the tape is running.</li> </ol>	<ul> <li>If you're using the RF 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 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. 6) Perform "Video Channel Set" (IF pg. 40) If you are using the AV connection, set the TV to its AV mode.		
2. Noise appears during visual search.	• This is normal.			
<ol> <li>Noise appears during normal playback.</li> </ol>	<ul> <li>The automatic tracking mode is engaged.</li> </ul>	Try manual tracking (⊑₹ pg. 28).		
<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>	<ul> <li>The video heads may be dirty.</li> </ul>	Use a dry cleaning cassette TCL-2UX or consult your JVC dealer.		
5. Breaks are noticeable in Hi-Fi soundtrack.	<ul> <li>Automatic tracking is engaged.</li> </ul>	Engage and adjust tracking manually (IF pg. 28) or press <b>AUDIO</b> to change the soundtrack to "NORM" (IF pg. 25).		
RECORDING				
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION		
1. Recording cannot be started.	<ul> <li>There is no cassette loaded, or the cassette loaded has had its Record Safety tab removed.</li> </ul>	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" or "F-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 "L-1", "L-2", "SAT" or "F-1".		

		5
<ol> <li>Camcorder recording is not possible.</li> </ol>	<ul> <li>The camcorder has not been properly connected.</li> <li>The input mode is not correct.</li> </ul>	Confirm that the camcorder is properly connected. Set the input mode to "L-1", "L-2", "SAT" or "F-1".
TIMER RECORDING		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
<ol> <li>Timer recording won't work.</li> </ol>	<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>	<ul> <li>The timer is engaged but there's no cassette loaded.</li> </ul>	Load a cassette with the Record Safety tab intact, or cover the hole using adhesive tape.
4. The cassette is automatically ejected, and "O" and "O" on the display panel won't stop blinking.	<ul> <li>The loaded cassette has had its Record Safety tab removed.</li> </ul>	Remove the cassette and cover the hole with adhesive tape, or insert a cassette with the Record Safety tab intact.
5. "O" blinks for 10 seconds and the Timer mode is disengaged.	<ul> <li>As been pressed when there are no programs in memory, or the timer record information has been programmed incorrectly.</li> </ul>	Check the programmed data and re- programme as necessary, then press ② again.
<ol> <li>The cassette is automatically ejected, the power shuts off and "O" and "OO" won't stop blinking.</li> </ol>	<ul> <li>The end of the tape was reached during timer recording.</li> </ul>	The programme may not have been recorded in its entirety. Next time make sure you have enough time on the tape to record the entire programme.
<ol> <li>VIDEO Plus+ does not timer-record properly.</li> </ol>	• The recorder's preset positions have been set incorrectly.	Refer to "Guide Program Number Set" and re-perform the procedure (IFF pg. 39).
OTHER PROBLEMS		
SYMPTOM	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 (r gg. 44).
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.
<ol> <li>No channels are stored in the recorder's memory.</li> </ol>	<ul> <li>The TV aerial cable was not connected to the recorder when Auto Set Up was performed.</li> </ul>	Connect the TV aerial cable to the recorder properly and turn off the recorder power once, then turn the recorder power back on again. The recorder will try Auto Set Up again () p. 6).

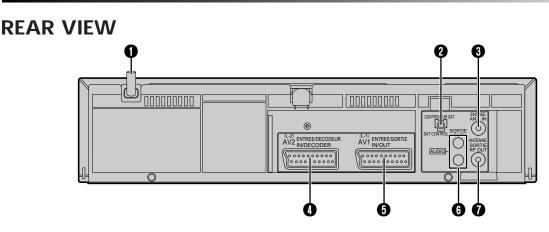
Index FRONT VIEW

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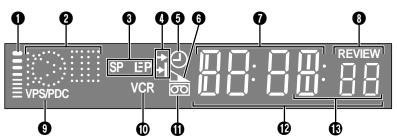
- STANDBY/ON ウ/I Button turns recorder on/off (loading a cassette also turns power on).
- Cassette Loading Slot is where cassette is inserted; door closes, "cassette loaded" indicator lights up on front display panel.
- ③ PLAY Button plays back tape ☞ pg. 12; cancels Pause, Still, Slow, Search modes. ☞ pg. 13
- JOG Dial plays back frame by frame during Still or Play mode. ☞ pg. 13
- SHUTTLE Ring rewinds or fast-forwards tape during Stop mode ☞ pg. 12; performs forward and reverse slow-motion and search during Still or Play mode. ☞ pg. 13
- **OVIDEO Input Connector** enables easy connection of video output from another recorder or camcorder for editing. □ pg. 30
- O AUDIO Input Connector [L] enables easy connection of audio output (mono) from another recorder, camcorder or other source for editing. 
  □ pg. 30
- AUDIO Input Connector [R] enables easy connection of audio output (Hi-Fi) from another recorder, camcorder or other source for editing.
  Image pg. 30

