JVC

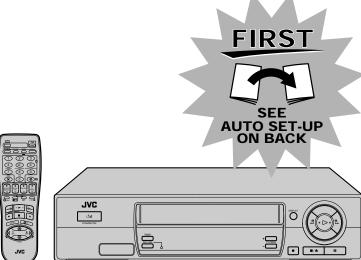


CONTENTS

ENGLISH

VIDEO CASSETTE RECORDER

HR-J313EU









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SPECIFICATIONS

LPT0298-001A



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Safety Precautions

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

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

CAUTION

- When you are not using the recorder for a long period of time, it is recommended that you disconnect the power cord from the mains outlet.
- Dangerous voltage inside. Refer internal servicing to qualified service personnel. To prevent electric shock or fire hazard, remove the power cord from the mains outlet prior to connecting or disconnecting any signal lead or aerial.

WARNING

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

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

For Italy:

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

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



- Cassettes marked "VHS" (or "S-VHS") can be used with this video cassette recorder, however, only VHS signals can be played back and recorded.
- HQ VHS is compatible with existing VHS equipment.
- SHOWVIEW is a registered trademark of Gemstar Development Corporation. The SHOWVIEW system is manufactured under licence from Gemstar Development Corporation.

IMPORTANT

- Please read the various precautions on this page before installing or operating the recorder.
- It should be noted that it may be unlawful to re-record 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.

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

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

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

MOISTURE CONDENSATION

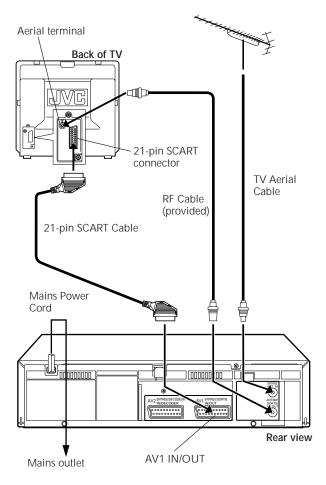
Moisture in the air will condense on the recorder when you move it from a cold place to a warm place, or under extremely humid conditions—just as water droplets form in the surface of a glass filled with cold liquid. Moisture condensation on the head drum will cause damage to the tape. In conditions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

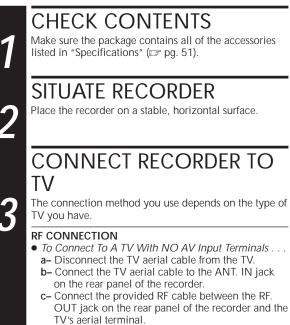
INSTALLING YOUR NEW RECORDER

Basic Connections



Make AV connection if your TV has a 21-pin AV input connector (SCART) in order to reduce the possibility of interference.

It's essential that your video recorder be properly connected. Follow these steps carefully. THESE STEPS MUST BE COMPLETED BEFORE ANY VIDEO OPERATION CAN BE PERFORMED.



AV CONNECTION

- To Connect To A TV With AV Input Terminals . . . a- Connect the aerial, recorder and TV as per "RF
 - CONNECTION". **b**- Connect an optional SCART cable between the AV1 IN/OUT socket on the rear panel of the recorder and the TV's 21-pin SCART connector.

CONNECT RECORDER TO MAINS

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

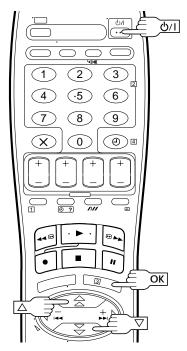
After you plug the mains power cord into a mains outlet, the Country Set display appears on the TV screen and/or on the recorder's front display panel when the O/I button on the recorder/remote control is pressed for the first time to power on the recorder; go to page 4 to perform Auto Set Up.

INITIAL SETTINGS



Auto Set Up

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



International Telephone Country Code							
BELGIUM	: 32	NORGE	: 47				
ČESKÁ REPUBLIKA	: 42	ÖSTERREICH	: 43				
DANMARK	: 45	POLSKA	: 48				
DEUTSCHLAND	: 49	PORTUGAL	: 351				
ESPAÑA	: 34	SUISSE	: 41				
GREECE	: 30	SUOMI	: 358				
ITALIA	: 39	SVERIGE	: 46				
MAGYARORSZÁG	: 36	OTHER WESTERN EUROPI	E:				
NEDERLAND	: 31	OTHER EASTERN EUROPE	: EE				

ATTENTION

Once you have performed Auto Set Up, even if the recorder's memory backup has expired, all the stored stations and their Guide Program numbers remain in the recorder's memory and the recorder will not perform Auto Set Up again. You only need to set the clock. (IFF pg. 42)

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

- Video Channel setting (for RF connection users) I pg. 44
- Tuner setting 🖙 pg. 36
- Clock setting 🖙 pg. 42

If a new station starts broadcasting in your area, perform tuner setting (IFF pg. 36) and, if necessary, video channel setting (IFF pg. 44).

When the O/l button on the recorder/remote control is pressed for the first time to power on the recorder after you plug the mains power cord into a mains outlet, the Country Set display will appear on the TV screen and the recorder's front display panel. By simply selecting your country*, the Auto Set Up function sets the tuner channels, clock**, Guide Program numbers and video channel*** automatically.

- * If you live in Belgium (BELGIUM) or Switzerland (SUISSE), you also need to select your area.
- ** If you live in Hungary (MAGYARORSZAG), Czech Republic (CESKA REPUBLIKA), Poland (POLSKA) or other countries in Eastern Europe (OTHER EASTERN EUROPE), set the clock manually.
- *** Useful if you have connected the video recorder to your TV via RF connection (I g pg. 3). Video Channel (RF output channel) is the channel on which your TV receives picture and sound signals from the video recorder through the RF cable.

You can refer to the front display panel and/or the on-screen display to perform this procedure.

Before starting, make sure of the following:

- The TV aerial cable should be connected to the recorder.
- The recorder's mains power cord should be connected to a mains outlet. Imp. 3
- If you want to use the on-screen display, the TV should be set to its AV mode (with AV connection IP pg. 3) or UHF channel 36 (with RF connection IP pg. 3).

TURN ON THE RECORDER

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



NOTE:

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



SELECT COUNTRY

If you are referring to the front display panel Press △マ to select your international telephone country code of your country referring to the chart in the left column. (Ex.) DEUTSCHLAND is selected



If you are referring to the on-screen display

Press $\Delta \nabla$ to move the highlight bar (pointer) to your country's name.

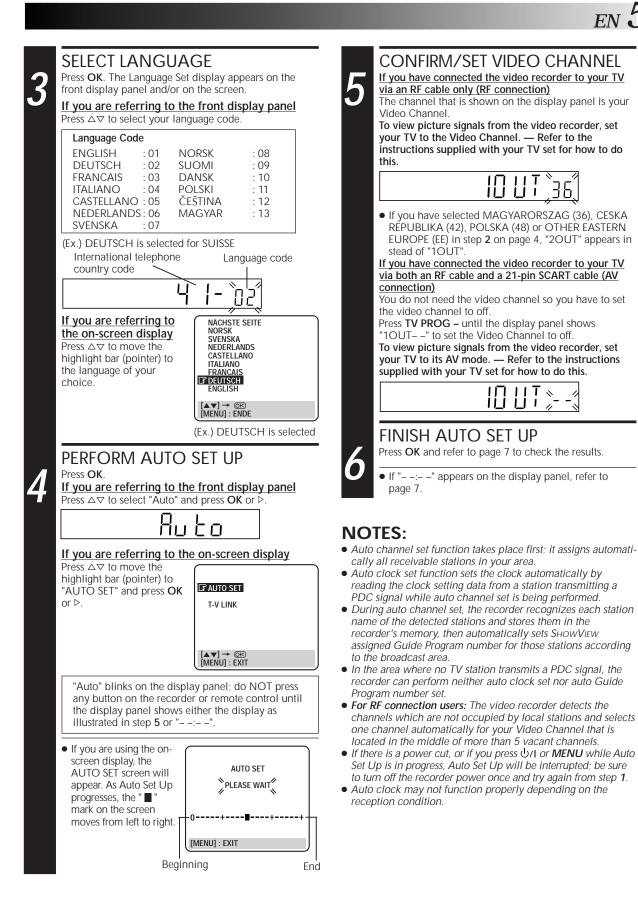
NOTE: If you have selected BELGIUM (32) or SUISSE (41), go to step 3. If you have selected



MAGYARORSZAG (36), CESKA REPUBLIKA (42), POLSKA (48) or OTHER EASTERN EUROPE (EE), press **OK**. The Clock Set screen will appear. Set the clock manually (III) pg. 42 – 43), then go to step **4**. If you have selected any other country name (code), go to step **4**.



D.



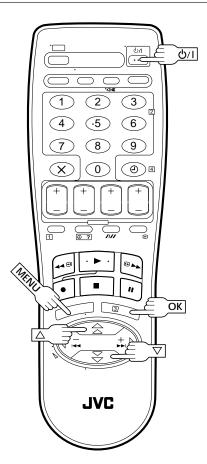
INITIAL SETTINGS (cont.)

Preset Download

6 EN

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

* 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.

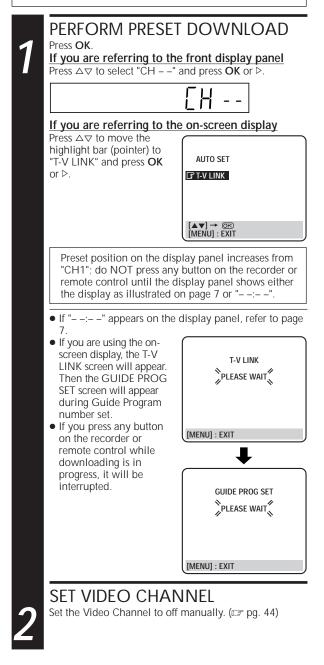


NOTES:

- In the area where no TV station transmits a PDC signal, the recorder can perform neither auto clock set nor auto Guide Program number set.
- If there is a power cut, or if you press 小I or MENU while downloading or set up is in progress, it will be interrupted; be sure to turn off the recorder power once and try again from the beginning.
- Auto clock may not function properly depending on the reception condition.
- When you perform T-V LINK function, be sure to use fullywired 21-pin SCART cable.
- On this recorder, the characters available for station's name (ID) are A–Z, 0–9, −, *, + and – (space). Some downloaded station's name may differ from those of your TV (□ pg. 39).

When you connect the recorder and your TV via fully-wired 21-pin SCART cable (IFF pg. 3), you can set the recorder's tuner channels by downloading preset data from your TV instead of using the Auto Set Up function (IFF pg. 4). After downloading is completed, the recorder sets the clock and Guide Program number automatically. For details, refer to the instruction manual for your TV.

Perform steps ${\bf 1}$ to ${\bf 3}$ of "Auto Set Up" on page 4 and 5 before continuing.



