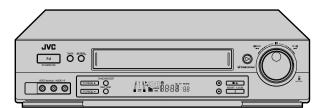
JVC



VIDEO CASSETTE RECORDER

HR-DD865EK





OTIME SCAN





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2

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 p. 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:



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.

WHS HIEL VIDEOPHER

- 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 \circlearrowleft /I button does not completely shut off mains power from the unit, but switches operating current on and off. " \circlearrowleft " 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. <u>DO NOT</u> place heavy objects on the recorder or remote control.
- DO NOT place anything which might spill on top of the recorder or remote control.
- 5. $\underline{\text{AVOID}}$ violent shocks to the recorder during transport.

MOISTURE CONDENSATION

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

ABOUT HEAD CLEANING

Accumulation of dirt and other particles on the video heads may cause the playback picture to become blurred or interrupted. Be sure to contact your nearest JVC dealer if such troubles occur.

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.

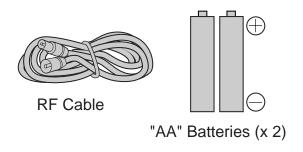
STEP 1

CHECK THE CONTENTS

CHECK ALL THE CONTENTS SHOWN BELOW

Video Cassette Recorder





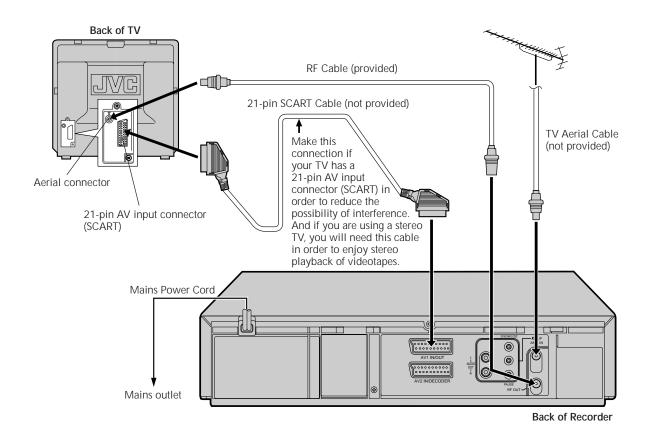


Infrared Remote Control Unit

You are now ready to install your video recorder.

E 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.
- 2– 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 IN/OUT socket on the rear panel of the recorder and the TV's 21-pin 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 ७/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

3 SIEP

AUTO SET UP

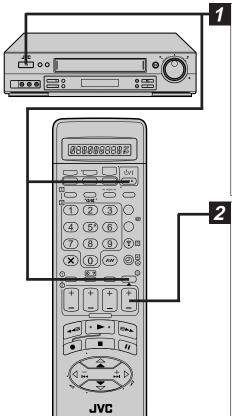
SET THE TUNER CHANNELS, CLOCK, GUIDE PROGRAM NUMBERS AND VIDEO CHANNEL*

The Auto Set Up function sets the tuner channels, clock, VIDEO Plus+ assigned Guide Program numbers and the video channel* automatically the first time the 0/I button on the recorder or on the remote is pressed to turn on the recorder after the mains power cord has been plugged into a mains outlet.

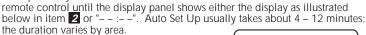
* Useful if you have connected the video recorder to your TV via RF connection (p. p.g. 5). Video Channel (RF output channel) is the channel on which your TV receives picture and sound signals from the video recorder through the RF cable.

Before performing the following procedure, make sure that:

- the TV aerial cable is connected to the recorder.
- the mains power cord is plugged into the mains outlet.
- batteries have been installed in the remote control.

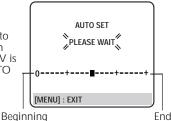


Press U/I. If "Auto" appears on the display panel, press OK or >. "Auto" blinks; do NOT press any button on the recorder or remote control_until the display panel show



• If "--:--" appears on the display panel, refer to page 8.

 If you have connected the video recorder to your TV via both an RF cable and a 21-pin SCART cable (AV connection) and if the TV is turned on and set to its AV mode, the AUTO SET screen will appear.



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

the channel that is shown on the display panel is your Video Channel.

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

Go to item 3

• If you have connected the video recorder to your TV via both an 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. Press **TV PROG** – until the display panel shows "_OUT- –" to set the Video Channel to off.

To view picture signals from the video recorder, set your TV to its AV mode.

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

Go to item 3

Press **OK** to finish Auto Set Up and refer to page 8 to check the results.

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. (13 pg. 55)

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

- Video Channel setting (for RF connection users) 🖙 pg. 46
- Tuner setting 🖙 pg. 48
- Clock setting 🖙 pg. 55

If a new station begins broadcasting in your area, perform tuner setting (\$\mathbb{L} \mathbb{p} \text{ pg. 48}\$) and, if necessary, video channel setting (\$\mathbb{L} \mathbb{p} \text{ pg. 46}\$).

- 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 (pg. 5), you can set the recorder's tuner channels by downloading preset data from your TV instead of using the Auto Set Up function (pg. 6). 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.

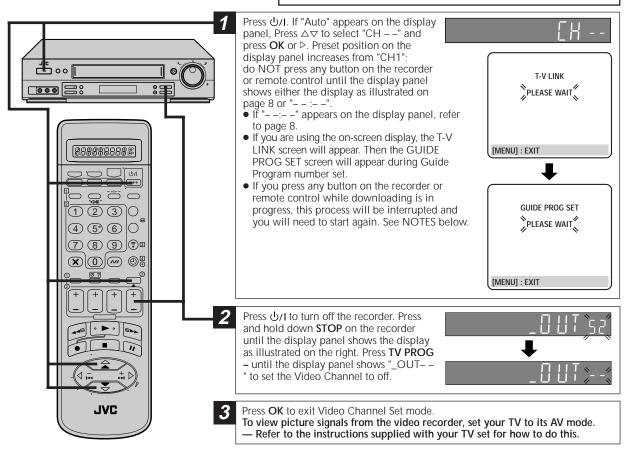
ATTENTION

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 NEXTVIEWLINK via fully-wired 21-pin SCART cable. The degree of compatibility and available functions may differ by system.

Before performing the following procedure, make sure that:

- the TV aerial cable is connected to the recorder and a 21-pin SCART cable is connected between your TV and the recorder.
- the mains power cord is plugged into the mains outlet.
- batteries have been installed in the remote control.



- 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 0/1 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 T-V LINK function, 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 (pp. 52).

Auto Set Up 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 **7** 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 **7** 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 (pp. 14); 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 TV PROG button(s).
 - If station names (ID 🖙 pg. 53) 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 50 52.

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 TV PROG button(s).
 - If station names (ID 🖙 pg. 53) 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 50 52.
- 2 Perform "Clock Set" on page 55.

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

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

- 1 Make sure the TV aerial cable is connected properly to the recorder and turn off the recorder power once, then turn the recorder power back on again.
- 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 (programming).
- Your video recorder memorizes all detected stations even if reception of some of them is poor. In these cases picture quality may be poor. To delete those stations which have an unacceptable picture 🖙 "Delete A Channel" on page 51.
- If any of the above problems occur, refer to pages 50 52 to input station names (☐ "Set Stations") or delete unnecessary stations (☐ "Delete A Channel"). You can also change station preset positions (☐ "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. 46, "Video Channel Set".

If you have any difficulty with the above procedures call the JVC Customer Service Hot Line on 0181 208 7654

T-V Link Functions

When you connect the recorder and your TV via a fully-wired 21-pin SCART cable (pp. 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 NEXTVIEWLINK 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.

1

TURN ON THE RECORDER

Press U/I.

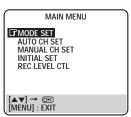
ACCESS MAIN MENU SCREEN

Press **MENU**

2

ACCESS MODE SET SCREEN

Press △▽ to move the highlight bar (pointer) to "MODE SET", then press **OK** or ▷.



4

SELECT DIRECT REC MODE

Press $\triangle \nabla$ to move the highlight bar (pointer) to "DIRECT REC", then press **OK** or \triangleright to set to "ON".



RETURN TO NORMAL SCREEN

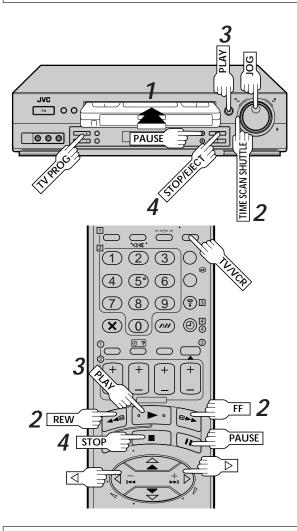
Press **MENU**.

5

- If "DIRECT REC" is set to "OFF", the RECORD button functions as described in "Recording" (c= pg. 12).
- 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.
- Retake function does not work during Direct Rec (F pg. 44).
- 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 12.

Playback

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

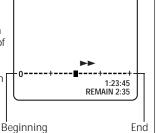


Tape Position Indicator

The tape position indicator appears on screen when, from the Stop mode, you press FF, REW or perform an Index Search. The position of "■" in relation to "0" (beginning) or "+" (end)

(beginning) or "+" (end) shows you where you are on the tape.

"O.S.D." (F pg. 41) must be set to "ON", or the indicator will not appear.



NOTE:

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

The easiest, most basic operation possible with your video recorder is tape playback. Already-recorded signals on a video tape are read by your video recorder and displayed on your TV just like a TV programme.

1

LOAD A CASSETTE

Make sure the window side is up, the rear label side is facing you and the arrow on the front of the cassette is point toward the recorder. Don't apply too much pressure when inserting.

- The recorder power comes on automatically and the counter is reset to 0:00:00.
- If the record safety tab has been removed, playback begins automatically.

FIND PROGRAMME START POINT

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

START PLAYBACK

Press PLAY. "BEST" appears blinking in the recorder's display panel during automatic tracking (

pg. 20).

 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.

INFORMATION

When using the AV connection (Fig. 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 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.

Still Picture/Frame-By-Frame Playback

1

PAUSE DURING PLAYBACK

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

- During still picture, the sound from the previous 3 seconds (approx.) will be played back repeatedly (provided there was at least 6 seconds of normal playback prior to engaging the still picture mode).
- "TIME SCAN AUDIO" must be set to "ON", or the sound will not be heard. (□ pq. 25)

ACTIVATE FRAME-BY-FRAME PLAYBACK

2

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

OR

Press PAUSE.

OR

Press ⊲ or ▷.

To resume normal playback, press PLAY.

Slow Motion

1

ACTIVATE SLOW-MOTION PLAYBACK

Turn the **TIME SCAN SHUTTLE** ring to the left or press during playback to decrease speed in the forward direction. To play in reverse slow-motion (and in reverse play mode), continue to turn the **TIME SCAN SHUTTLE** ring to the left or press dafter selecting all the forward direction slow-motion modes.

OR

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

OR

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

OR

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

To resume normal playback, press PLAY.

High-Speed (Turbo) Search



ACTIVATE HIGH-SPEED SEARCH

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

To resume normal playback, press PLAY.

NOTE:

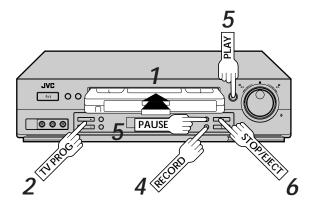
For short searches, press and hold **FF** or **REW** during playback or still picture. When released, normal playback resumes.

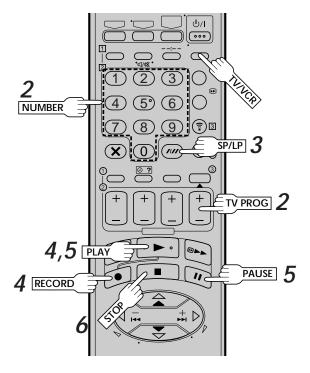
ATTENTION

- 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.
- When normal playback resumes from search, still, slow motion or frame-by-frame playback, the picture may jitter vertically momentarily depending on the type of TV being used.

Recording

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





INFORMATION

When using the AV connection (Fig. 5), you can switch between TV mode and AV mode by pressing TV/VCR.

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

Recording Resume Function

If there is a power 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 TV PROG +/- or the 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

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

START RECORDING

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

B.E.S.T. takes place at the beginning of both the first SP and the first LP recording after inserting the cassette (r pg. 20).