- SAT Button enables/disables the Auto Satellite Prog Rec mode. riangle pg. 27
- SAT④ Indicator lights up during Auto Satellite Prog Rec mode. ☞ pg. 27
- Display Panel provides clear view of various displays and indicators. □ pg. 53
- Infrared Beam Receiving Window is where remote control should be aimed when in use.
- PR +/- Buttons select a preset position.
  If pg. 14
- -:-- (Display) Button switches display between clock time, tape remaining time, counter readings and preset position\*. IF pg. 15
   \* Preset position is not displayed during playback.
- RECORD Button starts regular recording (press once), Instant Timer Recording (press twice); sets duration of ITR. pg. 14, 15
- STOP/EJECT Button stops tape; ejects tape during Stop mode. ☞ pg. 12
- PAUSE Button stops tape temporarily during recording recording recording recording recording recording recording recording recording to the provide the provided the provid



- Mains Power Cord supplies power to recorder.
   Image pg. 5
- SAT CONTROL Connector enables connection of the provided Satellite Controller for timer recording with a satellite receiver. 
  pg. 10
- O AV2 (L-2) IN/DECODER Connector enables connection of satellite receiver, decoder or second recorder; input recordable when "L-2" selected. ☞ pg. 26, 31
- AV1 (L-1) IN/OUT Connector enables AV connection to TV or second recorder; input recordable when "L-1" selected. I pg. 5, 31
- G AUDIO OUT (L/R) Connectors enable connection of audio cassette recorder, TV or second video recorder for dubbing. 
  □ pg. 37

### **DISPLAY PANEL**



● B.E.S.T. Picture System Display lights from bottom to top while B.E.S.T. is active. ☞ pg. 22

### 2 Symbolic Mode Indicators

PLAY: FF/REW VARIABLE SEARCH:	Å	STILL: SLOW:	
		RECORD:	$\bigcirc$
		RECORD PAUSE:	$\bigcirc$

- Tape Speed Indicators display mode of recording; light during Record or Play mode. pp. 14 \* EP is only for NTSC playback.
- Programme Time Indicators show the programme start time (→) and the programme stop time (→) for timer-recording. □ pg. 18

- Channel Display shows preset position where the station currently being received is stored. Clock Display shows current time. IF pg. 8

- ③ Instant REVIEW Indicator blinks after timer-recording and shows how many programmes have been timerrecorded. ☞ pg. 24
- PDC Indicator lights when PDC has been engaged for timer recording. pp. 17, 19
   \* 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. Imp. 12
- Cassette Loaded" Mark lights once a cassette is inserted; remains lit until cassette ejected.
- Counter shows time elapsed since playback or recording began.

With signal displayed, shows time remaining from current tape position to end of tape (r pg. 15). Counter, Preset Position\*, Clock and Tape Remaining Time Display appear alternately when – –:– – (Display) is pressed.

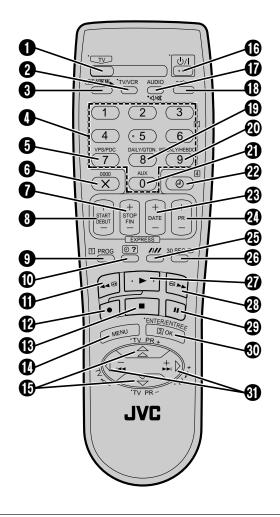
\* Preset Position is not displayed during playback.

Mode shows external input mode selected (L-1, L-2, SAT\* or F-1).

\* When "L-2 SELECT" is set to "SAT" (r pg. 32), "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 JVC TV while holding down the **TV** button.

This remote control transmits A code signals only; it is not applicable to B code signals.