Results of Auto Set Up/Preset Download appear on the front display panel

В

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When both auto channel set and auto clock set have been completed successfully the correct current time will be displayed after the **OK** button is pressed in step **6** on page 5 or in step **1** on page 6. When auto channel set has been completed successfully but auto clock set has not, "1" (channel position) will be displayed after the **OK** button is pressed in step **6** on page 5 or in step **1** on page 6. C - -: - -

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

You can check if the Guide Program numbers have been set correctly when you perform SHOWVIEW Timer Programming ($\square p$ g. 22); if the correct channel position number is displayed in step 3, this confirms that the Guide Program number for the SHOWVIEW number you enter in step 2 has been set correctly.

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

- 1 Turn on the TV and select its VIDEO channel or AV mode, then make sure that all necessary stations have been stored in the recorder's memory by using the **TV PROG** button(s).
 - If station names (ID irg pg. 41) have also been stored in the recorder's memory, the station name will be displayed at the top left corner of the screen for about 5 seconds when the recorder is tuned to a different station.
 - If you want to set the tuner manually such as to add or skip channels, to change channel positions, or to set or change station names, see pages 38 41.

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

- 1 Turn on the TV and select its VIDEO channel or AV mode, then make sure that all necessary stations have been stored in the recorder's memory by using the **TV PROG** button(s).
 - If station names (ID ir pg. 41) have also been stored in the recorder's memory, the station name will be displayed at the top left corner of the screen for about 5 seconds when the recorder is tuned to a different station.
 - If you want to set the tuner manually such as to add or skip channels, to change channel positions, or to set or change station names, see pages 38 41.
- 2 Perform "Clock Set" on page 42.

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

- 1 Make sure the TV aerial cable is connected properly to the recorder and turn off the recorder power once, then turn the recorder power back on again.
 - The Country Set display appears on the front display panel and/or on the screen; perform steps 2 6 on pages 4 5 again or perform the procedure on page 6.

IMPORTANT

- In certain reception conditions, station names may not be stored correctly, and auto Guide Program Number Set may not work properly. If the Guide Program numbers are not set properly, when you timer-record a TV programme using SHOWVIEW, the recorder will record a TV programme of a different station. When programming the timer using SHOWVIEW, be sure to check whether the channel position on which your recorder receives the broadcasting station you wish to record is selected (IZP pg. 22, "SHOWVIEW Timer Programming").
- Your video recorder memorizes all detected stations even if reception of some of them is poor. In these cases picture quality may be poor. To delete those stations with an unacceptable picture re re response response
- For RF connection users: In certain reception conditions, the Video Channel may not be set correctly and interference may appear in the TV picture while the recorder's power is on. Set your Video Channel manually. IF pg. 44, "Video Channel Set".

INFORMATION

Language for the on-screen display

Auto Set Up also selects the language automatically for the on-screen display depending on the Country setting you have made in step 2 on page 4 (unless you have selected BELGIUM or SUISSE), as shown below.

suomi Portugal		SUOMI ENGLISH	DANMARK Österreich		DANSK Deutsch		NEDERLANDS English
DEUTSCHLAND		DEUTSCH	ČESKÁ REPUBLIKA			OTHER WESTERN EUROPE	
POLSKA		POLSK	ITALIA		ITALIANO	OTHER EASTERN EUROPE	 ENGLISH
NORGE		NORSK	MAGYARORSZÁG	-	MAGYAR		
SVERIGE	-	SVENSKA	ESPAÑA	-	CASTELLANO		
If you want to change the language setting manually, 🖙 "Language" on page 8.							

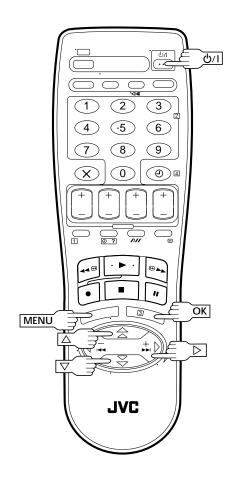
Just Clock

Your recorder is equipped with the Just Clock function which provides accurate time keeping through automatic adjustments at regular intervals, by reading data from a PDC signal. If you want to take advantage of this function, simply set it to "ON". "" "Just Clock" on page 42.

INITIAL SETTINGS (cont.)

Language

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

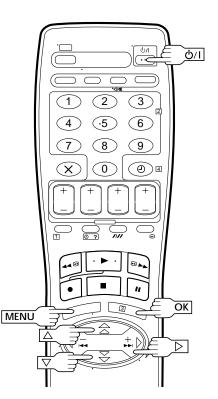


This recorder offers you the choice to view on-screen messages in 13 different languages. Though Auto Set Up selects the language automatically (IP pg. 7), you can change the language setting manually using this procedure as required.

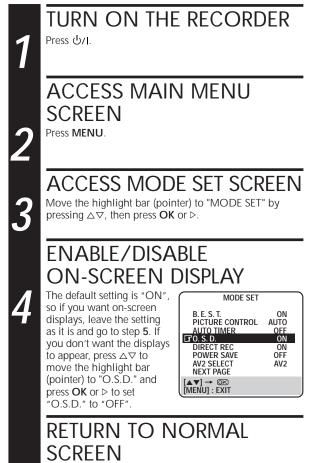


On-Screen Displays

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



You can choose whether or not to have various operational indicators appear on screen, by setting this function ON or OFF. Messages appear in the selected language (IPP pg. 7 or 8).

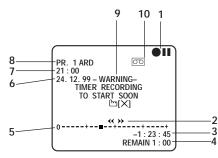


Press MENU.

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 be disturbed depending on the type of tape being used.

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

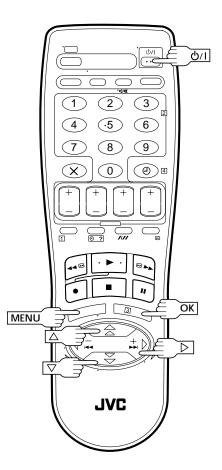


- 1- Operation mode indicators
- 2- Tape direction
- 3- Counter display
- 4- Tape remaining time indicator (IF pg. 18)
- 5- Tape position indicator (127 pg. 13)
- 6- Current day/month/year
- 7– Clock display
- 8- Channel position number and station name/Aux. indicator (L-1 or L-2)
- 9- Timer warning display (127 pg. 23, 25)
- 10- Cassette loaded mark

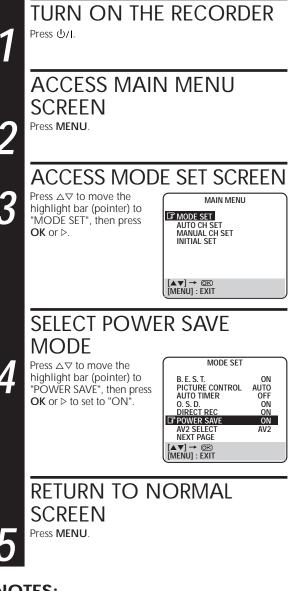
INITIAL SETTINGS (cont.)

Power Save Mode

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



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



NOTES:

- During Power Save, the display panel will be turned off.
- The Just Clock function (🖙 pg. 42) does not work while the Power Save mode is engaged.
- While the recorder is in the Power Save mode, the picture may be distorted momentarily when you turn on/off the recorder.
- Power Save does not work when ...
 - ... the recorder is in the Timer mode.
 - ... the recorder's power is turned off after timer-recording (or Instant Timer Recording).
 - ... the Auto Satellite Prog Recording mode is engaged (IF pg. 28).
 - ... "AV2 SELECT" is set to "DECODER" or "SAT" (III pg. 31).

T-V LINK

T-V Link Functions

When you connect the recorder and your TV via fully-wired 21-pin SCART cable (I pg. 3), the following functions are available. You can use these functions only with the 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.

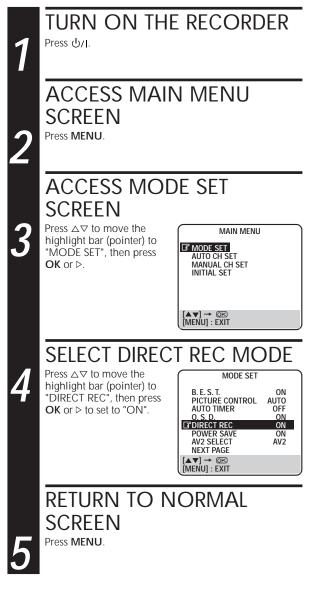
VCR Auto Standby

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.

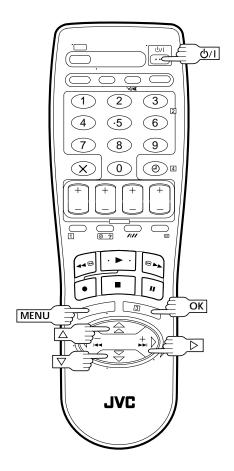


NOTES:

- If "DIRECT REC" is set to "OFF", the RECORD button functions as described in "Basic Recording" (= pg. 17).
- During the Direct Rec, "- -" appears on the display panel.
- When you perform T-V LINK functions, be sure to use the fully-wired 21-pin SCART cable.

INFORMATION ON COLOUR SYSTEM

Colour System Set

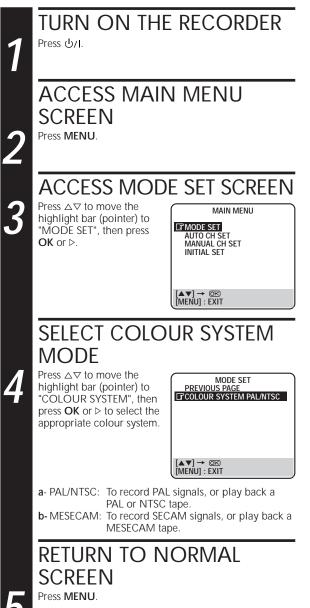


NOTES: About NTSC Playback

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

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

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

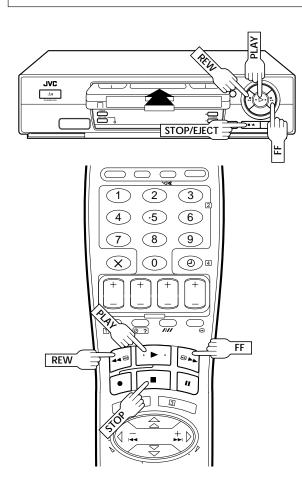


PLAYBACK

en **13**

Basic Playback

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



Tape Position Indicator

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

"O.S.D." (I pg. 9) 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.

Beginning

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

LOAD A CASSETTE

Make sure the window side is up, the rear label side is facing you and the arrow on the front of the cassette is pointed 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**. To go forward, press **FF**.