If "DIRECT REC" is set to "ON", the programme that appears on the TV screen will be recorded (F 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.

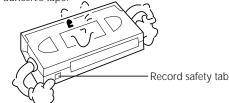
• During the Record Pause mode, you can change the preset by pressing the TV PROG +/- buttons or the **NUMBER** keys.

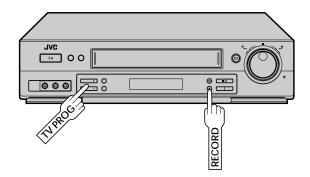
STOP RECORDING

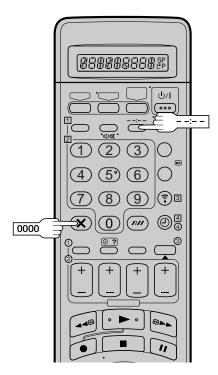
Press STOP on the remote control or STOP/EJECT on the recorder. Then press STOP/EJECT to remove the cassette.

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 " displayed.
- 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

SELECT PRESET TO WATCH

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 TV PROG buttons is recorded on the

Elapsed Recording Time Indication

You can check the exact time of a recording.

SET COUNTER DISPLAY

Press - -:- - until a counter reading appears on the dispay panel.

RESET COUNTER

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

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

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.

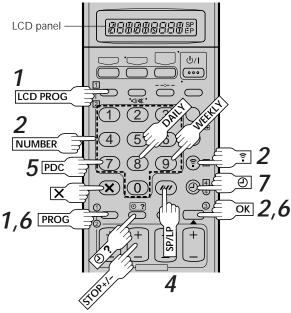
NOTE:

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

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).



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

1

Access video Plus+ Display

Press LCD PROG.

The LCD panel looks like this:



2

ENTER PLUSCODE NUMBER

Press the **NUMBER** keys to enter the PlusCode number of a programme you wish to record, then press ?

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

The PlusCode number you enter appears on the LCD panel:

12345578

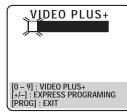
Then go to step 3 in the right column.

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

1

ACCESS VIDEO PLUS+ SCREEN

Press **PROG**



The front display panel looks like this:

ENTER PLUSCODE NUMBER
Press the NUMBER keys to Company

enter the PlusCode number of the programme you wish to record, then press **OK**.

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



The PlusCode number you enter appears on the front display panel:

1234

The display panel shows only a 4-digit number.

ACCESS VIDEO PLUS+ PROGRAM SCREEN

The VIDEO Plus+ Program screen appears (if you're just starting out, "P1" appears).

The display panel shows the programme start time.

Pressing ② ? changes the display to the programme stop time, then the date and preset position.



IMPORTANT

Make sure the preset position number you wish to record is displayed; if not, see "VIDEO Plus+ Setup" on page 56 and set the Guide Program number for that PlusCode number correctly.

- If the number you entered is invalid, "ERROR" appears on the screen and "Err" appears on the display panel.
 Press X and input a valid PlusCode number.
- If the "GUIDE PROG SET" screen appears, see "ATTENTION – Regarding Guide Program Number Set" on page 15.

4

5

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/

If "VPS/PDC OFF" is displayed on the screen or "VPS/PDC" is not lit on the display panel, PDC is set to OFF.

"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.

• Repeat steps 1 – 6 for each additional programme.

ENGAGE RECORDER'S TIMER MODE

Press ② (TIMER). The recorder turns off automatically and ② appears on the display panel.

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

NOTES:

- To Change The Stop Time . . .
 - ... press STOP +/- in step 3. You can compensate for anticipated programme schedule delays this way.
- To Timer-Record Weekly Or Daily Serials . . .
- ... in step 3, press WEEKLY (NUMBER key "9") for weekly serials or DAILY (NUMBER key "8") for daily serials (Monday Friday). Either "WEEKLY" or "DAILY" appears on the screen. Pressing the button again makes the corresponding indication disappear.
- You can programme this recorder to timer-record as many as 8
 programmes. If you try to programme the recorder to record a
 ninth, "PROGRAM FULL" appears on screen and "FULL"
 appears on the front display panel. To record the extra
 programme, you must first cancel any unnecessary
 programmes (= pg. 18).
- It is not possible to timer-record a TV programme with a PlusCode number which starts with "0".

Satellite Receiver Users

- To timer-record a satellite broadcast using VIDEO Plus+:
- □ Perform steps 1 7.
- 2 Set the sate lite receiver to the appropriate channel before the selected programme begins.
- 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.

 Press the NUMBER keys or △∇ to input the preset position number on which your recorder receives that station, then press OK or ▷ to set the Guide Program Number. The VIDEO Plus+ Program screen appears.



(Ex.) To timer-record a BBC2 programme with VIDEO Plus+.

* If your recorder receives BBC2 on the preset position 2, press **OK** or ▷ after entering "2".

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.

PDC Recording

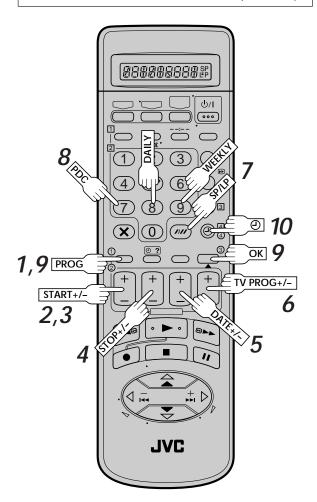
Now available from some TV stations, PDC (Programme Delivery Control) is a service designed to assure safe, accurate timer recording. With this system, special code signals are transmitted together with the audio/video signals. These code signals control your video recorder and have precedence over the 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 only in a very few 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 (EFF step 5 above).

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

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).



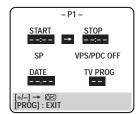
If you don't know the PlusCode number for the programme you wish to record, use the following procedure to set your recorder to timer-record the programme.

ACCESS VIDEO PLUS+ SCRFFN

Press PROG.

ACCESS PROGRAMME SCREEN

Press **START** +/-. (If you're just starting out, "P1" appears.)



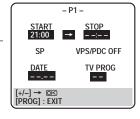
The front display panel looks like this:



ENTER PROGRAMME START TIME

Press START +/- to enter the time you want recording to start.

 Press and hold START +/- to move in 30minute increments, or press and release repeatedly to move 1 minute at a time.



The front display panel looks like this:



ENTER PROGRAMME STOP TIME

Press STOP +/- to enter the time you want recording to stop.

 Press and hold STOP +/- to move in 30-minute increments, or press and release repeatedly to move 1 minute at a time.

ENTER PROGRAMME DATE

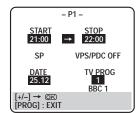
Press **DATE** +/- to enter the date on which you wish to record. (The current date first appears on screen. The date you enter will appear in its place.)

5

6

ENTER PRESET POSITION

Press TV PROG +/- to enter the preset position corresponding to the broadcasting station you wish to record.



7

SET TAPE SPEED

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

8

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.

"F" "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.

• Repeat steps 1 - 9 for each additional programme.

ENGAGE RECORDER'S TIMER MODE

10

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

• To disengage the timer, press ② (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 (pg. 18).

Satellite Receiver Users

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

- Perform steps 1 10. Enter "L-2" for the preset position in step 6.
- 2 Set the satellite receiver to the appropriate channel before the selected programme begins.
- 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 only in a very few 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. (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 IN/DECODER on your recorder.
- PDC recording is also possible via the AV1 IN/OUT connector.

Timer Warning

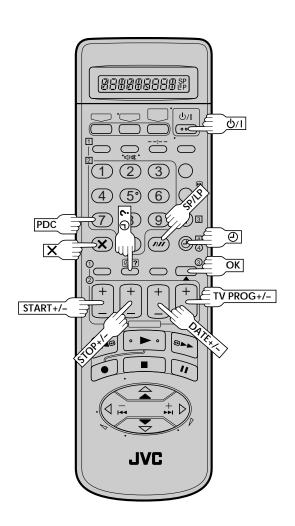
If you have programmed your recorder to timer-record a programme or a series of programmes, a warning appears on the screen to tell you that the recording is due to start in 5 minutes.

- WARNING-TIMER RECORDING TO START SOON [22]

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.

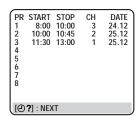


Check, Cancel And Replace Programmes

DISENGAGE TIMER MODE
Press ②, then press ①/I.

ACCESS PROGRAMME CHECK SCREEN/DISPLAY

Press (2) ?.



P IPR

ACCESS PROGRAMME SCREEN/ DISPLAY

Press ② ? again to check more information. Each time you press ② ?, the next programme's information appears.





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 repl

RETURN TO NORMAL SCREEN/ DISPLAY

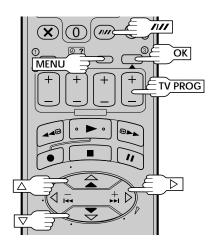
Press ② ? as many times as necessary. If there are still some programmes to be recorded, go on to step 6.

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 Fig. 42) or the recorder is in the Timer mode; however, it is not possible to cancel or replace the programmes.

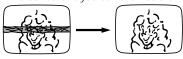
Playback Picture Adjustment



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 TV PROG buttons.



OVERRIDE AUTOMATIC **TRACKING**

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

ADJUST TRACKING MANUALLY

Press TV PROG + or - to adjust tracking.

RETURN TO AUTOMATIC TRACKING

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

NOTE:

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

Picture Control

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

ACCESS MAIN MENU SCREEN

Press **MENU**

ACCESS MODE SET SCRFFN

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

SELECT PICTURE CONTROL **SET MODE**

MODE SET

ON AUTO

ON

OFF OFF

B. E. S. T.

SPICTURE CONTROL
AUTO TIMER

AUTO SP→LP TIMER POWER SAVE

DIRECT REC

NEXT PAGE

[▲▼] → OK [MENU] : EXIT

0 S D

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

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

AUTO.

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:

EDIT:

- · 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.

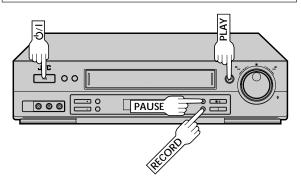
RETURN TO NORMAL **SCREEN**

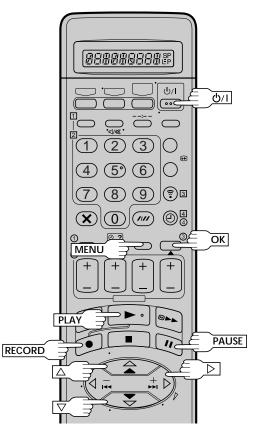
Press **MENU**

- 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 35.

Playback/ Recording According To Tape Characteristics

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





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".

1

TURN ON THE RECORDER

Press U/I.

ACCESS MAIN MENU SCREEN

Press MENU.

ACCESS MODE SET SCREEN

Press △▽ to move the highlight bar (pointer) to "MODE SET", then press **OK** or ▷.

MAIN MENU

IF MODE SET

AUTO CH SET

MANUAL CH SET

INITIAL SET

REC LEVEL CTL

[A▼] → S

[MENU] : EXIT

SELECT B.E.S.T. MODE

Press △▽ to move the highlight bar (pointer) to "B.E.S.T.", then press **OK** or ▷ to set to "ON" or "OFF".

MODE SET

| B.E.S.T. ON |
| PICTURE CONTROL AUTO AUTO TIMER OFF O. S. D. ON DIRECT REC ON AUTO SP—LP TIMER OFF POWER SAVE OFF NEXT PAGE |
| A | P | ES| |
| MENU] : EXIT

RETURN TO NORMAL SCREEN

Press **MENU**.

5

Recording

1

START RECORDING

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

DURING B.E.S.T.





B.E.S.T. COMPLETE



 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 (□ pg. 28).
- 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 (pg. 13).

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:

- 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 20.

Playback

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

1

START PLAYBACK

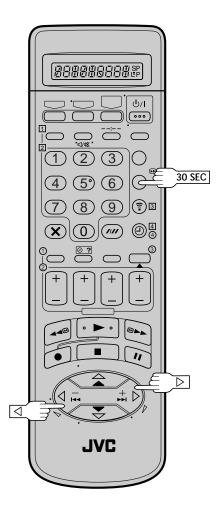
Press **PLAY**



- The recorder adjusts the playback picture quality based on the quality of the tape in use.
- B.E.S.T. is active during Auto Tracking. "BEST" appears blinking on the recorder's display panel.