- TV Button enables remote control of connected TV. ☞ "Operating JVC TVs" on page 55
- 2 TV/VCR Button switches connected TV's mode between TV and AV. 
  □ pg. 12 and "Operating JVC TVs" on page 55
- ③ REVIEW Button "reviews" timer-recorded programme. □ pg. 24
- O NUMBER Keys are used in preset position selection ☞ pg. 14, VIDEO Plus+ timer programming ☞ pg. 16.
- PDC Button enables/disables PDC recording. g pg. 17, 19

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

- STOP +/- Button inputs programme Stop Time.
  In pg. 18
- START +/- Button accesses Regular Program screen; inputs programme Start Time. 
  pg. 18
- PROG Button accesses VIDEO Plus+ Program screen. I pg. 16
- ● ? Button accesses Program screens/displays to check the programme that you have pro- grammed (next programme's information screen/display appears each time button is pressed). 
   □ ? pg. 20
- Rewind [REW] Button rewinds tape ; initiates reverse high-speed search. I pg. 12, 13
- Record Button same as button on recorder.
   pg. 14, 15
- Stop Button same as button on recorder.
  IP pg. 12
- MENU Button accesses Menu screen. 1 pg. 9

 Button is used for selection in on-screen menus. 
 r
 r
 gg. 9

TV PR +/- selects the connected TV's/ satellite receiver's channel. I "Operating JVC TVs" on page 55

- **③ STANDBY/ON** 也/I **Button** same as button on recorder.

**⊄/鍒 (TV Muting) Button** mutes sound of connected TV. ☞ "Operating JVC TVs" in the right column.

- --:- (Display) Button switches display between clock time, tape remaining time, counter readings and preset position\*. IF pg. 15
   \* Preset position is not displayed during playback.
- DAILY Button enables timer recording of daily serials. I pg. 17, 19
- WEEKLY Button enables timer recording of weekly serials. I pg. 17, 19
- ④ AUX Button selects recorder's auxiliary input mode. □ pg. 30, 31
- ① (TIMER) Button same as button on recorder. IF pg. 17, 19
- DATE +/- Button inputs date of programme for timer recording. g pg. 18
- PR +/- Button same as button on recorder.
  If pg. 14
- Auto Tracking Button (////) enables/disables auto tracking mode during playback I pg. 28 SP/LP Button selects tape speed. I pg. 14
- 30 SEC Button initiates a 30-second period of fast-motion playback. 
  pg. 24
- Play Button same as button on recorder. pg. 12, 13
- Fast Forward [FF] Button fast-forwards tape; initiates forward high-speed search. g pg. 12, 13
- Pause Button same as button on recorder.
  Image: pg. 13, 14
- OK Button enters selections made in on-screen menus. pg. 9
- ④ ⊲▷ Button initiates functions such as Index Search ☞ pg. 24, variable-speed search, frame by frame playback. ☞ pg. 13

TV ∠ +/- Button controls volume of connected TV. IIF "Operating JVC TVs" in the right column.

### How To Use

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

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

### **Operating JVC TVs**

To operate your TV, while holding down the TV button, press the corresponding button: STANDBY/ON U/I, TV/ VCR, TV PR +/-, TV ∠ +/-, ⊄/☆ (TV Muting).

### NOTES:

- When inserting the batteries, be sure to insert in the correct directions as indicated under the battery cover.
- Depending on the type of JVC TV, there may be cases where some or all functions cannot be operated using the remote control.
- If the remote control doesn't work properly, remove its batteries, wait a short time, replace the batteries and then try again.

### **SPECIFICATIONS**

#### GENERAL

: AC 220 – 240 V $\sim$ , 50/60 Hz
: 19 W
: 4.9 W
: 5°C to 40°C
: –20°C to 60°C
: Horizontal only
: 400 x 94 x 281 mm
: 3.5 kg
: VHS PAL standard
e
: 240 min. with E-240 video
cassette
: 480 min. with E-240 video
cassette

### TUNER/TIMER

TV channel storage	
capacity	: 99 positions
	(+AUX position)
Tuning system	: Frequency synthesized tuner
Channel coverage	: VHF 44.5 – 143/143 – 470 MHz
0	UHF 470 – 862 MHz
Aerial output	: UHF channels 22 – 69
·	(Adjustable)
Memory backup time	: Approx. 10 min.
,	
ACCESSODIES	
ACCESSORIES	
Provided accessories	: RF cable,
	Satellite Controller,
	Infrared remote control unit.
	"AA" battery x 2

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	: 45 dB
Horizontal resolution	: 250 lines
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)

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

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