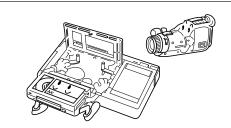
START PLAYBACK

Press **PLAY**. "BEST" appears blinking in the recorder's display panel during automatic tracking. (IP pg. 20)

STOP PLAYBACK

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

Usable cassettes



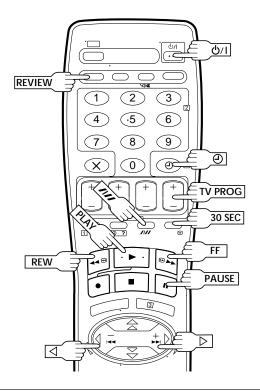
- Compact VHS camcorder recordings can be played on this video recorder. Simply place the recorded cassette into a VHS Cassette Adapter and it can be used just like any full-sized VHS cassette.
- This video recorder can record on regular VHS and Super VHS cassettes. However, it will record and play back regular VHS signals only. It is not possible to play back a recorded Super VHS tape.

1:23:45 REMAIN 2:35

End

Playback Features

 14_{EN}



The \oplus/I , PLAY, FF, REW, PAUSE and TV/PROG buttons on the recorder have the same functions as those on the remote control.

High-Speed Search



ACTIVATE HIGH-SPEED SEARCH

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

To resume normal playback, press PLAY.

NOTE:

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

Still Picture/Frame-By-Frame Playback

PAUSE DURING PLAYBACK



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

ACTIVATE FRAME-BY-FRAME PLAYBACK Press PAUSE.

Press P OR

Press ⊲ or ⊳ (I◄◄ or ►►).

To resume normal playback, press PLAY.

Slow Motion



ACTIVATE SLOW-MOTION PLAYBACK

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 ($\bowtie \triangleleft$ or \triangleright). Release to return to still picture.

To resume normal playback, press PLAY.

Variable-Speed Search



During playback, press ⊲ or ▷ (◄◄ or ►►).

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

To resume normal playback, press PLAY.

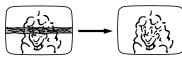
ATTENTION

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

- the picture will be distorted.
- the picture will be distorted
 the noise bars will appear.

Manual Tracking

Your video recorder is equipped with automatic tracking control. During playback, you can override this and adjust the tracking manually by pressing the **TV PROG** buttons.



OVERRIDE AUTOMATIC TRACKING

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

ADJUST TRACKING MANUALLY

Press TV PROG + or – to adjust tracking.

RETURN TO AUTOMATIC TRACKING

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

NOTE:

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

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.

NOTES:

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

Index Search

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

NOTE:

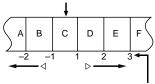
Before starting, make sure the recorder is in the Stop mode.



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

- To access index codes 2 through 9, press ⊲ or ▷ repeatedly until the correct index number is displayed.
 Ex.: To locate the beginning of B from the current
 - position, press < twice. To locate the beginning of D from the current position, press ▷ once.

Current position



Index number

• 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.

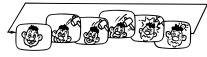
Next Function Memory

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

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

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.

Picture Control

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



ACCESS MODE SET

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

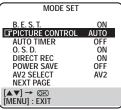
SELECT PICTURE CONTROL SET MODE

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

2

3

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



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

NOTES:

- When you select EDIT, SHARP or SOFT, 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.

NOTES:

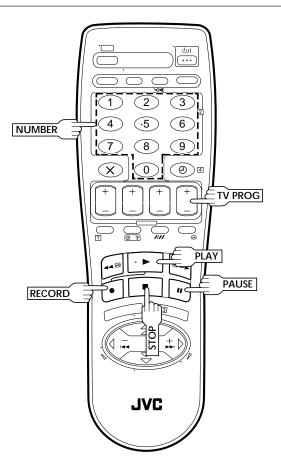
- When B.E.S.T. is OFF, "PICTURE CONTROL" switches automatically from AUTO to NORM.
- Select EDIT when you are dubbing tapes. Refer to page 30.

RECORDING

en **17**

Basic Recording

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



The **PLAY**, **RECORD** and **PAUSE** buttons on the recorder have the same functions as those on the remote control.

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.



Insert a cassette with the record safety tab intact.

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

CHOOSE A PROGRAMME

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

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 the first recording after inserting the cassette ($\Box = pg$. 20).

If "DIRECT REC" is set to "ON", the programme that appears on the TV screen will be recorded (${\rm I\!C\!P}$ pg. 11).

PAUSE/RESUME RECORDING

Press PAUSE. Press PLAY to resume recording.

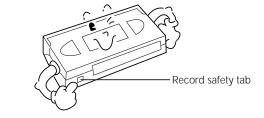
STOP RECORDING

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

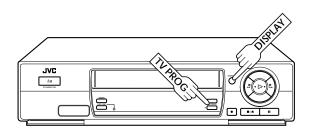
Accidental erasure prevention

Δ

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



Recording **Features**



Record One Programme While Watching Another

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

SELECT CHANNEL TO WATCH

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

- The programme selected with the TV's channel controls appears on the TV screen while the one selected with the recorder's TV PROG buttons is recorded on the tape
- If a decoder is connected to the recorder (pg. 34), you can select a scrambled channel as well with the TV channel controls.

Elapsed Recording Time Indication

You can check the exact time of a recording.

SET COUNTER DISPLAY Press **DISPLAY** or – -: – – until a counter reading

appears on the display panel.

RESET COUNTER

Press 0000 before starting recording or playback.

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

Tape Remaining Time

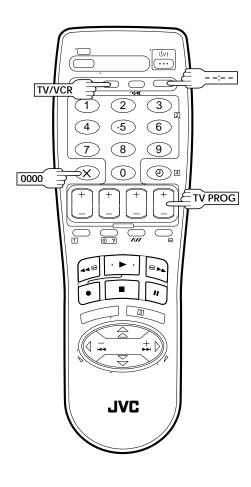
DISPLAY REMAINING TIME

Press DISPLAY or - -:- - 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, channel position*, clock time or tape remaining time. channel position is not displayed during playback.

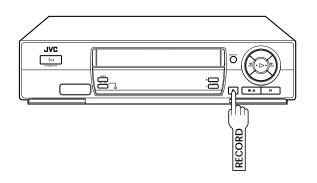
NOTE:

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



Instant Timer Recording (ITR)

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



START RECORDING

Press **RECORD** on the recorder.

ENGAGE ITR MODE

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

SET RECORDING DURATION

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

NOTE:

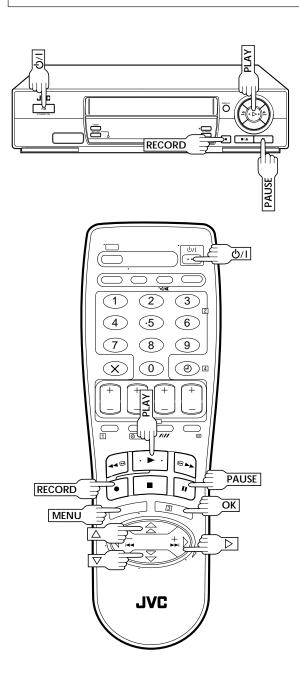
2

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

RECORDING (cont.)

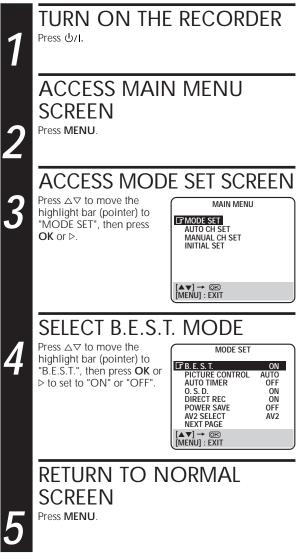
B.E.S.T. Picture System

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



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

Preparation



Recording



START RECORDING

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

DURING B.E.S.T.



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

NOTES:

- The B.E.S.T. system works 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 (E 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 (IF) pg. 18).

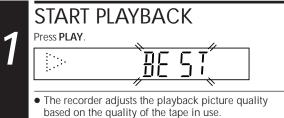
ATTENTION

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

- 1) Press and hold **PAUSE** and press **RECORD** to engage the RECORD PAUSE mode.
 - The recorder then automatically checks the condition of the tape and, after approximately 7 seconds, reenters RECORD PAUSE.
- 2) Press PLAY to start recording.
 - If you want to bypass the B.E.S.T. system and begin recording immediately, set "B.E.S.T." to "OFF" in step 4 on page 20.

Playback

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



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

NOTES:

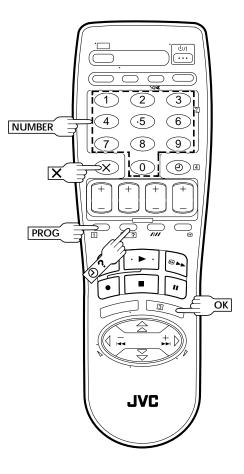
- When watching a tape recorded with "B.E.S.T." set to "ON", it is recommended that you leave B.E.S.T. on during playback as well.
- When watching a rental tape or one recorded on another video recorder, or when using this recorder as the player for editing, set B.E.S.T. to your preference by performing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

TIMER RECORDING

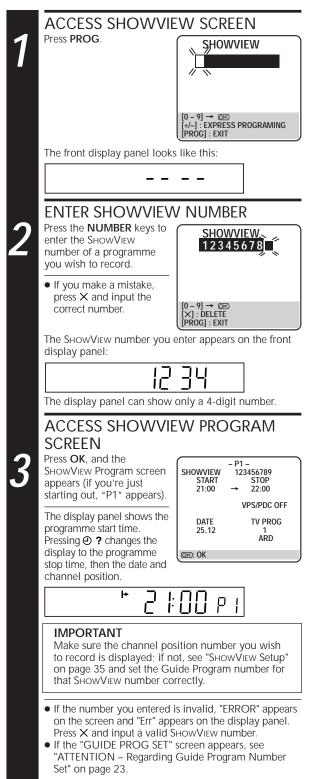


SHOWVIEW Timer Programming

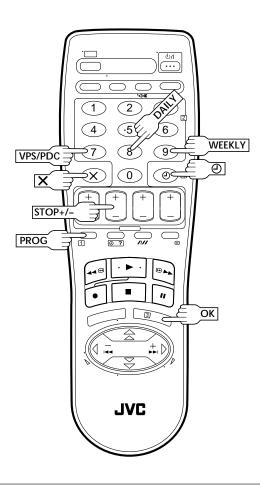
- Before performing SHOWVIEW Timer Programming:
- Make sure that the recorder's built-in clock is set properly.
- Insert a cassette with the safety tab in place. The recorder will come on automatically.
- Turn on the TV and select the VIDEO channel (or AV mode).



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



 $_{EN}23$



Satellite Tuner Users

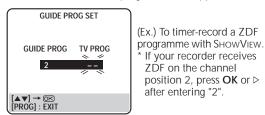
- To timer-record a satellite broadcast using SHOWVIEW:
- I Set "AV2 SELECT" to "AV2" (☞ pg. 31).
- Perform steps 1 6.
- 3 Set the satellite tuner to the appropriate channel before the selected programme begins.
- 4 Leave the satellite tuner's power on.

ATTENTION

Regarding Guide Program Number Set

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

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



SET VPS/PDC MODE

Press **VPS/PDC** to select "ON" or "OFF". If "VPS/PDC ON" is displayed on the screen or "VPS/ PDC" is lit on the display panel, VPS/PDC is set to ON. If "VPS/PDC OFF" is displayed on the screen or "VPS/PDC" is not lit on the display panel, VPS/PDC is set to OFF. IF "VPS/PDC Recording" on page 25.