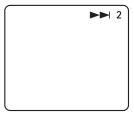
- When watching a tape recorded with "B.E.S.T." set to "ON", it is recommended that you leave B.E.S.T. on during playback as well.
- When watching a rental tape or one recorded on another video recorder, or when using this recorder as the player for editing, set B.E.S.T. to your preference by performing steps 1 through 5 on page 20.
- "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



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.



NOTES:

- Before starting, make sure the recorder is in the Stop mode.
- If "O.S.D." is set to "ON"
 (□ pg. 41), "MARK" blinks on the screen while an index code is being marked.

ACTIVATE INDEX SEARCH

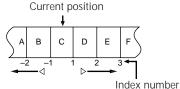
Press \triangleleft or \triangleright (I \blacktriangleleft or \triangleright \blacktriangleleft). "I \blacktriangleleft 1" or " \triangleright \blacktriangleleft 1" is displayed on screen and search begins in the corresponding direction.

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.



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

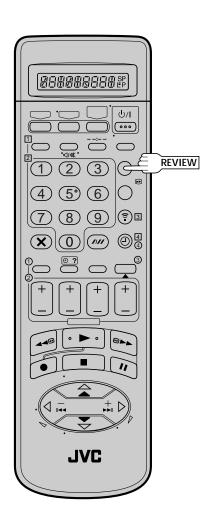
Skip Search

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.



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.

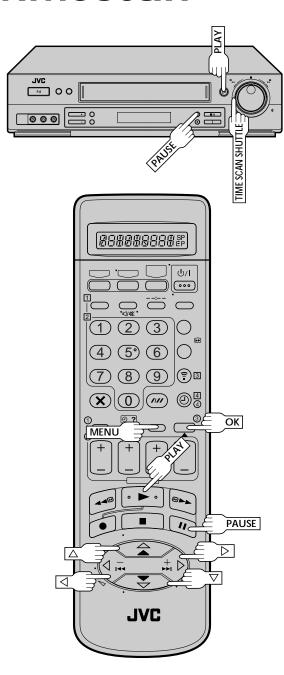
ACTIVATE INSTANT REVIEW

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.

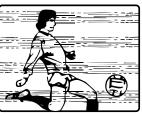
- Instant ReView is not possible while the recorder is in the Timer mode.
- The number of recorded programmes will not be displayed on the front display panel after Auto Satellite Prog recording (c pg. 28).

TimeScan



Your recorder is equipped with the TimeScan function. TimeScan allows noise free pictures to be displayed on your TV screen in the forward and reverse search modes. Audio will be played back at normal speed during the TimeScan modes (pp. 25). TimeScan also allows you to view a programme in search mode while listening to the audio.

Normal recorder



Recorder with TimeScan



Visible

Noiseless

NOTES:

- The "TIME SCAN AUDIO" must be set to "ON", or the sound will not be heard in TimeScan mode.
- The default setting for TimeScan audio is ON. (☐ pg. 25)
- The audio will not synchronize with the video in TimeScan modes.
- In Pause mode 3 seconds (approx.) of audio will be played back repeatedly. (pq. 11)
- In TimeScan search modes some of the audio information will not be played so that the audio can keep up with the video.

Audio signal during TimeScan

Playback tape



Sound of ①, ③ and ⑤ is heard. Sound of ② and ④ is not heard.

Output audio signal is normal (monaural) sound.

Variable-Speed Search/ Reverse Play

ACTIVATE VARIABLE-SPEED SEARCH

1

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

(Refer to the chart on page 25 for playback speeds).

OR

During playback, press \triangleleft or \triangleright .

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

(Refer to the chart on page 25 for playback speeds).

To resume normal playback, press PLAY.

TimeScan

Names of Reverse				Forward						
special-effects playback	Search	Play	Slow-l	Motion	*Sti	ill	Slow-N	otion	Play	Search
Speed SP	-9x -7x -5x -3x	-1x	-1/6x	 -1/18x 	0		1/18x	1/6x	1x	2x 3x 5x 7x 9x
Speed LP	-7x -3x		-1/6x	 ı -1/18x	0		1/18x	1/6x	1x	2x
Audio output	Audio is outp	ut.		is not put.	Audi outp		Audio outr		Au	dio is output.

^{*} To activate the Still mode from the remote control press **PAUSE** button. Still mode cannot be engaged using the remote control's ⊲ ⊳ button.

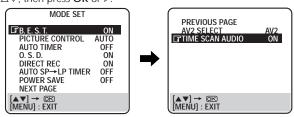
- Noise tends to appear at -9x or 9x normal speed during TimeScan search. If noise appears or the picture is distorted, press //// and adjust tracking with TV PROG + or button. When the playback speed is changed, adjust tracking again.
- The speed is shown during TimeScan in the upper right corner of the TV screen for approx. 5 seconds. (On some TVs the display may be distorted.)
- To resume normal playback, press **PLAY**.
- When using the recorder's **TIME SCAN SHUTTLE** ring, the playback speed may not change in the correct step if it is turned too fast
- Picture and audio may occasionally become distorted when the recording speed changes. If this happens, resume normal playback once, and then try using TimeScan again.
- The picture may be noisy or there may be a loss of colour when you change the playback speed. (More noise will appear with LP recordings.)
- Noise may appear or the upper part of the picture may be distorted during still, frame-by-frame playback, 2x search of LP recordings, or with certain tapes.
- Picture may appear distorted in comparison to normal playback.
- When normal playback resumes from search (including TimeScan), still, slow motion or frame-by-frame playback, the picture may jitter vertically momentarily depending on the type of TV being used.
- Depending on the tape in use, noise may appear or the upper part of the picture may be distorted.
- In TimeScan mode there will be a time lag between the video and the audio and noise may appear in the audio signal.
- TimeScan sound quality will differ in comparison to normal playback.
- When material such as music videos where there is non-stop sound (very few breaks in the soundtrack) are viewed at 2x normal speed, the audio playback may be faster than normal.
- When the playback direction is reversed, it takes approximately 6 seconds until sound is heard.
- TimeScan does not work with NTSC playback.

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

TimeScan Audio

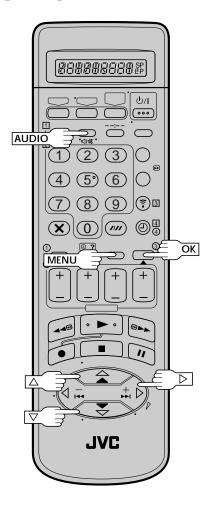
The audio output can be set ON/OFF during TimeScan. Select ON/OFF as required.

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



4 Press **MENU** to return to the normal screen.

Selecting The Sound You Want



Hi-Fi Audio Recording LEVEL Control

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

1

ACCESS MAIN MENU SCREEN

Press MENU.

ACCESS HI-FI REC LEVEL CONTROL SCREEN

Press △▽ to move the highlight bar (pointer) to "REC LEVEL CTL", then press **OK** or ▷.

ADJUST AUDIO RECORDING LEVEL

Press \triangle or ∇ .



- Press △ or ▽ briefly 5 times to move the on-screen's audio levels by one division on the scale. To move the audio levels faster, keep △ or ▽ pressed.
- Adjust the recording level while watching the recorder's audio level meters. Set the level so that maximum volume causes the meters to vary between 0dB to 4dB.

RETURN TO NORMAL SCREEN

4

Press **MENU**.

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

Receiving NICAM Stereo And Bilingual Programmes

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

When the recorder is tuned to a different station, the type of broadcast being received will be displayed on the TV screen for a few seconds.

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

- To listen to a stereo programme, press AUDIO until ""□" and ""□" appear on the front display panel or "HI FI L ["> □ □ □ R" appears on the screen.
- To listen to a bilingual programme, press **AUDIO** until either ""D" or ""d" appears on the front display panel or "HI FI L ["b"" or "HI FI d¶ 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. 41).

Soundtrack Selection

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

During Playback

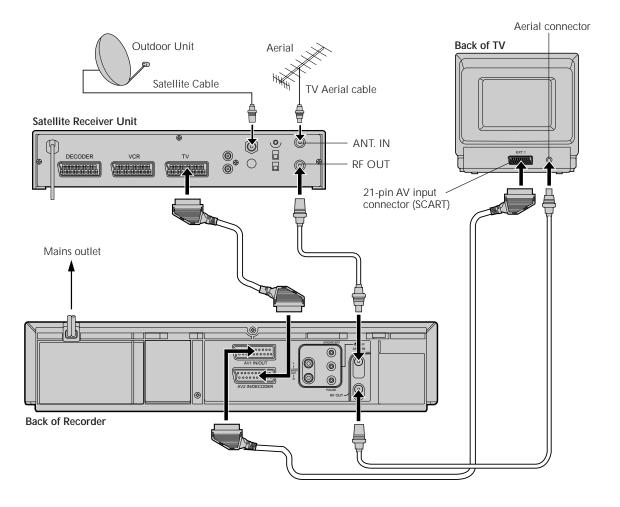
Pressing AUDIO on the remote control changes the soundtrack being played back as follows:

TRA	ICK	USE	
Recorder's Front Panel	On-Screen Display		
	HIFI L Dr ad R	For Hi-Fi stereo tapes	
A	HIFI L (þ	For main audio of Bilingual tapes	
U	HIFI ⊄¶R	For sub audio of Bilingual tapes	
NORM	NORM	For audio-dubbed tapes	
🗅 + 🗹 + NORM HI FI NORM		For audio-dubbed tapes	

- "□ + □" 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 (□ pg. 41).

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 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 IN/DECODER connector, and when there is no input signals the recorder stops recording and the power shuts off.

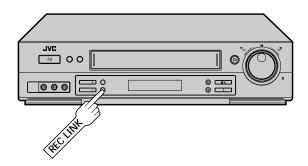


IMPORTANT

When you set "AV2 SELECT" to "SAT" (pg. 36), it is possible to view a satellite broadcast with the TV set to its AV mode even if the recorder is in Timer mode, in Stop mode, recording or 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.

NOTE:

Refer to the instructions supplied with your satellite receiver.



ATTENTION

- Be sure not to turn on the satellite receiver before the programme is executed; otherwise, the recorder will start recording when the satellite receiver's power is turned on.
- If you have connected another appliance other than a satellite receiver to the AV2 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 REC LINK button to engage the Auto Satellite Prog Rec mode, if the REC LINK button does not light but instead blinks quickly even though your satellite 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" (F) pg. 16) to timer-record a satellite programme.

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

Before performing the following steps:

- Make sure the satellite receiver is connected to the recorder's AV2 IN/DECODER connector. (IF) pg. 28)
- Programme the timer on the satellite receiver.
- Insert a cassette with the safety tab in place.

1

ACCESS MAIN MENU SCREEN

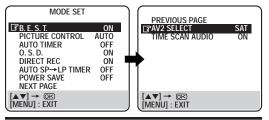
Press **MENU**.

ACCESS MODE SET SCREEN Move the highlight bar (pointer) to "MODE SE

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

SELECT AV2 SELECT MODE

Move the highlight bar (pointer) to "AV2 SELECT", by pressing △▽, then press **OK** or ▷ to set to "SAT".



SET TAPE SPEED

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

7

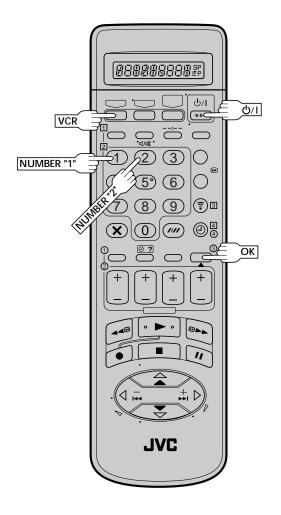
ENGAGE AUTO SATELLITE PROG REC MODE

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

- To disengage the Auto Satellite Prog Rec mode, press REC LINK. The light 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 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 (pp. 23).
- 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 REC LINK button blinks while Auto Satellite Prog recording is in progress.
- Pressing the recorder's U/I button while Auto Satellite Prog recording is in progress turns off the recorder's power and disengages
 the Auto Satellite Prog Rec mode.
- If there is more than one satellite programme you wish to record with Auto Satellite Prog Recording, it is not possible to set a
 different tape speed for each; the tape speed selected in step 4 will apply to all the programmes for Auto Satellite Prog recording.
- The B.E.S.T. system (pg. 20) does not work while Auto Satellite Progrecording is in progress.
- Just Clock (pg. 55) 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 REC LINK button 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 IN/DECODER connector.

Remote Control Functions



Remote A/B Code Switching

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

1

REMOVE POWER SUPPLY

Unplug the mains power cord from the mains outlet.

SET REMOTE CONTROL CODE

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

RE-SUPPLY POWER

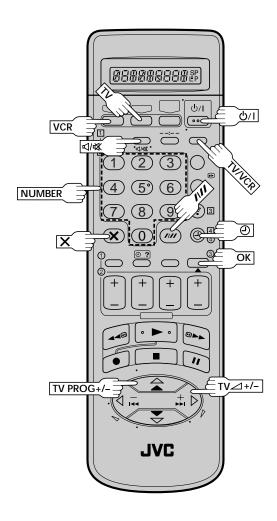
Plug the mains power cord back into the mains outlet.

TURN THE RECORDER ON

Press 0/1 on the remote control. The recorder will now only respond to B code signals.

NOTE:

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



TV Multi-brand Remote Control

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

Before you start . . .

• Turn off the TV using its remote control.

SET TV BRAND CODE

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

Check if the TV's power goes on as it should. If it does, try other operations (results step 2).

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

OPFRATE TV

First, press TV to set the remote control to TV mode, then press the corresponding button: ປ/I, TV PROG +/-, TV/VCR, TV △ +/- (Volume), ◄/♦★ (Muting), NUMBER keys.

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

IMPORTANT

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

Control Your TV Using Additional Buttons

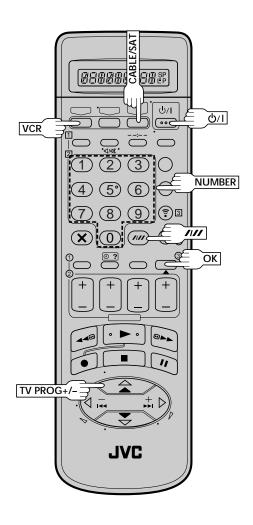
Use the **NUMBER** keys, and the **////** button, × button or ⊕ button to select the TV's channel.

- With televisions under Code 01, 02, 07, 10, 11, 14, 20, 23, 24, 25, 27, 33 or 35, the /// button corresponds to the 1-digit/2-digit entry switching button (often labelled /– –) of your TV's remote control.
- With televisions under Code 01, 28, 29 or 34, the X button corresponds to the 10 + button, and the ⊕ button corresponds to the 20 + button of your TV's remote control.

NOTE:

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

TV BRAND NAME	CODE
TV BRAND NAME JVC BLAUPUNKT BRANDT FERGUSON FINLUX FUNAI LG/GOLDSTAR GRAETZ GRUNDIG HITACHI ITT LUXOR MITSUBISHI MIVAR NEC NOKIA NORDMENDE	CODE 01, 23, 24, 25 19 26 27 30 32 18 28 19 10 28 29 20 31 26
NORDMENDE PANASONIC PHILIPS SABA SALORA SALORA SELECO SHARP SONY TELEAVIA TELEFUNKEN THOMSON TOSHIBA	26 11 02 26 28 02, 12, 33, 34, 35 28 06 07 26 26 26



Satellite Receiver Multi-Brand Remote Control

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

Before you start . . .

• Turn off the satellite receiver using its remote control.

SET SATELLITE RECEIVER BRAND CODE

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

Check if the satellite receiver's power goes on as it should. If it does, try other operations (🖅 step 2).

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

OPERATE SATELLITE RECEIVER

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

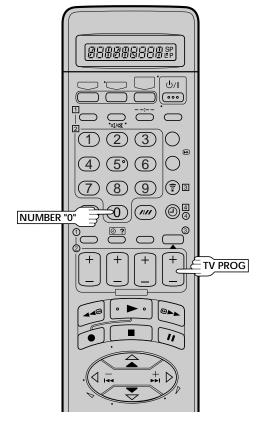
- For VIDEOWAY or some brands of satellite receiver, you must press //// after having pressed the NUMBER keys.
- The NUMBER buttons may not function with some satellite receivers.
- To return the remote to video recorder control, press VCR.

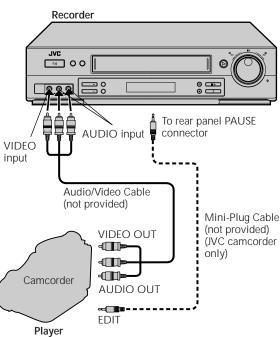
IMPORTANT

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

SATELLITE TUNER BRAND	CODE
JVC	72, 73
AMSTRAD	60, 61, 62, 63
BT	72
CANAL +	81
FINLUX	68
GRUNDIG	64, 65
HIRSCHMANN	64
ITT	68
JERROLD	75
KATHREIN	70, 71
LUXOR	68
MASPRO	70
NOKIA	68
PACE	65, 67
PANASONIC	74
PHILIPS	66
RFT	69
SALORA	68
SIEMENS	64
SKYMASTER	69
VIDEOWAY	76
WISI	64

Edit From A Camcorder





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

MAKE CONNECTIONS

Connect the camcorder's AUDIO/VIDEO OUT connectors to the recorder's 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.
- When a Master Edit Control-equipped JVC camcorder is used, the camcorder is capable of controlling the recorder. Refer to the camcorder's instruction manual for operating procedure.

SET RECORDER'S INPUT MODE

Press NUMBER key "0" and/or TV PROG so that "F-1" appears in place of a preset position number.

SET EDIT MODE

See "Picture Control" on page 19.

START CAMCORDER

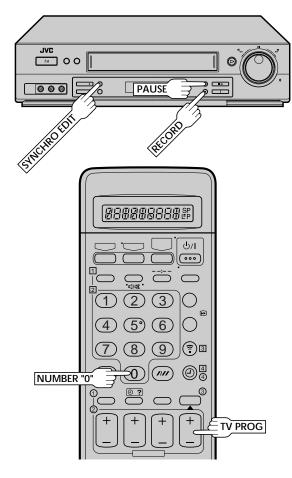
Engage its Play mode.

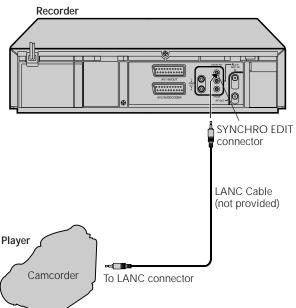
START RECORDER

Engage its Record mode.

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

Synchro Editing





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

MAKE CONNECTIONS

Connect your recorder to camcorder (graph pg. 33), and connect your recorder's SYNCHRO EDIT connector to the camcorder's LANC connector.

SET RECORDER'S INPUT **MODE**

Press NUMBER key "0" and/or TV PROG so that "F-1" appears in place of a preset position number.

SET EDIT MODE

See "Picture Control" on page 19.

LOCATE START POINT

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

START SYNCHRO EDITING

Press SYNCHRO EDIT.

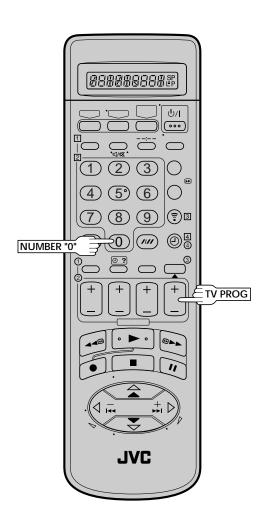
PAUSE SYNCHRO EDITING

Press SYNCHRO EDIT again.

Repeat steps 4 – 6 as necessary.

- The Synchro Edit function may not work with the initial part of a camcorder tape.
- The Synchro Edit function cannot be used when using the JLIP function. (Pressing SYNCHRO EDIT cancels the JLIP function.)
- The Synchro Editing function may not work properly with some type of 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



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

MAKE CONNECTIONS

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

- A When Using Your Video Recorder As The Source Plaver ...
 - ... connect its AV1 IN/OUT connector to the recording deck.
- **B** When Using Your Video Recorder As The Recording Deck ...
 - ... connect its AV2 IN/DECODER or AV1 IN/OUT connector to the source player.

SET RECORDING DECK'S **INPUT MODE**

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

SET EDIT MODE

See "Picture Control" on page 19.

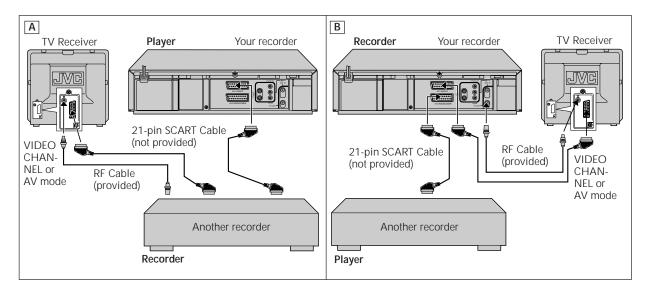
START SOURCE PLAYER

Engage its Play mode.

START RECORDING DECK

Engage its Record mode.

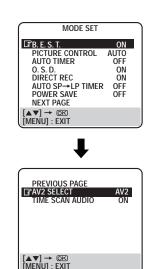
- All necessary cables can be obtained from your dealer.
- When you select EDIT to dub tapes in step 3, be sure to select AUTO (or NORM when B.E.S.T. is set to OFF) after you finish dubbing the tapes.
- When you use this recorder as the player for editing, be sure to set "O.S.D." to "OFF" before starting (pg. 41).



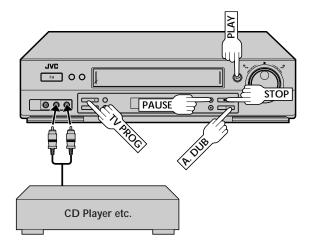
AV2 SELECT Setting

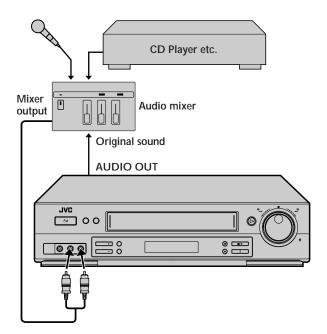
Set "AV2 SELECT" to the appropriate mode depending on the type of unit connected to the rear panel AV2 IN/DECODER connector of this recorder.

- 1 Press **MENU** to access the Main Menu screen.
- Press $\triangle \nabla$ to move the highlight bar (pointer) to "MODE SET", then press **OK** or \triangleright .
- 3 Press △▽ to move the highlight bar (pointer) to "AV2 SELECT".
- 4 Press **OK** or ▷ to select "AV2", "DECODER" or "SAT".
 - **a–**AV2 : To use this recorder as the recording deck with the player connected to the
 - AV2 IN/DECODER connector, or to use the satellite receiver connected to the AV2 IN/DECODER connector.
 - **b–**DECODER: To use a decoder connected to the AV2 IN/DECODER connector.
 - $\hbox{{\it c-SAT}} \qquad : \hbox{To view a satellite programme with the TV set while the recorder is in Timer}$
 - mode, in Stop mode, recording or turned off. (F pg. 28)
- 5 Press **MENU** to return to normal screen.
- If you have a satellite receiver or a decoder connected to the AV2 IN/DECODER connector, be sure to set "AV2 SELECT" back to appropriate mode after editing.
- If you're not connecting a satellite receiver or a decoder to the AV2 IN/DECODER connector, leave "AV2 SELECT" set to "AV2".
- The default setting is "AV2"; if the recorder's memory backup has expired due to a power cut or because the AC was removed from the recorder, "AV2" 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 "AV2 SELECT" back to appropriate mode.



Audio Dubbing

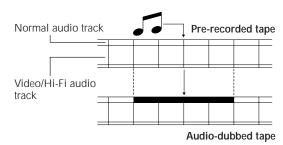




NOTES:

- When monitoring the sound during Audio Dubbing, the normal soundtrack is automatically selected. If you wish to hear the mixed sound (Hi-Fi + Normal soundtracks), press AUDIO on the remote control to select '□ + □ (L+R) + NORM" (□ pg. 27).
- Audio dubbing stops automatically when the counter reaches "0:00:00", and the recorder enters the Play mode. Check the counter reading before dubbing.
- Audio dubbing is also possible using the rear panel AV1 IN/OUT or AV2 IN/DECODER connector. When using these connectors, make sure to select the correct input mode in step 2.
- Audio dubbing cannot be performed on a cassette that has had its record safety tab removed.
- When playing back an audio-dubbed tape, press AUDIO on the remote control to select the soundtrack you wish to hear (sp. 27).