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 – 5 for each additional programme.

ENGAGE RECORDER'S TIMER MODE

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

• To disengage the timer, press ④ (TIMER) again.

NOTES:

- To Change The Stop Time . . .
 - ... press **STOP** +/- after pressing **OK** in step **3**. You can compensate for anticipated programme schedule delays this way.
- To Timer-Record Weekly Or Daily Serials after pressing OK in step 3, press WEEKLY (NUMBER key "9") for weekly serials or DAILY (NUMBER key "8") for daily serials (Monday – Friday). Either "WEEKLY" or "DAILY" appears on the screen. Pressing the button again makes the corresponding indication disappear.
- You can programme this recorder to timer-record as many as 8 programmes. If you try to programme the recorder to record a ninth, "PROGRAM FULL" appears on screen and "FULL" appears on the front display panel. To record the extra programme, you must first cancel any unnecessary programmes (III) pg. 26).
- It is not possible to timer-record a TV programme with a SHOWVIEW number which starts with "0".

Timer Warning

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

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

NOTES:

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

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

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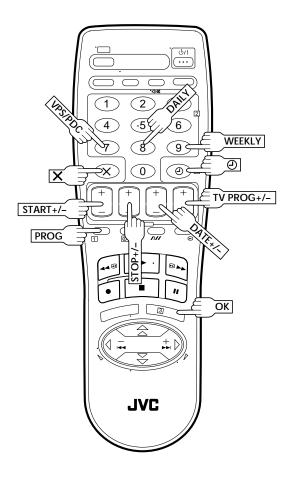
TIMER RECORDING (cont.)

24 EN

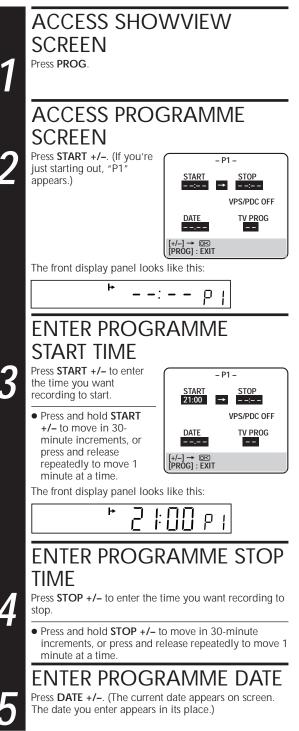
Express Timer Programming

Before performing Express Timer Programming:

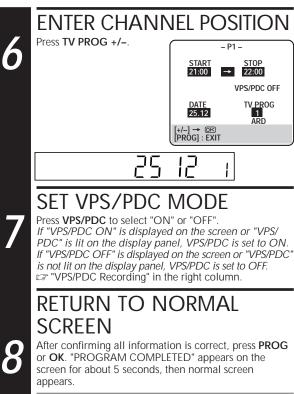
- Make sure that the recorder's built-in clock is set properly.
- Insert a cassette with the safety tab in place. The recorder will come on automatically.
- Turn on the TV and select the VIDEO channel (or AV mode).



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







• Repeat steps 1 – 8 for each additional programme.

ENGAGE RECORDER'S TIMER MODE

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

To disengage the timer, press (TIMER) again.

To Timer-Record Weekly Or Daily Serials . .

. . anytime during steps 2 through 8, 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 (r pg. 26).

Satellite Tuner Users

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

- Šet "AV2 ŠELECT" to "AV2" (☞ pg. 31).
- Perform steps 1 9. Enter "L-2" for the channel position in step 6
- ³ Set the satellite tuner to the appropriate channel before the selected programme begins.
- [4] Leave the satellite tuner's power on.

VPS/PDC Recording

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

NOTES:

ARD

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

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

1 Press - -:- - until the channel position appears on the display panel.

2 Hold down **START**+ for about 5 seconds. "VPS/PDC" appears blinking on the display panel. If a VPS/PDC signal is detected from the station, "VPS/ PDC" will stop blinking. If no VPS/PDC signal is detected from the station, "VPS/ PDC" will blink at a slower rate.

Press – –: – or START+ again to return to normal display.

Timer Warning

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

- WARNING-TIMER RECORDING TO START SOON [X]

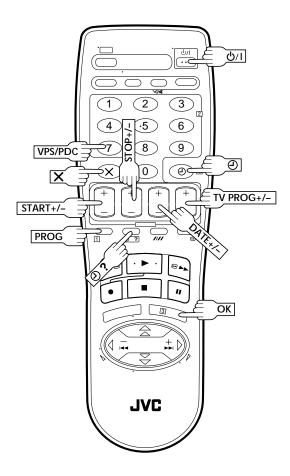
NOTES:

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

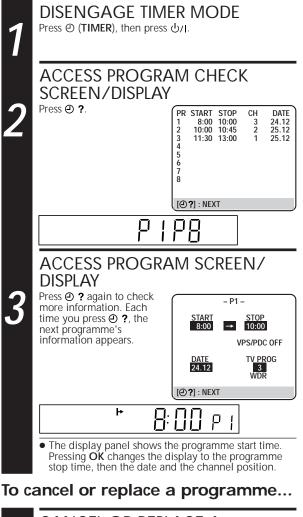
The warning blinks for the entire 5 minutes leading up to the start of timer recording. To clear the display, press X.

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26 en



Check, Cancel And Replace Programmes



CANCEL OR REPLACE A PROGRAMME

Press X to cancel a programme. To replace a programme, press the appropriate button: START+/-, STOP+/-, DATE+/-, TV PROG+/-, VPS/PDC.

RETURN TO NORMAL SCREEN/ DISPLAY

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

RETURN TO TIMER MODE Press @ (TIMER).

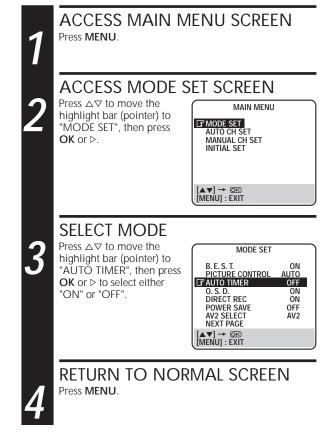
NOTE:

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 I pg. 10) or the recorder is in the Timer mode; however, it is not possible to cancel or replace the programmes.



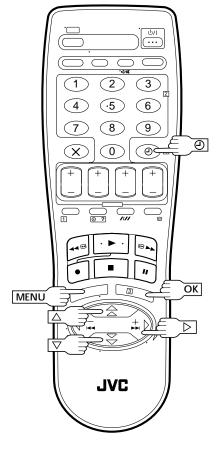
Auto Timer

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



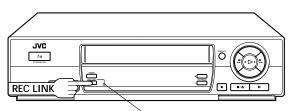
NOTE:

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



TIMER RECORDING (cont.)

Automatic Satellite Programme Recording



` REC LINK indicator

ATTENTION

 28_{EN}

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

This facility allows you record automatically a satellite programme which is timer-programmed on your external satellite tuner. Connect a satellite tuner to the recorder's AV2 IN/DECODER connector (ICP pg. 32) and programme the timer on the satellite tuner; the recorder starts recording when the signals input from the satellite tuner to the AV2 IN/DECODER connector, and when there is no input signals the recorder stops recording and the power shuts off.

Before performing the following steps:

- Make sure the satellite tuner is connected to the
 reserved by MARKED CODER second to the
- recorder's AV2 IN/DECODER connector. (1) pg. 32)
- Programme the timer on the satellite tuner.
 Insert a cassette with the safety tab in place.

SELECT AV2 SELECT MODE

Set "AV2 SELECT" to "AV2" (III pg. 31).

ENGAGE AUTO SATELLITE PROG REC MODE

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

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

NOTES:

- Auto Satellite Prog recording is possible with the AV2 IN/DECODER connector only. (1) pg. 33)
- For timer programming of the satellite tuner, refer to the instruction manual of the satellite tuner.
- Auto Satellite Prog recording is not possible if your satellite tuner does not have a timer.
- The REC LINK indicator blinks while Auto Satellite Prog recording is in progress.
- Pressing the recorder's ψ/I button while Auto Satellite Prog recording is in progress turns off the recorder's power and disengage the Auto Satellite Prog Rec mode.
- The B.E.S.T. system (pg. 20) does not work while Auto Satellite Prog recording is in progress.
- Just Clock (pg. 42) does not work when the Auto Satellite Prog Rec mode is engaged.
- Depending on the type of satellite tuner, the recorder may not record a slight portion of the beginning of the programme or may record slightly longer than the actual length of the programme.
- If you engage the Auto Satellite Prog Recording mode when the satellite tuner's power is on, the recorder will not start Auto Satellite Prog recording even though the REC LINK indicator blinks. When the satellite tuner shuts off once and is turned back on again, the recorder starts recording.
- When the Auto Satellite Prog Rec mode is engaged or the recorder's power is turned off after Auto Satellite Prog recording is finished, the recorder will not enter the Timer mode even though "AUTO TIMER" is set to "ON".
- After Auto Satellite Programme recording, the number of recorded programmes will not be displayed on the front display panel for the Instant ReView function (☞ pg. 15).
- You can also record a programme from your cable system in the same way if the system has a timer.
- When you press and hold the recorder's **REC LINK** button to engage the Auto Satellite Prog Rec mode, if the REC LINK indicator does not light but instead blinks quickly even though your satellite receiver's power is off, Auto Satellite Prog Recording will not work properly with that satellite receiver*.

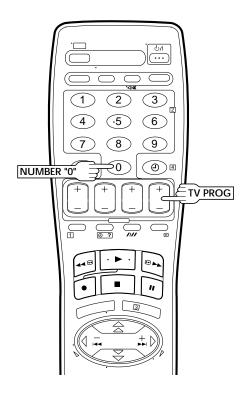
If this is the case, perform "Express Timer Programming" (🖙 pg. 24) to timer-record a satellite programme.

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

EDITING



Edit From A Camcorder



Vour recorder

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 AV2 IN/DECODER or AV1 IN/OUT connector via the cable adapter.

SET RECORDER'S INPUT MODE

Press **NUMBER** key "0" and/or **TV PROG** to select depending on the connector being used — "L-1" for the AV1 IN/OUT connector, or "L-2" for the AV2 IN/ DECODER connector.

• When using the AV2 IN/DECODER connector, make sure "AV2 SELECT" is set to "AV2" (IIF pg. 31).

SET EDIT MODE

See "Picture Control" on page 16.

START CAMCORDER

Engage its Play mode.

START RECORDER

Engage its Record mode.