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



1

MAKE CONNECTIONS

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

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

SET INPUT MODE

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

LOCATE START POINT

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

ENGAGE AUDIO DUBBING

Press A. DUB.

- It is possible to take the original sound recorded on the tape in your recorder and mix it with other sounds from a microphone, CD player etc. To perform this audio dubbing with audio mixing, connect as in the diagram on the left.
- Your recorder enters the Audio Dubbing Pause mode.
 " blinks, " and " light up on the front display panel.)
- To perform audio dubbing with audio mixing, press AUDIO on the remote control to select "□ + ◄ (L+R)" at this point.
 - Audio dubbing with audio mixing is not possible if you're using a monaural audio component, or if you don't have an audio mixer.

Start Dubbing

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

- "O" blinks and "O" is displayed on the front display
- To stop dubbing temporarily, press PAUSE. Press PLAY to resume dubbing.

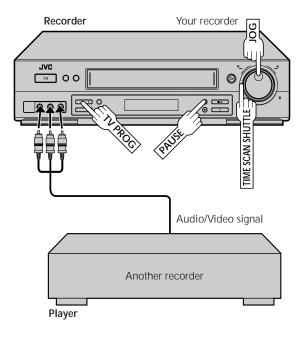
END AUDIO DUBBING

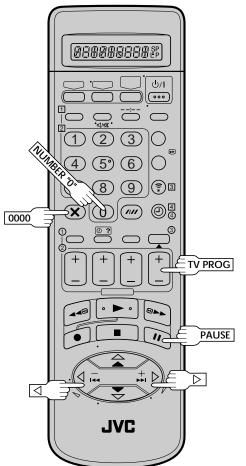
Press **STOP** to stop the tape in your recorder, and engage the audio component's Stop mode.

6

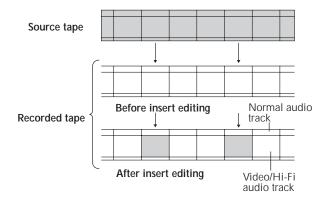
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Insert Editing





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



MAKE CONNECTIONS

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

SET INPUT MODE

Press **NUMBER** key "0" and/or **TV PROG** so that "F-1" appears in place of a channel number.

LOCATE END POINT

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

RESET THE COUNTER

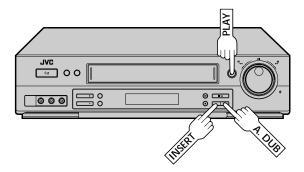
Press 0000 to change the counter display to "0:00:00".

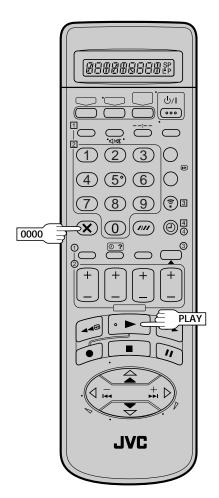
LOCATE START POINT

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

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

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ENGAGE INSERT EDITING

Press INSERT.

Your recorder enters the Insert-Pause mode. ("\", "\"," and "\" ight up on the front display panel.)

 The TV screen changes from the still picture to the input source you are going to record.

START EDITING

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

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

END INSERT EDITING

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

FOR AV INSERT EDITING

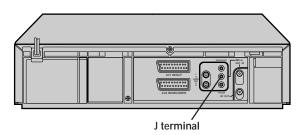
If you want to replace the picture, Hi-Fi audio soundtrack and normal audio soundtrack all at the same time...

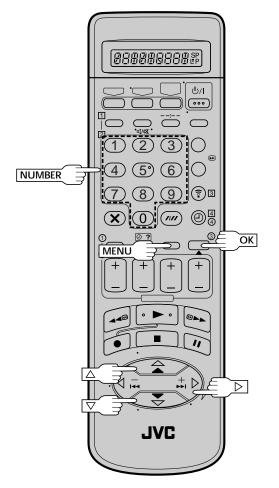
... In step **6** above, after you press **INSERT**, press **A. DUB** also. (")" and ">" blink and "|||" lights up on the front display panel.)

NOTES:

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

Information On J Terminal





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

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

Examples:

With the optional JLIP VIDEO CAPTURE BOX GV-CB3E:

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

For further details consult your nearest JVC dealer.

JLIP ID Number

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

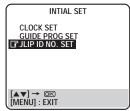
ACCESS MAIN MENU SCREEN Press MENU.

ACCESS INITIAL SET SCREEN

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

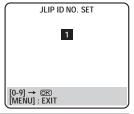
ACCESS JLIP ID NO. SET SCREEN

Press △▽ and move the highlight bar (pointer) to "JLIP ID NO. SET", then press **OK** or ▷.



SET JLIP ID NUMBER

Press **NUMBER** keys to enter the desired ID number.

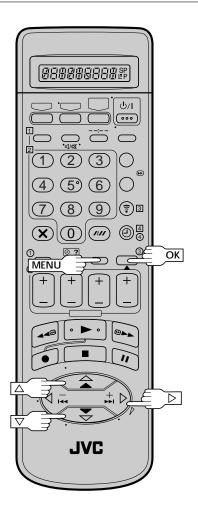


RETURN TO NORMAL SCREEN Press OK.

5

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 MAIN MENU SCRFFN

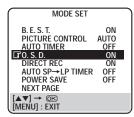
Press **MENU**.

ACCESS MODE SET **SCREEN**

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

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 △▽ to move the highlight bar (pointer) to "O.S.D." and press OK or b to set "O.S.D." to "OFF".



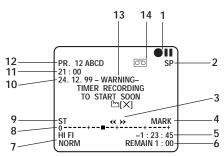
RETURN TO NORMAL

Press MENU.

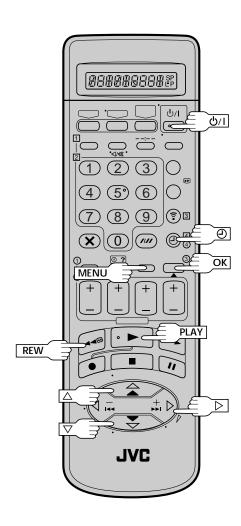
NOTES:

- 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

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



- 1- Operation mode indicators
- 2- Tape speed SP/LP/EP (EP is for NTSC playback only)
- 3- Tape direction
- 4- Index MARK indicator (F pg. 22)
- 5- Counter display
- 6- Tape remaining time indicator (F pg. 13)
- 7- Audio mode display (F pg. 27)
- 8- Tape position indicator (F pg. 10)
- 9- Type of Broadcast (F pg. 27)
- 10- Current day/month/year
- 11- Clock display
- 12- Channel position number and station name/Aux. indicator (L-1, L-2 or F-1)
- 13 Timer warning display (F pg. 15, 17)
- 14- Cassette loaded mark



Power Save Mode

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

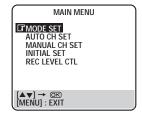
1

ACCESS MAIN MENU SCREEN

Press **MENU**.

ACCESS MODE SET SCREEN

Press △▽ to move the highlight bar (pointer) to "MODE SET", then press **OK** or ▷.



SELECT POWER SAVE MODE

Press △▽ to move the highlight bar (pointer) to "POWER SAVE", then press OK or ▷ to set to "ON".



RETURN TO NORMAL SCREEN

4

Press **MENU**.

NOTES:

- During Power Save, the display panel will be turned off.
- The Just Clock function (pg. 55) does not work while the Power Save mode is engaged.
- While the recorder is in the Power Save mode, the picture may be distorted momentarily when you turn on/off the recorder.
- Power Save does not work when ...
 - ... the recorder is in the Timer mode.
 - ... the recorder's power is turned off after timer-recording (or Instant Timer Recording).
 - ... the Auto Satellite Prog Recording mode is engaged (F) pg. 28).

Auto SP-LP Timer

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

For Example . . .

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

Approximately 150 minutes

Approximately 60 minutes

SP mode

LP mode

Total 210 minutes

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

ACCESS MAIN MENU SCREEN

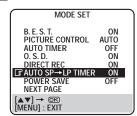
Press **MENU**.

ACCESS MODE SET SCREEN

Press △▽ to move the highlight bar (pointer) to "MODE SET", then press **OK** or ▷.

SELECT MODE

Press △▽ to move the highlight bar (pointer) to "AUTO SP→LP TIMER", then press **OK** or ▷ to select "ON"



RETURN TO NORMAL **SCRFFN**

Press MENU.

NOTES:

- The Auto SP→LP Timer feature is not available during ITR (Instant Timer Recording), and the feature will not work properly with any tapes longer than E-180 or with some tapes of shorter lengths.
- If you have programmed the recorder to timer-record 2 or more programmes, the second programme and those thereafter may not fit on the tape if you set "AUTO SP→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
- 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-LP Timer activated, and the programme goes beyond its originally scheduled length, there may be times when the programme cannot be recorded in its entirety.

Auto Timer

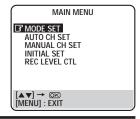
When the Auto Timer is set to ON the timer is automatically engaged when the recorder power is turned off and automatically disengaged when the recorder is powered back on.

ACCESS MAIN MENU **SCREEN**

Press **MENU**

ACCESS MODE SET SCREEN

Press △▽ to move the highlight bar (pointer) to "MODE SET", then press OK or ▷.



SELECT MODE Press **OK** or ▷ to select

either "ON" or "OFF".

MODE SET	
B. E. S. T. PICTURE CONTROL FAUTO TIMER	
O. S. D. DIRECT REC	ON ON ON
AUTO SP→LP TIMER POWER SAVE NEXT PAGE	OFF OFF
[A▼] → ©© [MENU] : EXIT	

RETURN TO NORMAL **SCRFFN**

Press MENU.

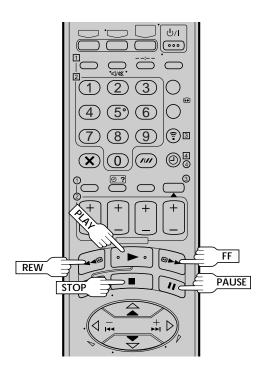
NOTE:

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

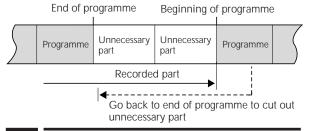
The Next Function Memory "tells" the recorder what to do after rewinding. Before continuing, make sure the recorder is in the Stop mode.

- 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 0/1 within 2 seconds. c- For Automatic Timer Standby After Tape Rewind . . .
- . . . press **REW**, then press **(TIMER)** within 2 seconds.



Retake

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



ENGAGE RECORD-PAUSE MODE

Press PAUSE during recording.

LOCATE START POINT

Turn the **JOG** dial to the left or right (or hold down **REW** or **FF**) and release it when you reach the point where you want to resume recording.

* Your recorder returns to the Record-Pause mode.

RESUME RECORDING

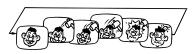
Press PLAY when you wish to resume recording.

NOTE:

Retake function does not work during Direct Rec (pg. 9).

Repeat Playback

Your video recorder can automatically play back the whole tape 50 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 50 times automatically, and then stops.

STOP PLAYBACK

Press STOP at any time to stop playback.

NOTE:

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

NTSC Playback

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

1

LOAD A CASSETTE

Insert a cassette recorded in NTSC.

START PLAYBACK

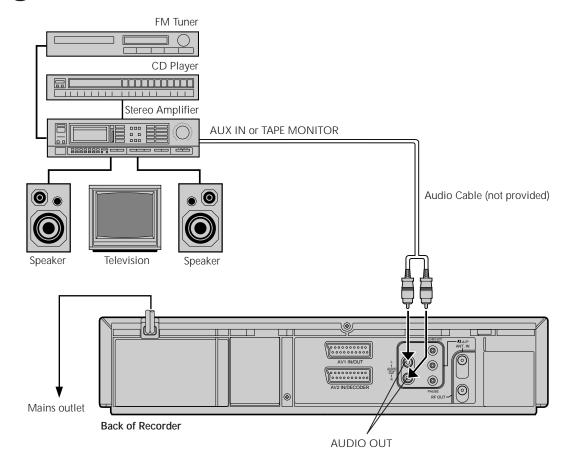
Press **PLAY**.

- "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:

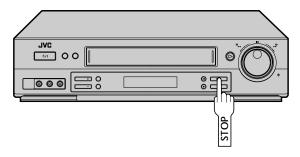
- When connecting your recorder's audio output connectors to a stereo amplifier, make sure you connect L and R correctly.
- If you can receive NICAM TV broadcasts in your area, this
 recorder can record them independently of the TV set and
 play them back through the connected stereo system.
- When listening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

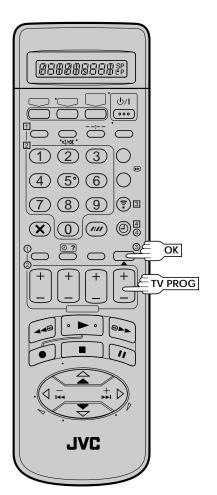
CAUTIONS:

- 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.

Video Channel Set

Video Channel (RF Output Channel) is the channel on which your TV receives picture and sound signals from the video recorder through the RF cable.





IMPORTANT

Perform the following steps only if —

- Video Channel Set has not been done correctly by the Auto Set Up function (
 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 47.

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 **STOP** on the recorder until the display panel shows the following.



SET VIDEO CHANNEL

Press **TV PROG** – until the display panel shows "_OUT- –".

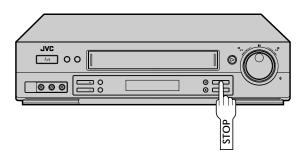


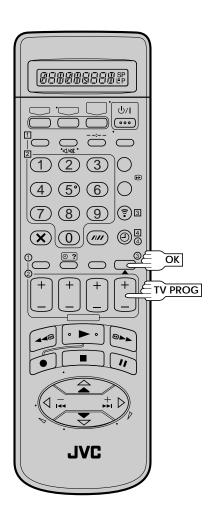
Now the video channel is set to off.

EXIT VIDEO CHANNEL SET MODE

Press OK.

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







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

With RF Connection

Before performing the following procedure, make sure that:

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

ACCESS VIDEO CHANNEL SET MODE

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



SET VIDEO CHANNEI

Press TV PROG+ 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. Refer to list on page 54 for details of broadcast stations in your area.

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



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

- If the two vertical white bars appear clearly on the screen as shown in the illustration at buttom left, go
- 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

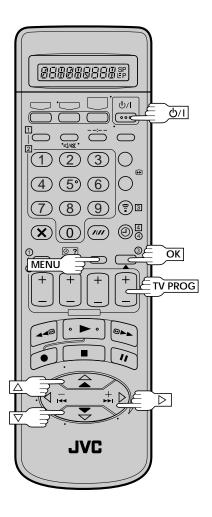
Press OK.

3

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 (pg. 6) or Preset Download (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 TV PROG buttons without going through any vacant channel.

Auto Channel Set

1

TURN ON THE RECORDER

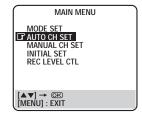
Press U/I.

ACCESS MAIN MENU SCREEN

Press **MENU**.

PERFORM AUTO CHANNEL SET

Move the highlight bar (pointer) to "AUTO CH SET" by pressing △▽, then press **OK** or ▷.



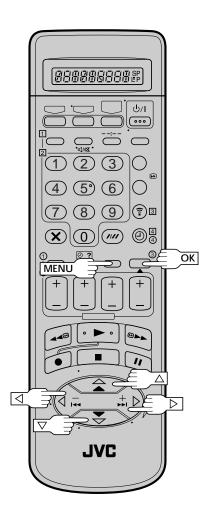
- The Auto Set screen appears, and remains on screen while the recorder searches for receivable stations. As Auto Channel Set progresses, the
- " mark on the screen moves from left to right. Wait until the screen as shown in step 4 appears.
- AUTO SET

 PLEASE WAIT

 O----
 [MENU]: EXIT

 Beginning

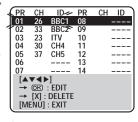
 End
- Auto Channel Set usually takes about 4 12 minutes; the duration varies by area.



VIEW CONFIRMATION SCREEN

Afis for

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



station names (ID – 🖙 pg. 53). The blueback screen and the programme currently being broadcast by the station which is blinking appear alternately for 8 seconds each.

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

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

RETURN TO NORMAL SCREEN

Press **MENU**.

 Using the Confirmation screen, you can skip or add preset positions, enter station names and perform other operations. Refer to pages 50 – 54 for the procedures.

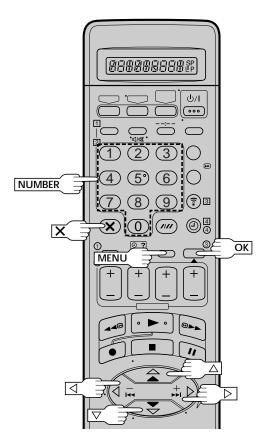
 Depending on reception conditions, the stations may, on occasion, not be stored in order, and the station names may not be stored correctly.

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 (Fig. 14, "VIDEO Plus+ Timer Programming").
- Your video recorder memorizes all detected stations even if reception of some of them is poor. In these cases picture quality may be poor. To delete those stations which have an unacceptable picture ** "Delete A Channel" on page 51.

NOTES:

- Fine tuning is performed automatically during Auto Channel Set. If you wish to perform it manually, refer to page 51.
- 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 (\square pg. 6), Preset Download (\square pg. 7) or Auto Channel Set (\square pg. 48).

1

ACCESS MAIN MENU

Press MENU.

ACCESS CONFIRMATION SCREEN

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

SELECT POSITION

Press △▽ ◁▷ until an open position in which you want to store a channel begins blinking, then press **OK**. The Manual Channel Set screen appears.

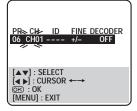
(Ex.) To store in position 6.

_						
(F	R C	H I	D	PR	CH	ID)
0	1 2	6 BE	BC1	80	-	
0	2 3	3 BE	C2	09	-	
0	3 2	3 IT	V	10	-	
0	4 3	0 CF	14	11	-	
4_0	5 3	7 CF	15 /	12	_	
. 0	16			13	-	
70	17			14	-	
		◆▶]				
	→ ©	∃ : EC	DIT			
	→ [X] : DELETE					
- U	[MEN	Ū] : E>	(IT			

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

SELECT BAND

Press $\triangle \nabla$ to change the band between CH (regular) and CC (cable), then press \triangleright .



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

INPUT CHANNEL

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

- To input the registered station name (ID – □ pg. 53), press > until "---" (ID setting) begins blinking, then press △∇.
- For fine tuning adjustment, press ▷ until "+/-" begins blinking, then press △ ▽. While tuning, "+" or "-" appears.
- PR SH ID FINE DECODER

 06 CH21 ---- +/- OFF

 [▲▼]: SELECT

 [▲▼]: CURSOR ←--
 ©IS: :OK

 [MENU]: EXIT

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

 When "AV2 SELECT" is set to "AV2", the "DECODER" setting cannot be changed (pg. 36).

ENTER NEW CHANNEL INFORMATION

Press **OK** and the Confirmation screen appears.

• Repeat steps 3 through 6 as necessary.

CLOSE CONFIRMATION SCREEN

Press **MENU**.

6

- To change positions, see "Change Station Preset Position" (
 pg. 51).
- If you wish to set station names other than the ones registered in your recorder, "Set Stations (B)" on pg. 52.

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.
#ATTENTION – Regarding Guide Program Number Set" on pg. 15.

Or perform "Guide Program Number Set" (F pg. 56).

Delete A Channel

Perform steps 1 and 2 of "Storing Channels Manually" on page 50 to access the Confirmation screen before continuing.

SELECT ITEM

Press $\triangle \nabla \triangleleft \triangleright$ until the item you want to delete begins

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

Change Station Preset Position

Perform steps 1 and 2 of "Storing Channels Manually" on page 50 to access the Confirmation screen before continuing.

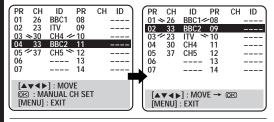
SELECT ITEM

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

SELECT NEW POSITION

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

NOTE:

The characters available for the station name (ID) are A-Z, 0-9,

Fine-Tuning Channels Already Stored

Perform steps 1 and 2 of "Storing Channels Manually" on page 50 to access the Confirmation screen before continuing.

SELECT CHANNEL TO FINE-TUNE

Press △▽ <▷ until the channel you want to tune begins blinking.

ACCESS MANUAL CHANNEL SET SCREEN

Press OK twice. The Manual Channel Set screen appears.

PERFORM TUNING

Press ▷ until "+/-" begins blinking, then press △▽ until the picture is clearest. Then press OK.

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

CLOSE CONFIRMATION SCREEN

ATTENTION

Press MENU.

If channel positions are changed or deleted, the Guide Program numbers that have been set are reset.

- Example 1: If a channel is deleted, all the Guide Program numbers are reset.
- Example 2: If a channel is changed from position 4 to position 2, the Guide Program numbers above position 4 are reset.
- Example 3: If a channel is changed from position 4 to position 6, the Guide Program numbers above position 6 are reset.
- In Examples 2 and 3, if the channel is moved to position 10 before **OK** is pressed, the Guide Program numbers above position 10 are reset.

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. ☐ "ATTENTION – Regarding Guide Program Number Set" on pg. 15.

Or perform "Guide Program Number Set" (F pg. 56).

-, ★, +, **-** (space) (maximum of 4).

Set Stations (A)

Set station names that are registered in your recorder.

Perform steps 1 and 2 of "Storing Channels Manually" on page 50 to access the Confirmation screen before continuing.

1

SELECT ITEM

Press $\triangle \nabla \triangleleft \triangleright$ until the item you want begins blinking.

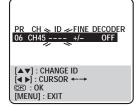
ACCESS MANUAL CHANNEL SET SCREEN

Press **OK** twice.

2

SELECT NEW STATION

Press ▷ until the station name (ID) begins blinking, then press △∇ until the new station's name (ID) you want to store begins blinking. Registered station names (፲፰ pg. 53) appear as you press △∇.



SWITCH STATIONS

Press OK.

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

CLOSE CONFIRMATION SCREEN

Press MENU.

Set Stations (B)

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

Perform steps 1 and 2 of "Storing Channels Manually" on page 50 to access the Confirmation screen and then perform steps 1 and 2 of "Set Stations (A)" on the left before continuing.

1

SELECT STATION NAME CHARACTER

Press ▷ until the first letter of the station name begins blinking.



7

ENTER NEW CHARACTER

Press $\triangle \nabla$ to cycle through the characters (A–Z, 0–9, –, \star , +, — (space)) and stop when the desired character is indicated, then press \triangleright to enter. Enter the remaining characters the same way (maximum of 4). After entering all characters, press **OK**.

- The Confirmation screen appears.

CLOSE CONFIRMATION SCREEN

Press **MENU**.