NOTES:

3

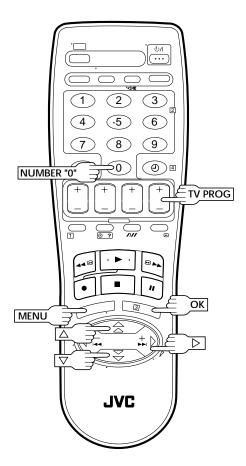
- All necessary cables can be obtained from your dealer.
- When you select EDIT to dub tapes in step **3**, be sure to select AUTO (or NORM when B.E.S.T. is set to OFF) after you finish dubbing the tapes.



EDITING (cont.)

30 EN

Edit To Or From Another Video Recorder



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

MAKE CONNECTIONS

Connect the player's 21-pin SCART (AV) connector to the recorder's 21-pin SCART (AV) connector as illustrated on page 31.

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

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

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 depending on the connector being used — "L-1" for the AV1 IN/OUT connector, or "L-2" for the AV2 IN/DECODER connector.

• When using the AV2 IN/DECODER connector, make sure "AV2 SELECT" is set to "AV2" (IIP pg. 31).

SET EDIT MODE

See "Picture Control" on page 16.

START SOURCE PLAYER

Engage its Play mode.

START RECORDING DECK

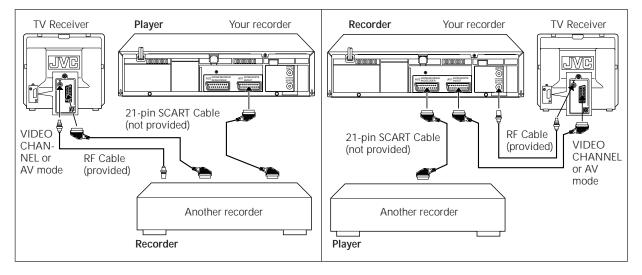
Engage its Record mode.

NOTES:

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- 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. 9).



AV2 SELECT Setting Press **MENU** to access the Main Menu screen. MODE SET Press $\Delta \nabla$ to move the highlight bar (pointer) to "MODE SET", then press **OK** or \triangleright . 2 B. E. S. T. ON 3 Press $\Delta \nabla$ to move the highlight bar (pointer) to "AV2 SELECT". PICTURE CONTROL AUTO TIMER AUTO OFF 4 Press OK or ▷ to select "AV2", "DECODER" or "SAT". O. S. D. DIRECT REC ON a-AV2 : To use this recorder as the recording deck with the player connected to the ON AV2 IN/DECODER connector, or to use the satellite tuner connected to the ON AV2 POWER SAV AV2 IN/DECODER connector. NEXT PAGE **b**-DECODER : To use a decoder connected to the AV2 IN/DECODER connector. $[\blacktriangle \lor] \rightarrow \bigcirc$ [MENU] : EXIT c-SAT : To view a satellite programme with the TV set while the recorder is in Timer mode, in Stop mode, recording or turned off. (E pg. 32) 5 Press MENU to return to normal screen. If you have a decoder connected to the AV2 IN/DECODER connector, be sure to set "AV2 SELECT" back to "DECODER" after editina. If you're not connecting 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 decoder, be sure to set "AV2 SELECT" back to "DECODER".

SYSTEM CONNECTIONS

Connection To A Satellite Tuner

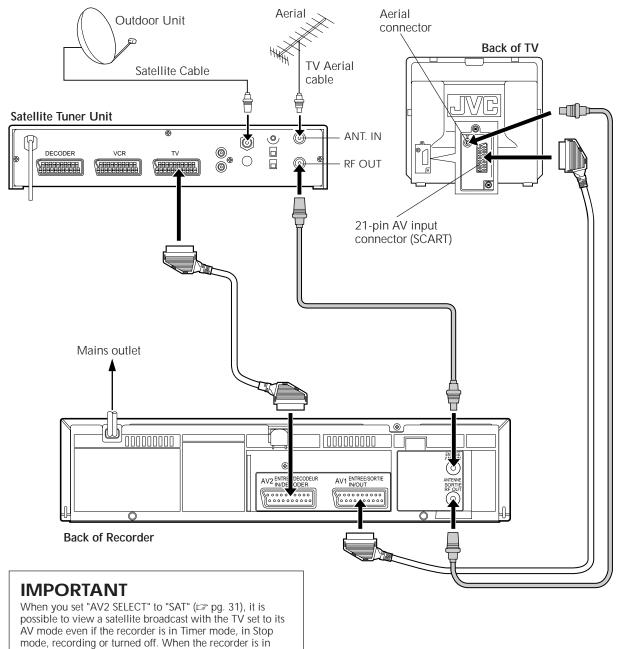
Stop mode or recording, press **TV/VCR** on the remote control to turn off the VCR indicator on the display panel.

If you don't have a decoder . . .

Connect the satellite tuner to the video recorder's AV2 IN/ DECODER connector, then connect the recorder's AV1 IN/OUT connector to the TV's 21-pin SCART connector.

NOTES:

- Set "AV2 SELECT" to "AV2". (☞ pg. 31)
- You can use Automatic Satellite Program Recording function (CF pg. 28) with this connection.
- To view a programme via the satellite tuner, select L-2 mode by pressing NUMBER keys and/or TV PROG so that "L-2" appears on the display panel.
- For details, refer to the instruction manual for the satellite tuner.



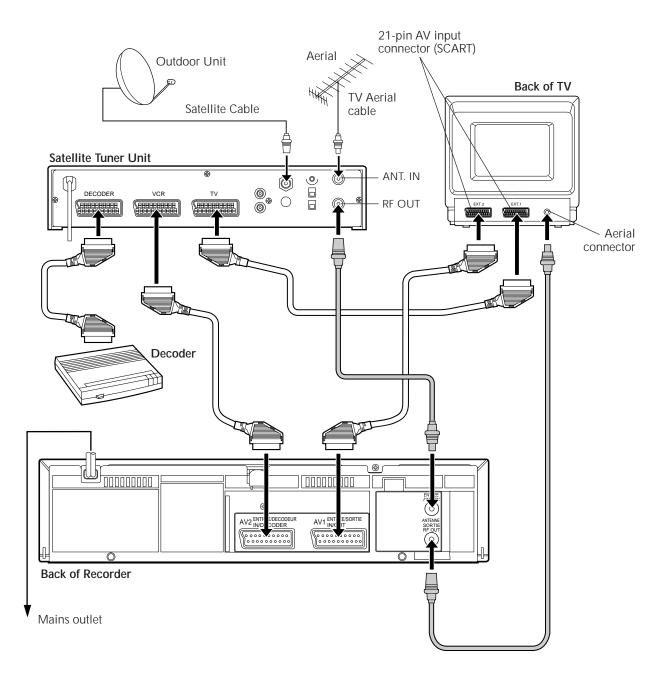


If you have a decoder . . .

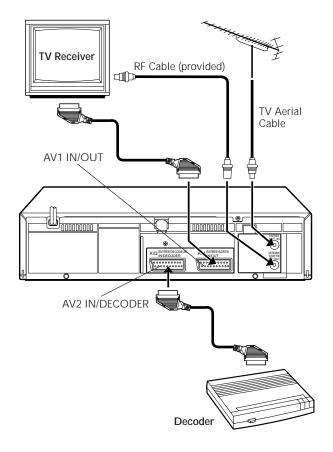
Connect the decoder to the satellite tuner's connector, AV1 IN/ OUT connector to TV's connector, and AV2 IN/DECORDER connector to the satellite tuner's connector. Then connect the satellite tuner and TV.

NOTES:

- Set "AV2 SELECT" to "AV2". (🖙 pg. 31)
- To view a programme via the satellite tuner, select L-2 mode by pressing **NUMBER** keys and/or **TV PROG** so that "L-2" appears on the display panel.
- To receive a scrambled broadcast, descramble the signal with the satellite tuner.
- For details, refer to the instruction manual for the satellite tuner and decoder.



Connecting/ Using A Decoder



SYSTEM CONNECTIONS (cont.)

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

SELECT INPUT MODE

Set "AV2 SELECT" to "DECODER". (🖙 pg. 31)

CONNECT DECODER

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

SET TUNER

Perform the procedure as described in "When Receiving A Scrambled Broadcast" on page 39.

SHOWVIEW Setup

IMPORTANT

Normally, Auto Set Up (27 pg. 4), Preset Download (27 pg. 6) or Auto Channel Set (27 pg. 36) sets the Guide Program Numbers automatically. You need to set the Guide Program Numbers manually only in the following cases.

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

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

Guide Program Number Set

ACCESS MAIN MENU SCREEN Press MENU.

ACCESS INITIAL SET SCREEN

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

ACCESS GUIDE PROG SET SCREEN

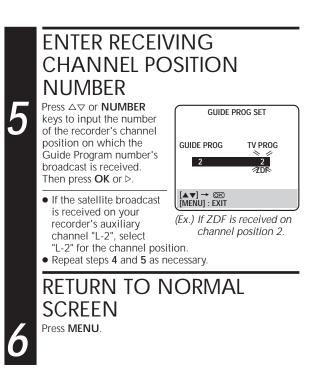
Press $\triangle \bigtriangledown$ to move the highlight bar (pointer) to "GUIDE PROG SET", then press **OK** or \triangleright .

ENTER GUIDE PROG NUMBER

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



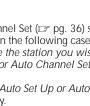
(Ex.) When inputting the Guide Program number 2 for ZDF.

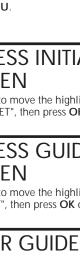


EN 3

Guide Program Number

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



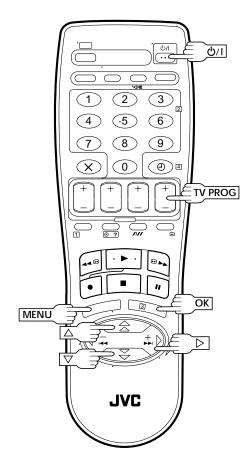






Tuner Set

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



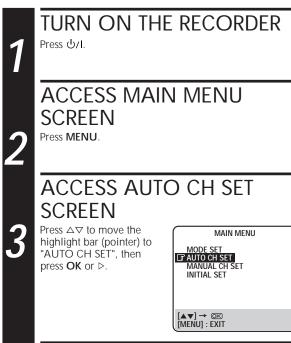
IMPORTANT

Perform the following steps only if ---

- Auto Channel Set has not been set correctly by Auto Set Up function or by Preset Download (IFP pg. 4, 6).
- you have moved to a different area or if a new station starts broadcasting in your area.

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

Auto Channel Set



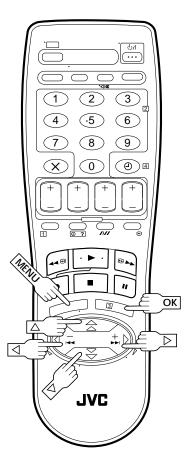
SELECT COUNTRY

Press $\triangle \nabla$ to move the highlight bar (pointer) to your country's name, then press **OK** or \triangleright .