TV Station And ID List

IV Station And	ID LIST
STATION NAME	ID*
Anglia TV	ANGL
ARD	ARD
ARTE BBC Group	ARTE BBC
BBC1	BBC1
BBC2	BBC2
Berlin 1	BLN1
Berlin 2 Border TV	BLN2 BORD
Bayern1	BR1
Bayern3	BR3
BRT1 BRT2	BRT1 BRT2
Children Ch	CHLD
Canal +	CH+
CNN Channal TV	CNN
Channel TV Central TV	CHNL CNTR
Channel 4	CH 4
Channel 5	CH 5
DRS	DRS
DR TV DSF	DRTV DSF
Euronews	EURN
Euronews	EURO
Eurosports France1	EURS FR1
France2	FR2
France3	FR3
Granada TV	GRNA
Grampian TV Hessen1	GRMP HR1
Hessen3	HR3
HRT	HRT
HTV	HTV
ITV Network Kabelkanal	ITV KABL
London	LNDN
MDR	MDR
MTV	MTV
Nord3 NDR1	N3 NDR1
NDR3	NDR3
NED1	NED1
NED2 NED3	NED2 NED3
Network 2	NET2
NRK	NRK
N-TV	N-TV
Offener Kanal ORF1	OKAN ORF1
ORF2	ORF2
ORF3	ORF3
OWL 3	OWL3
Premiere PR07	PRMI PR07
RAI1	RAI1
RAI2	RAI2
RAI3 RB1	RAI3 RB1
RB3	RB3
Rikisutvarpid-S	RKPS
RTBF 1	RTB1
RTBF 2 RTE 1	RTB2 RTE1
RTL	RTL
RTL 2	RTL2
RTP	RTP

STATION NAME	ID*
SAT	SAT
SAT 1	SAT1
Scottish TV	SCOT
SC4	SC4
SDR	SDR
SDR1	SDR1
SFB1	SFB1
SFB3	SFB3
SKY	SKY
Sky One	SKY1
Sky Net	SKYN
Sport	SPRT
SR 1	SR1
Super RTL	SRTL
STV Test	STVT
STV 1	STV1
STV 2	STV2
Suedwest3	SWR
SWF 1	SWF1
Schweiz4	SWZ4
TYNE TEES	TEES
Text	TEXT
TF1	TF1
TNT int	TNT
TRT int	TRT
TSI	TSI
TSR	TSR
TSW	TSW
TVE	TVE
TV Polonia	TVPA
TVP 1	TVP1
TVP 2	TVP2
TVS	TVS
TV2	TV2
TV5	TV5
Tele Zurich	TZUR
Ulster TV	ULST
Veronica	VERN
VIVA	VIVA
VIVA2	VIV2
VOX	VOX
VTM	VTM
VT4	VT4
West1	WDR1
West3	WDR3
YLE 1	YLE1
YLE 2	YLE2
Yorkshire TV	YORK
ZDF	ZDF
Zurich 1	ZUR1
3SAT	3SAT

^{*} The "ID" abbreviation is what is shown on-screen in lieu of the station name. The "ID" abbreviation is listed in the Confirmation screen and is displayed on the TV screen each time the recorder is tuned to a different station.

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

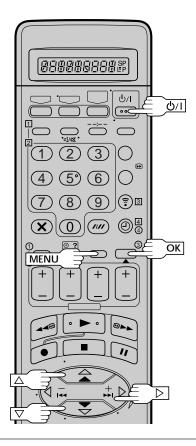
Only the main stations are listed. There are in addition many relay stations, and full lists are available from the BBC and ITV.

	BBC1	BBC2	ITV	CH4	CH5
London & South-East					
Bluebell Hill	40	46	43	65	_
Crystal Palace	26	33	23	30	37
Dover	50	56	66	53	_
Heathfield	49	52	64	67	_
Oxford	57	63	60	53	49
South-West					
Beacon Hill	57	63	60	53	
Caradon Hill		28	25	32	_
Huntshaw Cross		62	59	65	67
Redruth		44	41	47	37
Stockland Hill	33	26	23	29	_
Channel Islands					
Fremont Point	51	44	41	47	_
South					
Hannington	39	45	42	66	35
Midhurst		55	58	68	_
Rowridge		24	27	21	
Nowriage	51	24	21	21	
Most					
West	F-0				0.7
Mendip	58	64	61	54	37
East					
Sandy Heath	31	27	24	21	39
Sudbury	51	44	41	47	35
Tacolneston		55	59	65	52
Midlands					
	22	28	25	32	35
Ridge Hill					
Sutton Coldfield		40	43	50	37
The Wrekin		33	23	29	35
Waltham	58	64	61	54	35
North					
Belmont	22	28	25	32	56
Emley Moor	44	51	47	41	37

North-West	BBC1	BBC2	ITV	CH4	CH5
Caldbeck	30	34	28	32	56
Winter Hill	55	62	59	65	48
North-East					
Bilsdale West Moor		26	29	23	35
Chatton		45	49	42	_
Pontop Pike	58	64	61	54	68
Scotland					
Angus		63	60	53	
Black Hill Sandale		46	43	50	37
Caldbeck		34	 28	32	 56
Creigkelly		27	24	21	48
Darvel		26	23	29	35
Durris	22	28	25	32	67
Eitshal		26	23	29	_
Keelylang Hill		46	43	50	_
Knock More		26	23	29	_
Rosemarkie		45	49	42	67
Rumster Forest Selkirk		27 62	24 59	21 65	<u></u>
SEIKII K	33	02	39	00	32
Wales					
Blaenplwyf		27	24	21	56
Carmel		63 63	60 60	53	_
Llanddona Moel-y-Parc		63 45	49	53 42	_
Presely		40	43	50	37
Wenvoe		51	41	47	_
Northern Ireland					
Brougher Mountain	22	28	25	32	_
Divis		27	24	21	37
Limavady	55	62	59	65	_

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 $\triangle \nabla$ 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 (pg. 28).
- 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 (pg. 6), Preset Download (pg. 7) or Auto Channel Set (pg. 48), 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.

the recorder's memory backup has expired.

you want to change Just Clock setting (
 "Just Clock" in the left column).

TURN THE RECORDER ON

Press U/I.

ACCESS MAIN MENU SCREEN Press MENU.

ACCESS INITIAL SET SCREEN

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

ACCESS CLOCK SET SCREEN

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





SET DATE AND TIME

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

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

SET JUST CLOCK

The default setting is "ON". Set as desired by pressing $\triangle \nabla$, 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

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

START CLOCK OPERATION

Press MENU.

8

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VIDEO Plus+ Setup

IMPORTANT

Normally, Auto Set Up (pg. 6), Preset Download (pg. 7) or Auto Channel Set (pg. 48) 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 delete a channel or change preset positions manually after Auto Set Up or Auto Channel Set has taken place.
- Set the Guide Program Numbers for all the receivable stations manually.
- When you wish to timer-record a satellite programme with 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

1

ACCESS MAIN MENU SCREEN

Press **MENU**.

ACCESS INITIAL SET SCREEN

2

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

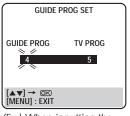
ACCESS GUIDE PROG SET SCREEN

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

ENTER GUIDE PROG NUMBER

4

Press △▽ or **NUMBER** keys to enter the Guide Program number for the desired station as shown in the TV listings. Then press **OK** or ▷.



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

ENTER RECEIVING PRESET POSITION NUMBER

Press △▽ or NUMBER keys to input the number of the recorder's preset position on which the Guide Program number's broadcast is received. Then press OK or ▷.



• If the satellite broadcast is received on your recorder's auxiliary channel "L-2", select "L-2" for the preset position.

(Ex.) If CH4 is received on preset position 4.

· Repeat steps 4 and 5 as necessary.

RETURN TO NORMAL

SCREEN Press MENU.

6

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.

A. The video recorder automatically rewinds it to the beginning or, if Timer Recording, the cassette is

Questions And Answers

PLAYBACK TIMER RECORDING Q. What happens if the end of the tape is reached Q. "O" and "O" remain lit on the display panel. Is there during playback or search? a problem? A. The tape is automatically rewound to the beginning. A. No. This is a normal condition for a timer recording in progress. Q. Can the video recorder indefinitely remain in the still mode? Q. Can I programme the timer while I'm watching a A. No. It stops automatically after 5 minutes to protect tape or a TV broadcast? the heads. 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. Q. When returning from multi-speed search to normal playback, the picture is disturbed. Should I be concerned about this? Q. Is it possible to timer-record a TV programme A. No, it is normal. broadcast in 2000? **A.** Yes, it is possible. Q. Sometimes, during Index Search, the video recorder can't find the programme I want to see. Why not? **A.** There may be index codes too close together. RECORDING Q. When I pause and then resume a recording, the end of the recording before the pause is overlapped by the beginning of the continuation of recording. Why does this happen? A. This is normal. It reduces distortion at the pause and resume points. Q. Can the video recorder indefinitely remain in the Record-Pause mode? A. No. The video recorder shuts off automatically after 5 minutes to protect the heads. Q. What happens if the tape runs out during recording?

ATTENTION

eiected.

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

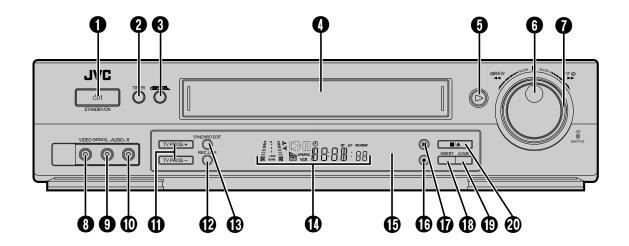
Before requesting service for a problem, use this chart to see if you can correct the trouble yourself. Small problems are often easily corrected, and this can save you the trouble of sending your video recorder off for repair.

POWER		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
No power is applied to the recorder.	The mains power cord is disconnected.	Connect the mains power cord.
The clock is functioning properly, but the recorder cannot be powered.	■ "②" is displayed on the display panel with Auto Timer set to "OFF". ■ "OFF".	Press the ② button to turn the "②" 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
The tape does not run during recording.	""" is displayed on the display panel.	Press PLAY to turn the "" indicator off.
The tape will not rewind or fast- forward.	 The tape is already fully rewound or fast-forwarded. 	Check the cassette.
PLAYBACK		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
The playback picture does not appear while the tape is running.	If you're using the RF OUT connection the TV receiver's channel selector is not set to the VIDEO channel the recorder's VIDEO channel has not been correctly set. If you're using the AV connection, the TV receiver is not set to the AV mode.	If you are using the RF OUT connection set the TV receiver to the VIDEO channel. ((()) pg. 6) Perform "Video Channel Set" ((()) pg. 46) If you are using the AV connection, set the TV to its AV mode.
2. Noise appears during visual search.	This is normal during visual search other than TimeScan.	
Noise appears during normal playback.	The automatic tracking mode is engaged.	Try manual tracking (🖙 pg. 19).
The playback picture is blurred or interrupted while TV broadcasts are clear.	The video heads may be dirty.	Consult your JVC dealer.
5. Breaks are noticeable in Hi-Fi soundtrack.	Automatic tracking is engaged.	Engage and adjust tracking manually (r pg. 19) or press AUDIO to change the soundtrack to "NORM" (r pg. 27).
RECORDING		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
Recording cannot be started.	There is no cassette loaded, or the cassette loaded has had its Record Safety tab removed.	Insert a cassette, or using adhesive tape, reseal the slot where the tab was removed.
2. TV broadcasts cannot be recorded.	• "L-1", "L-2" or "F-1" has been selected as the input mode.	Set to the desired preset.
3. Tape-to-tape editing is not possible.	 The source (another video recorder, camcorder) has not been properly connected. All necessary power switches have not been turned on. The input mode is not correct. 	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" or "F-1".

Camcorder recording is not possible.	 The camcorder has not been properly connected. The input mode is not correct. 	Confirm that the camcorder is properly connected. Set the input mode to "L-1", "L-2" or "F-1".
TIMER RECORDING		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
Timer recording won't work.	The clock and/or the timer have been set incorrectly.The timer is not engaged.	Re-perform the clock and/or timer settings. Press ② and confirm that "④" is displayed on the display panel.
2. Timer programming is not possible.	• Timer recording is in progress.	Timer programming can't be performed while a timer recording is in progress. Wait until it finishes.
3. "O" and "ල්ට" on the display panel won't stop blinking.	The timer is engaged but there's no cassette loaded.	Load a cassette with the Record Safety tab intact, or cover the hole using adhesive tape.
4. The cassette is automatically ejected, and "②" and "⑤" on the display panel won't stop blinking.	The loaded cassette has had its Record Safety tab removed.	Remove the cassette and cover the hole with adhesive tape, or insert a cassette with the Record Safety tab intact.
5. "O" blinks for 10 seconds and the Timer mode is disengaged.	 ② has been pressed when there are no programs in memory, or the timer record information has been programmed incorrectly. 	Check the programmed data and reprogramme as necessary, then press again.
6. The cassette is automatically ejected, the power shuts off and "⊕" and "□□" won't stop blinking.	 The end of the tape was reached during timer recording. 	The programme may not have been recorded in its entirety. Next time make sure you have enough time on the tape to record the entire programme.
VIDEO Plus+ does not timer-record properly.	 The recorder's preset positions have been set incorrectly. 	Refer to "Guide Program Number Set" and re-perform the procedure (rg pg. 56).
OTHER PROBLEMS		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
Whistling or howling is heard from the TV during camcorder record- ing.	The camcorder's microphone is too close to the TV.The TV's volume is too high.	Position the camcorder so its microphone is away from the TV. Turn the TV's volume down.
When scanning channels, some of them are skipped over.	 Those channels have been designated to be skipped. 	If you need the skipped channels, restore them (127 pg. 50).
3. The preset cannot be changed.	Recording is in progress.	Press PAUSE to pause the recording, change presets, then press PLAY to resume recording.
Channel settings that were made manually seem to have changed or disappeared.	 After the manual settings were made, Auto Channel Set was performed. 	Perform manual setting again.
No channels are stored in the recorder's memory.	The TV aerial cable was not connected to the recorder when Auto Set Up was performed.	Connect the TV aerial cable to the recorder properly and turn off the recorder power once, then turn the recorder power back on again. The recorder will try Auto Set Up again (F) pg. 6).
The remote control won't operate the TV or satellite receiver.	 The remote control brand setting is incorrect. 	Re-set the remote control to the correct brand (LF pg. 31, 32).

Index

FRONT VIEW



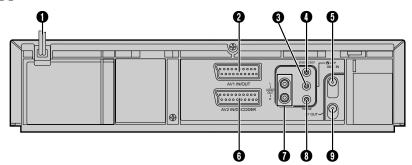
- STANDBY/ON ⊍/I Button turns recorder on/off (loading a cassette also turns power on).
- 2 TIMER Button engages timer-standby mode.
 g pg. 15, 17
- **3 REVIEW Button** "reviews" timer-recorded programme. □ pg. 23
- Cassette Loading Slot is where cassette is inserted; door closes, "cassette loaded" indicator lights up on front display panel.
- **9 PLAY Button** plays back tape **pg. 10**; cancels Pause, Still, Slow, Search modes. **pg. 11**
- 6 JOG Dial plays back frame by frame during Still or Play mode.

 pg. 11
- TIME SCAN SHUTTLE Ring rewinds or fastforwards tape during Stop mode □ pg. 10; performs forward and reverse slow-motion and search (TimeScan) during Still or Play mode.
 □ pg. 11, 24
- VIDEO Input Connector enables easy connection of video output from another recorder or camcorder for editing. pg. 33
- AUDIO Input Connector [L] enables easy connection of audio output (mono) from another recorder, camcorder or other source for editing.

 pg. 33
- AUDIO Input Connector [R] enables easy connection of audio output (Hi-Fi) from another recorder, camcorder or other source for editing.
 pg. 33

- **1)** TV PROG +/− Buttons select a preset position.
 □ pg. 12
- REC LINK Button enables/disables the Auto Satellite Prog Rec mode. □ pg. 29
- **(B) SYNCHRO EDIT Button** enables Synchro Editing mode. □ pg. 34
- ◆ Display Panel provides clear view of various displays and indicators. □ pq. 61
- Infrared Beam Receiving Window is where remote control should be aimed when in use.
- RECORD Button starts regular recording (press once), Instant Timer Recording (press twice); sets duration of ITR.
 □ pg. 12, 13
- **(b) PAUSE Button** stops tape temporarily during recording **(c)** pg. 12; stops tape temporarily during playback; plays back frame by frame with each additional press. **(c)** pg. 11
- (B) INSERT Button engages Insert Editing mode graps as 9
- A. DUB Button engages Audio Dubbing mode.
 pg. 37
- ② STOP/EJECT Button stops tape; ejects tape during Stop mode. ☐ pg. 10

REAR VIEW

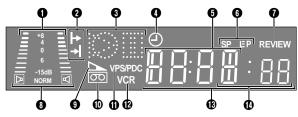


- **1** Mains Power Cord supplies power to recorder. © pq. 5
- **2** AV1 IN/OUT Connector enables AV connection to TV or second recorder; input recordable when "L-1" selected. 🖙 pg. 5, 35
- 3 J Terminal (JLIP (Joint Level Interface Protocol) **Connector)** enables connection of a personal computer or similar device to allow computerized control of the recorder during editing and certain other operations. F pg. 40
- SYNCHRO EDIT Connector enables connection to camcoder equipped with LANC connector, for easy editing. pg. 34

- **6** ANT. IN Connector enables connection of aerial.
- 6 AV2 IN/DECODER Connector enables connection of satellite receiver, decoder or second recorder; input recordable when "L-2" selected. pg. 28, 35

 AUDIO OUT (L/R) Connectors enable
- connection of audio cassette recorder, TV or second video recorder for dubbing. 🖙 pg. 45
- Remote PAUSE Connector enables connection to second recorder equipped with R.A. Edit connector, or to JVC camcorder equipped with Master Edit Control, for easy editing. F pg. 33
- RF OUT Connector enables connection to aerial terminal of TV receiver. 🖙 pg. 5

DISPLAY PANEL



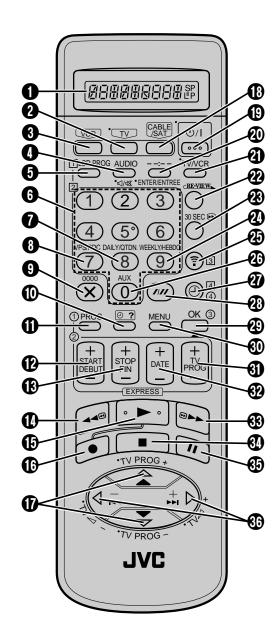
- **1** B.E.S.T. Picture System Display lights from bottom to top while B.E.S.T. is active. pg. 20 Audio Level Indicator displays audio input and output levels. Fg. 26
- **2** Programme Time Indicators show the programme start time (→) and the programme stop time (→) for timer-recording. r pg. 16
- Symbolic Mode Indicators

PLAY:		STILL: SLOW:	
FF/REW VARIABLE SEARCH:		RECORD:	\circ
SLAKOTI.		RECORD PAUSE:	
AUDIO DUBBING:			執
AUDIO DUBBING PAUSE:			(A)
INSERT:			0
INSERT PAUSE:			() III
AUDIO DUBBING INSERT:			潢
AUDIO DUBBING INSERT PAUSE:)¢í

- "Timer" Indicator lights when has been pressed to engage Timer mode. I pg. 15, 17
- Channel Display shows preset position where the station currently being received is stored.
- Clock Display shows current time. F pg. 8 6 Tape Speed Indicators display mode of recording; light during Record or Play mode. F pg. 12 * EP is only for NTSC playback.
- Instant REVIEW Indicator blinks after timer-recording and shows how many programmes have been timer-
- recorded. 🖙 pg. 23
 3 Audio Mode Indicator displays audio output mode currently selected. 🖙 pg. 27
- **19** Tape Remaining Time Indicator displays time remaining on tape when certain buttons are pressed.

 pg. 13
- Cassette Loaded" Mark lights once a cassette is inserted; remains lit until cassette ejected.
- PDC Indicator lights when PDC has been engaged for timer recording. pg. 15, 17
 - * VPS (Video Programme System) recording is not currently available in the U.K. and not possible with this recorder.
- **WCR Indicator** lights when the video recorder is in the video mode. At this point, the TV automatically
- enters AV mode. pg. 10
 Counter shows time elapsed since playback or recording began.
 - With **displayed**, shows time remaining from current tape position to end of tape (r pg. 13). 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 or

REMOTE CONTROL



Buttons with a small dot on the left side of the name can also be used to operate your TV. pg. 31

- 2 TV Button enables remote control of connected TV. ☞ pg. 31, 63
- **3 VCR Button** enables remote control of VCR or is used for switching A/B code of the remote control. □ pg. 30, 63
- - **प/**₩ (TV Muting) Button mutes sound of connected TV. pg. 31
- **(5)** LCD PROG Button accesses VIDEO Plus+display on LCD panel. □ pg. 14
- **6 NUMBER Keys** are used in preset position selection **☞** pg. 12, VIDEO Plus+ timer programming **☞** pg. 14.
- **⑦** DAILY Button enables timer recording of daily serials. □ pg. 15, 17
- PDC Button enables/disables PDC recording.

 □ pg. 15, 17
 - * VPS (Video Programme System) recording is not currently available in the U.K. and not possible with this recorder.
- X Button cancels timer-programme.
 □ pg. 18

 0000 Button resets counter to 0:00:00.
 □ pg. 13
- ② ? Button accesses Program screens/displays to check the programme that you have programmed (next programme's information screen/display appears each time button is pressed).
 ☐ pg. 18

- **③ STOP +/- Button** inputs programme Stop Time.
 ☐ pg. 16
- Rewind [REW] Button rewinds tape ; initiates high-speed reverse search.
 □ pg. 10, 11
- Play Button same as button on recorder.

 □ pg. 10, 11
- **(b)** △∇ **Button** is used for selection in on-screen menus. □ pg. 20
 - TV PROG +/- selects the connected TV's/satellite receiver's channel. pg. 31, 32

- CABLE/SAT Button enables remote control of connected satellite receiver. □ pg. 32, "Remote Control LCD" in the right column
- STANDBY/ON ७/I Button same as button on recorder.
- ② --:- (DISPLAY) Button switches display between clock time, tape remaining time, counter readings and preset position*. □ pg. 13 * Preset position is not displayed during playback.
- **② TV/VCR Button** switches connected TV's mode between TV and AV. ☐ pg. 10
- **REVIEW Button** same as button on recorder. pg. 23
- 30 SEC Button initiates a 30-second period of fast-motion playback.

 pg. 22
- WEEKLY Button enables timer recording of weekly serials.

 pg. 15, 17
- AUX Button selects recorder's auxiliary input mode. □ pg. 33, 34, 35
- ② (TIMER) Button same as button on recorder. ☐ pg. 15, 17
- Auto Tracking Button (////) enables/disables auto tracking mode during playback @ pg. 19 SP/LP Button selects tape speed. @ pg. 12
- **OK Button** enters selections made in on-screen menus. Fig. 20
- **MENU Button** accesses Menu screen. pg. 20
- **① TV PROG +/- Button** same as button on recorder. □ pg. 12
- DATE +/- Button inputs date of programme for timer recording.
 □ pg. 16
- Fast Forward [FF] Button fast-forwards tape; initiates high-speed forward search. ☐ pg. 10, 11
- Stop Button same as button on recorder.
 □ pg. 10
- **9 Pause Button** same as button on recorder. gp pg. 11
- - TV ∠ +/-Button controls volume of connected TV. 🖙 pg. 31

How To Use

The remote control can operate most of your video recorder's functions, as well as basic functions of TV sets and satellite receivers of JVC and other brands. (Fig. 9q. 31, 32)

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

NOTES:

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

Remote Control LCD

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

To operate your video recorder, first press the VCR button to set the remote control to the Video mode.
 To switch remote control's A/B code, refer to page 30.



2 To operate your TV, first press the TV button to set the remote control to the TV mode (F) pg. 31).



To operate your satellite tuner, first press the CABLE/SAT button to set the remote control to the Satellite tuner mode (IFF pg. 32).



NOTES:

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

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

SPECIFICATIONS

GENERAL

Power requirement

Power consumption

: AC 220 – 240 V_{∞} , 50/60 Hz

Power on Power off : 22 W : 5.5 W

Temperature

: 5°C to 40°C Operating Storage : -20°C to 60°C

Operating position : Horizontal only Dimensions (WxHxD) : 400 x 94 x 347 mm

Weight : 4.1 kg

Format : VHS PAL standard

Maximum recording time

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

cassette

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

cassette

VIDEO/AUDIO

: PAL-type colour signal and Signal system

CCIR monochrome signal,

625 lines/50 fields

: DA4 (Double Azimuth) helical Recording system

scan system

Signal-to-noise ratio : 45 dB Horizontal resolution : 250 lines

: 70 Hz to 10,000 Hz (Normal Frequency range

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)

TUNER/TIMER

TV channel storage

: 99 positions capacity

(+AUX position)

: Frequency synthesized tuner Tuning system Channel coverage : VHF 44.5 - 143/143 - 470 MHz

UHF 470 - 862 MHz

Aerial output : UHF channels 22 - 69

(Adjustable)

Memory backup time : Approx. 10 min.

ACCESSORIES

Provided accessories : RF cable.

Infrared remote control unit,

"AA" battery x 2

Specifications shown are for SP mode unless otherwise specified.

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





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