SELECT LANGUAGE

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

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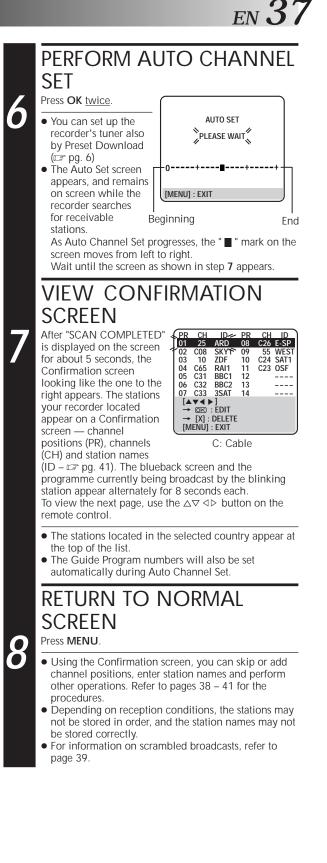


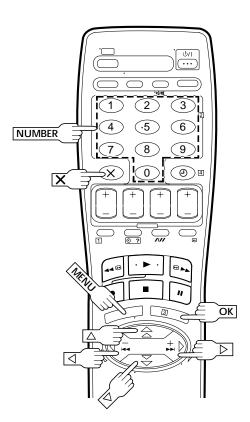
IMPORTANT

- In certain reception conditions, station names may not be stored correctly, and auto Guide Program Number Set may not work properly. If the Guide Program numbers are not set properly, when you timer-record a TV programme using SHOWVIEW, the recorder will record a TV programme of a different station. When programming the timer using SHOWVIEW, be sure to check whether the channel position on which your recorder receives the broadcasting station you wish to record is selected (IFF pg. 22, "SHOWVIEW Timer Programming").
- Your video recorder memorizes all detected stations even if reception of some of them is poor. In these cases picture quality may be poor. To delete those stations with an unacceptable picture I "Delete A Channel" on page 39.

NOTES:

- Fine tuning is performed automatically during Auto Channel Set. If you want to perform it manually, refer to page 40.
- If you perform Auto Channel Set when the aerial cable is not connected properly, "SCAN COMPLETED -NO SIGNAL-" appears on the screen in step 7. When this happens, make sure of the aerial connection and press OK; Auto Channel Set will take place again.





Storing Channels Manually

Store channels that were not stored during Auto Set Up (IF pg. 4), Preset Download (IF pg. 6) or Auto Channel Set (IF pg. 36).

ACCESS MAIN MENU Press MENU.

ACCESS CONFIRMATION **SCREEN**

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

SELECT POSITION (Ex.) To store in position 12.

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

PR	CH	ID	PR	CH	ID	
01	25	ARD	08	C26	E-SP	
02	CDB	SKY1	09	55	WEST	
03	10	ZDF	10	C24	SAT1	
04	C65	RAI1	<u> ≈11</u>	C23	OSF -	
05	C31	BBC1	12			
06	C32	BBC2	≈ 13		`	
07	C33	3SAT	14			
[▲						
→ ©K : EDIT						
→	\rightarrow [X] : DELETE					
[MENU] : EXIT						

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

SUBSIDIARY SETTINGS (cont

SELECT BAND Press $\Delta \nabla$ to change the band between CH (regular) and CC (cable), then PR CH ID FINE DECODER 12 CH01 ---- +/- OFF press ⊳. : SELECT [◀▶] : CURSOR ◀ ⓒK : OK [MENU] : EXIT

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.

- Input "0" before any single number entries.
- To input the registered station name (ID IF pg. 41), press ▷ until "----" (ID setting) begins blinking, then press $\Delta \nabla$.
- For fine tuning adjustment, press ▷ until "+/-" begins blinking, then press $\Delta \nabla$. While tuning, "+" or "appears.
- When storing a channel that sends scrambled broadcasts, press ▷ until "OFF" (Decoder setting) blinks, then press $\Delta \nabla$ to set "DECODER" to "ON" ("OFF" is the default setting).
- When "AV2 SELECT" is set to "AV2", the "DECODER" setting cannot be changed (r pg. 31).

ENTER NEW CHANNEL **INFORMATION**

Press OK and the Confirmation screen appears.

Repeat steps 3 through 6 as necessary.

CLOSE CONFIRMATION SCRFFN

Press MENU.

6

- To change positions, see "Change Station Channel Position" (2 pg. 39).
- If you wish to set station names other than the ones registered in your recorder, 🖙 "Set Stations (B)" on page 40.

ATTENTION

Guide Program numbers are not set when channels are stored manually. If an attempt is made at timer programming with SHOWVIEW 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. 23.

Or perform "Guide Program Number Set" (17 pg. 35).

Delete A Channel

Perform steps 1 and 2 of "Storing Channels Manually" on page 38 to access the Confirmation screen before continuing.

SELECT ITEM

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

DELETE CHANNEL

Press X.

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

CLOSE CONFIRMATION SCREEN Press MENU.

Change Station Channel Position

Perform steps 1 and 2 of "Storing Channels Manually" on page 38 to access the Confirmation screen before continuing.

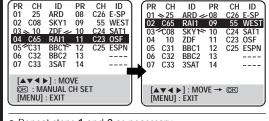
SELECT ITEM

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

SELECT NEW POSITION

Press $\Delta \bigtriangledown \triangleleft \triangleright$ to move the station to the new channel position, then press **OK**.

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



Repeat steps 1 and 2 as necessary.

CLOSE CONFIRMATION SCREEN Press MENU.

NOTE:

The characters available for the station name (ID) are A–Z, 0–9, –, \star , +, - (space) (maximum of 4).

When Receiving A Scrambled Broadcast

SELECT DECODER MODE

Set "AV2 SELECT" to "DECODER" (I pg. 31).

ACCESS CONFIRMATION

Perform steps 1 and 2 of "Storing Channel Manually" on page 38.

EN 30

SELECT POSITION

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

CHANGE DECODER SETTING

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

RETURN TO CONFIRMATION SCREEN

Press OK.

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• Repeat steps 3 through 5 as necessary.

CLOSE CONFIRMATION SCREEN Press MENU.

ATTENTION

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

SHOWVIEW 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. 23.

Or perform "Guide Program Number Set" (I pg. 35).

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Fine-Tuning Channels Already Stored

Perform steps 1 and 2 of "Storing Channels Manually" on page 38 to access the Confirmation screen before continuing.

SELECT CHANNEL TO FINF-TUNF

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

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

CLOSE CONFIRMATION SCREEN

Press MENU

Set Stations (A)

Set station names that are registered in your recorder.

Perform steps 1 and 2 of "Storing Channels Manually" on page 38 to access the Confirmation screen before continuing.

SELECT ITEM

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

ACCESS MANUAL CHANNEL SET SCREEN

Press OK twice.

SUBSIDIARY SETTINGS (cont



Press ▷ until the station name (ID) begins blinking, then press $\triangle \nabla$ until the new station's name (ID) you want to store begins blinking. Registered station names (🖙 pg. 41) appear as you press $\Delta \nabla$.



SWITCH STATIONS

Press OK.

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

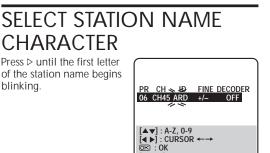
CLOSE CONFIRMATION SCRFFN

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 38 to access the Confirmation screen and then perform step 1 and 2 of "Set Stations (A)" on the left before continuing.



[MENU] : EXIT

FNTER NEW CHARACTER

Press $\Delta \nabla$ 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.
- If you make a mistake, press < until the incorrect character begins blinking. Then enter the correct character by pressing $\Delta \nabla$.

CLOSE CONFIRMATION SCREEN Press MENU

2

TV Station And ID List

1000 TV1000 OPF2 OPF2 SAT ADUT ADUT OPF3 OPF3 ADIT ADUT ADUT OPF3 OPF3 ANT3 ANTENAS PREM PREMERE ARD ART ART RAT OPF3 ART ART RAT RAT RAT BBC BBC GROUP RA13 RA1 RA1 BBC1 BBC GROUP RA12 RA12 RA12 C+ CAMALES RTL RTE RT1 C1 PORTUCUSES RTL RT1 RT12 CH4 CHANNEL5 RT14 RT12 RT12 CH4 CHANNEL5 RT15 RT15 RT15 CH4 CHANNEL5 RT15 SAT SAT SAT CMT CMT CMT SAT SAT SAT CANALES RT15 SAT SAT SAT CANALES RT15 SAT SAT	ID*	STATION NAME	ID*	STATION NAME
JSAT ORF3 ORF3 ORF3 ADLT ADULT OWL3 OWL3 ANT3 ANTENA3 PREM PREM ARD ARD PRO7 PRO7 ART ART ART PRO7 PRO7 ARTE ART ART RAT RAT BCC BCCRUP RAT RAT RAT BBC1 BC BCRUP RAT RAT BC2 BCRNS 21 RTF RET C1 PORTUCUSES RTBF RET RT CANS CANALFLS RTLS RTD RT CHL CHANNELS RTS RT CH CHT CHID RTP RTP CI CINF CHANNELS RTS SAT SAT CINF CHANNELS RTS SAT SAT CMT CMT SAT SAT SAT CANN CMT SAT SAT </td <td>1000</td> <td>TV1000</td> <td>ORF2</td> <td>ORE2</td>	1000	TV1000	ORF2	ORE2
ADLTADULTOWL3OWL3ANT3ANTENASPREMPREMIEREARDARDPRO7PRO7ARDARDPRO7PRO7ARDARDRA11RA11BECBEC GROUPRA12RA12BBC1BEC GROUPRA12RA12BC3BBC1RA13RA14BC4BC5RA15RA14BC7CAMALESRTBRTLC1PORTUGUSTSRTLRTL2C1CHANNEL5RTL4RTL4C14CHANNEL5RTL4RTL5CH4CHANNEL5RTL5RTL5CH4CHANNEL5RTL5RTL5CH4CHANNEL5RTL5RTL5CH4CHANNEL5RTPRTPCH0CHILDSATSCHWETZ4CLIDCHILDSATSCHWETZ4CLIDCHILDSKYSKYCLINEANDALUCIASICSOCIDADEDISCOVERYSKYSKY CHANNELDRDSCDSFSRTLSUSCOVERYSVT17SVT1DRDSFSVT17SVT1DRDSFSVT17SVT1DREH005PORTSSVT2SVT17FT22ETB2ETB2SVT17ETB1ETEMTELEFR24France3TTN3TT1TNTTN1TN1TNTTN1TN1TNTTN1TN1TNTTN1TN1T				
ANT3ANTTNA3PREMPREMIREARDARDPRO7PRO7ARTEARTERA11RA11BBCBBC GROUPRA12RA12BBC1BBC GROUPRA12RA13BBC2BBC2BC2RE14RET44BR3BATERNBZTTEL21C1DATUGUSSTSRTLRTL2RTL2CAN5CANALESRTL4RTL4RTL4CH4CHANNEL5RTL4RTL5CH5CHANNEL5RTL5RTL5CH4CH4NNEL4RTL4RTL4CH5CHANNEL5RTL5RTL5CH6CHANNEL5RTL5RTL5CH7CMTCANTSAT1CH6CHNNEL4RTL5STT1CMTCMTSSSSBSCNNCNNSSCSOCOPAPECSURANDAUUCIASICSOCOPAPEDSCDSCOVERYSVT1SVT1CH7ETB1SIARSIAF1VETB1ETB1SIARSIAF1VEUROSSVT1SVT1SVT1EUROSSVT1SVT1EUROSSVT1SVT1EUROSFTS1TF1FR2FRANCETF1FR2FRANCETF1FR3ELROSSVT1SVT1SVT1SVT1EUROSPORTSSVRSUEDWES3FFMMFEMMATF1FR2FRANCETF1FR3FRANCETF1<				
ARD ARD PRO7 PRO7 ARTE ARTE RA11 RA11 RA11 BBC BBC (ROUP RA12 RA12 BBC1 BBC2 BBC1 RA13 RA13 BBC2 BBC2 RE14 RET44 RET44 C+ CANALPUS RTBF RTB1 or 2 C C++ CANALES RTL RTL RTL CANS CANALES RTLS RTL RTL CHA CANALES RTLS RTL RTP CHD CHINELS RTLS RTP RTL CHD CHINELS RTL STA1 SAT1 CLUB TELCUB SAT1 SAT1 SAT1 CLUB CANT SKY SVCHWEIZ4 SVT1 CLUB TELCUB SAT1 SAT1 SAT1 CLUB SAT1 SVCHWEIZ4 SVT1 SVCHWEIZ4 CLUB SAT1 SVCHWEIZ4 SVT1 SVCHWEIZ4 <td></td> <td></td> <td></td> <td></td>				
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BBC BBC (ROUP RAI2 RAI2 RAI2 BBC1 BBC1 RAI3 RAI3 RAI3 BBC2 BBC2 RET4 RET4 RET4 BBC3 BAYEN3 21 RET4 RET4 C+ CANALPLUS RTB RTL RTL C+ CANALES RTL RTL RTL CANS CANALES RTL RTL2 RTL3 CANS CANALES RTL2 RTL3 RTL3 CH4 CHANRELA RTL3 RTL3 RTP CH4 CHADE RTP RTP RTP CH4 CHADE RTP RTP RTP CUB CANT SAT1 SAT1 SAT1 CSC DSCOVERV SKY SKY NEWS				
BBC2 BBC2 RET4 RET4 RET4 RET4 BR3 BAYERN3 21 TELE21 C+ CANAL PLUS RTBF RTBF1 or 2 C1 PORTUGUSES RTL RTL CAN5 CANALES RTL4 RTL4 CH4 CHANNEL4 RTL4 RTL4 CH5 CHANNEL5 RTP RTP CHUE CHUEMA SAT1 SAT1 CUB TELECLUB SAT1 SAT1 CMT CMT SBS SBS CMT CMT SBS SBS CMT CMT SBC SCC CMT CMT SBS SBS CAN CNN SBS SBS DISC DISCOVERY SKY SKY CHANNEL DR DRS SRT SUEDWENT DR DRS SRT SUEDWENT CHAN DRS SRT SUEDWENT DR DRS				
BR3 BAYERN3 21 TEL21 C+ CANAL PLUS RTBF RTBF or 2 C1 PORTUGUSES RTL RTL2 CANS CANALE5 RTL2 RTL3 CH4 CHANNEL5 RTL5 RTL5 CH4 CHANNEL5 RTL5 RTL5 CHLD CHANNEL5 RTL5 RTL5 CHUB CHUCUSES SAT1 SAT1 CHUB CHUCUSES SAT1 SAT1 CHUB TELECUB SAT1 SAT1 CMT CMT SBS SBS CNN CMT SBS SBS CNN CMT SKY SAT1 DR DR TV SKYN SKYCHANNEL DR DRS DRS SRTL SUPER FTL ETB1 ETB1 STAR STAR-TV ETB2 ETB1 STAR STAR-TV ETB2 ETB1 ETB1 SVT1 EUROSPORTS SWR	BBC1	BBC1	RAI3	RAI3
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NED3NED3VTMVTMNEWSWDR1West1NICKNICKELODEONWDR3West3NRKNRKYLE1YLE1NRK2NRK2YLE2YLE2ODEODEONZDFZDF				
NEWSWDR1West1NICKNICKELODEONWDR3West3NRKNRKYLE1YLE1NRK2NRK2YLE2YLE2ODEODEONZDFZDF				
NICKNICKELODEONWDR3West3NRKNRKYLE1YLE1NRK2NRK2YLE2YLE2ODEODEONZDFZDF		INED3		
NRKNRKYLE1YLE1NRK2NRK2YLE2YLE2ODEODEONZDFZDF				
NRK2NRK2YLE2YLE2ODEODEONZDFZDF		1		
ODE ODEON ZDF ZDF				
		1		
			∠ I V	

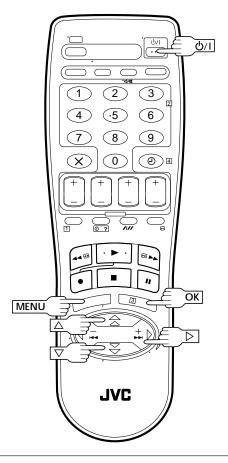
* The "ID" abbreviation is what is shown on-screen in lieu of the station name. The "ID" abbreviation is listed in the Confirmation screen and is displayed on the TV screen when the recorder is tuned to a different station.

 42_{EN}

SUBSIDIARY SETTINGS (cont.)

Clock Set

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



Just Clock

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

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

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

IMPORTANT

If you performed Auto Set Up (IIF pg. 4), Preset Download (IIF pg. 6) or Auto Channel Set (IIF pg. 36), without ever having set the clock previously, the recorder's built-in clock is also set automatically.

Perform the following steps only if -

- Auto Clock Set has not been performed correctly by Auto Set Up, Preset Download or Auto Channel Set. or
- the recorder's memory backup has expired.
 or

TURN THE RECORDER ON

Press U/

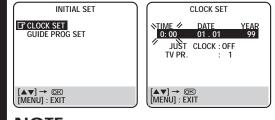
ACCESS MAIN MENU SCREEN Press MENU.

ACCESS INITIAL SET SCREEN

Move the highlight bar (pointer) to "INITIAL SET" by pressing $\triangle \bigtriangledown$, 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.



NOTE:

Λ

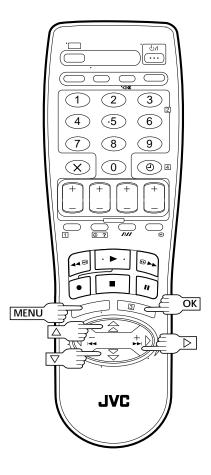
When you have selected MAGYARORSZAG (36), CESKA REPUBLIKA (42), POLSKA (48) or OTHER EASTERN EUROPE (EE) for the country setting (C, pg. 4, 8), you cannot use Just Clock function. Skip steps 6 and 7 on page 43.

Set date and time

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

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

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SET JUST CLOCK

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

- For the Just clock function, I "Just Clock" on page 42.
- If you set to "OFF", you can disregard the next step as you won't be able to receive regular clock adjustments.

SET CLOCK DATA SOURCE CHANNEL POSITION

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

START CLOCK OPERATION Press MENU.

NOTES:

6

- Just Clock (when set to "ON") adjusts the recorder's built-in clock every hour, except for 23:00, 0:00, 1:00 and 2:00.
- Just Clock is not effective when . . . – the recorder's power is on.
 - the recorder is in the Timer mode.
 - a difference of more than 3 minutes exists between the built-in clock's time and the actual time.
 - the recorder is in the Auto Satellite Prog Rec mode (CF pg. 28).
 - the recorder is in the Power Save mode (🖙 pg. 10).
- 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 depending on the reception condition.

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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

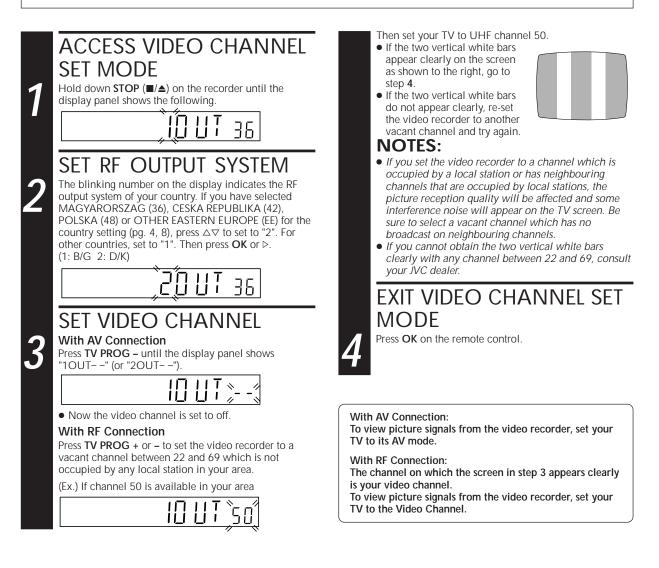
Perform the following steps only if -

- Video Channel Set has not been done correctly by the Auto Set Up function (IIF pg. 4).
- you set up the recorder's tuner by Preset Download (IIF pg. 6) instead of using the Auto Set Up function.
- 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.

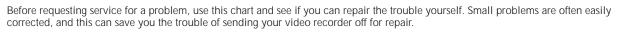
If you have connected the video recorder to your TV via both the RF cable and a 21-pin SCART cable (AV connection), since you do not need the video channel you have to set the video channel to off.

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

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



TROUBLESHOOTING



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POWER					
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION			
1. No power is applied to the recorder.	• The mains power cord is discon- nected.	Connect the mains power cord.			
2. The clock is functioning properly, but the recorder cannot be powered.	 "O" is displayed on the display panel with Auto Timer set to "OFF". 	Press the O button to turn the "O" indicator off.			
3. The remote control won't function.	• The batteries are discharged.	Replace the dead batteries with new ones.			
TAPE TRANSPORT					
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION			
1. The tape does not run during recording.	 """ is displayed on the display panel. 	Press PLAY to turn the """ indicator off.			
2. The tape will not rewind or fast- forward.	 The tape is already fully rewound or fast-forwarded. 	Check the cassette.			
PLAYBACK					
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION			
 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 connec- tion set the TV receiver to the VIDEO channel. ((1) pg. 5) perform "Video Channel Set". ((1) pg. 44) If you are using the AV connection, set the TV to its AV mode.			
2. Noise appears during visual search.	• This is normal.				
 Noise appears during normal playback. 	• The automatic tracking mode is engaged.	Try manual tracking. (🖙 pg. 15)			
 The playback picture is blurred or interrupted while TV broadcasts are clear. 	 The video heads may be dirty. 	Consult your JVC dealer.			
RECORDING					
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION			
1. Recording cannot be started.	 There is no cassette loaded, or the cassette loaded has had its Record Safety tab removed. 	Insert a cassette, or using adhesive tape, reseal the slot where the tab was removed.			
2. TV broadcasts cannot be recorded.	• "L-1" or "L-2" has been selected as the input mode.	Set to the desired channel.			
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" or "L-2".			
 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" or "L-2".			



TROUBLESHOOTING (cont.)

TIMER RECORDING					
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION			
1. 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 "②" 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.			
 "④" and "匹" 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.			
 The cassette is automatically ejected, and "@" and "[™] 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.			
 "O" blinks for 10 seconds and the Timer mode is disengaged. 	 As been pressed when there are no programs in memory, or the timer record information has been programmed incorrectly. 	Check the programmed data and re- program as necessary, then press @ again.			
 The cassette is automatically ejected, the power shuts off and "O" and "OO" 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.			
 SHOWVIEW does not timer-record properly. 	 The recorder's channel positions have been set incorrectly. 	Refer to "Guide Program Number Set" and re-perform the procedure (IP pg. 35).			
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 (🖙 pg. 38).			
3. The channel cannot be changed.	• Recording is in progress.	Press PAUSE to pause the recording, change channels, 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 (IFF pg. 4).			

QUESTIONS AND ANSWERS

PLAYBACK

Q. What happens if the end of the tape is reached during playback or search?A. The tape is automatically rewound to the beginning.	Q. When I pause an of the recording the beginning of does this happen
Q. Can the video recorder indefinitely remain in the still mode?	A. This is normal. It resume points.
A. No. It stops automatically after 5 minutes to protect the heads.	Q. Can the video re Record-Pause m
Q. During search, slow, still and frame-by-frame playback, I can't hear any audio. What's the problem?	A. No. The video rematically after 5
A. This is normal.	 Q. What happens if A. The video record beginning.
Q. When returning from multi-speed search to normal playback, the picture is disturbed. Should I be concerned about this?	TIMER RECORDING
A. No, it is normal.	Q. "⊜" and "⊕" rem a problem?
	A. No. This is a norr
the problem?	progress.
the problem? A. This is normal.	
 the problem? A. This is normal. Q. Other than preventing further recording, what effect does removing the Record Safety tab have? 	progress.
 A. This is normal. Q. Other than preventing further recording, what effect 	progress. Q. Can I programm tape or a TV bro A. You won't see the screen menu, bu

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 paula.
resume points.
Q. Can the video recorder indefinitely remain in the Record-Pause mode?
A. No. The video recorder goes to its Stop mode auto- matically after 5 minutes to protect the heads.
Q. What happens if the tape runs out during recording?A. The video recorder automatically rewinds it to the beginning.
TIMER RECORDING
Q. "()" and "()" remain lit on the display panel. Is there a problem?
A. No. This is a normal condition for a timer recording in
progress.
•
progress. Q. Can I programme the timer while I'm watching a
progress.
 progress. Q. Can I programme the timer while I'm watching a tape or a TV broadcast? A. You won't see the picture as it is replaced by the onscreen menu, but the audio from the programme or tape you're viewing can be heard.
 progress. Q. Can I programme the timer while I'm watching a tape or a TV broadcast? A. You won't see the picture as it is replaced by the onscreen menu, but the audio from the programme or tape you're viewing can be heard. Q. Is it possible to timer-record a TV programme
 progress. Q. Can I programme the timer while I'm watching a tape or a TV broadcast? A. You won't see the picture as it is replaced by the onscreen menu, but the audio from the programme or tape you're viewing can be heard.

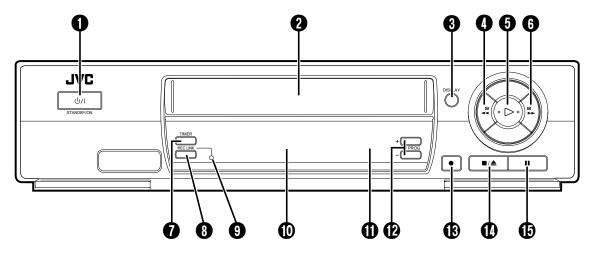
 $_{EN}47$

ATTENTION

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



FRONT VIEW

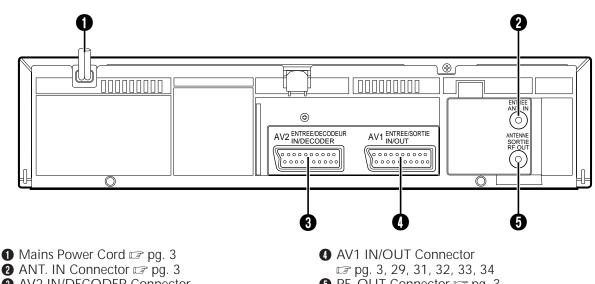


- 1 STANDBY/ON ပံ/I Button 🖙 pg. 4
- 2 Cassette Loading Slot
- 3 DISPLAY Button 🖙 pg. 18
- Rewind [REW] Button
 r pg. 13, 14
- PLAY Button I pg. 13
- 6 Fast Forward [FF] Button ☞ pg. 13, 14
- 7 TIMER Button 🖙 pg. 23, 25
- 8 REC LINK Button 🖙 pg. 28

- In the second secon
- Display Panel 🖙 pg. 49
- 1 Infrared Beam Receiving Window
- D TV PROG +/- Buttons 🖙 pg. 17
- B RECORD Button ☞ pg. 17
- STOP/EJECT Button 🖙 pg. 13
- B PAUSE Button 🖙 pg. 14



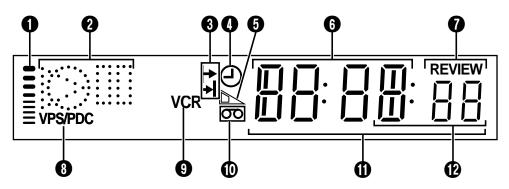
REAR VIEW



3 AV2 IN/DECODER Connector 🖙 pg. 29, 31, 32, 33, 34

I RF. OUT Connector □ pg. 3

DISPLAY PANEL



1 B.E.S.T. Picture System Display 🖙 pg. 20 **2** Symbolic Mode Indicators

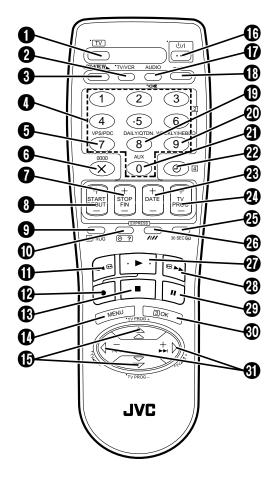
PLAY:		STILL: SLOW:	
FF/REW VARIABLE SEARCH:		RECORD:	\bigcirc
		RECORD PAUSE:	

- 3 Programme Time Indicators 🖙 pg. 24
- Image: Timer Indicator pg. 23, 25

- **5** Tape Remaining Time Indicator **c** pg. 18
- 6 Channel/Clock Display ☞ pg. 7
- 1 Instant REVIEW Indicator 🖙 pg. 15
- B VPS/PDC Indicator ☞ pg. 23, 25
- VCR Indicator pg. 18
- **(**) "Cassette Loaded" Mark
- **1** Counter/Remain Display
- Mode Display (L-1 or L-2)

INDEX (cont.)

REMOTE CONTROL



Buttons with a small dot on the left side of the name can also be used to operate your JVC TV while holding down the **TV** button. \square "Operating JVC TVs" below.

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

● TV Button ☞ "Operating JVC TVs" below

- TV/VCR Button g pg. 18 and "Operating JVC TVs" below
- 3 REVIEW Button 🖙 pg. 15
- INUMBER Keys 🖙 pg. 17, 22
- **5** VPS/PDC Button **[]** pg. 23, 25
- S X Button □ pg. 26
 0000 Button □ pg. 18
- STOP +/- Button I pg. 24
- 8 START +/− Button I pg. 24
- 9 PROG Button □ pg. 22
- ● ? Button ☞ pg. 26
- Record Button 🖙 pg. 17
- B Stop Button ☞ pg. 13, 17
- MENU Button I pg. 8
 △ Button I pg. 4
- TV PROG +/-
- 🕼 STANDBY/ON ပံ/I Button 🖙 pg. 4
- 18 DISPLAY Button 🖙 pg. 18
- DAILY Button □ pg. 23, 25
- AUX Button 🖙 pg. 30
- 2 Button □ pg. 23, 25
- OATE +/- Button
 □ pg. 24
 Tr(DDOO / Do the pg. 24
- 2 TV PROG +/− Button 🖙 pg. 17
- 30 SEC Button □ pg. 15
- Play Button 🖅 pg. 13
- Fast Forward [FF] Button 🖙 pg. 13, 14
- Pause Button 🖙 pg. 14
- OK Button 🖙 pg. 5
- Image: Second state
 Image: Second state

How To Use

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

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

Operating JVC TVs

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

NOTES:

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

SPECIFICATIONS

GENERAL

Power requirement	: AC 220 – 240 V \sim , 50/60 Hz
Power consumption	
Power on	: 18 W
Power off	: 5 W
Power save	: 2.8 W
Temperature	
Operating	: 5°C to 40°C
Storage	: -20°C to 60°C
Operating position	: Horizontal only
Dimensions (WxHxD)	: 400 x 94 x 275 mm
Weight	: 3.5 kg
Format	: VHS PAL standard
Maximum recording time	e: 240 min. with E-240 video
5	cassette
VIDEO/AUDIO	
Signal system	: PAL-type colour signal and

CCIR monochrome signal, 625 lines 50 fields Recording system Signal-to-noise ratio Horizontal resolution Frequency range Input/Output CCIR monochrome signal, 625 lines Rotary two-head herical scan system : 45 dB Horizontal resolution : 250 lines Frequency range : 70 Hz to 10,000 Hz : 21-pin scart connectors : IN/OUT x 1, IN/DECODER x 1

TUNER/TIMER

TV channel storage	
capacity	: 99 positions
	(+AUX position)
Tuning system	: Frequency synthesized tuner
Channel coverage	: VHF 47 - 89/104 - 300/
-	302 – 470MHz
	UHF 470 – 862MHz
Aerial output	: UHF channels 22 – 69
·	(Adjustable)
Memory backup time	: Approx. 10 min.
ACCESSORIES	
Provided accessories	: RF cable,

Infrared remote control unit, "R6" battery x 2

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



Auto Set Up - referring to the display panel

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

BEFORE YOU START PLEASE MAKE SURE THAT:

- The TV aerial cable is connected to the ANT.IN jack on the rear panel of the video recorder.
- The video recorder's mains power cord is connected to a mains outlet.
- The video recorder is turned off.
- Load batteries into the remote control.
- 1 Press U/I (recorder/remote).

56732

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

(Ex.) DEUTSCHLAND is selected.



International Telephone Country Code					
BELGIUM	: 32 NORGE	: 47			
ČESKÁ REPUBLIKA	: 42 ÖSTERREICH	: 43			
DANMARK	: 45 POLSKA	: 48			
DEUTSCHLAND	: 49 PORTUGAL	: 351			
ESPAÑA	: 34 SUISSE	: 41			
GREECE	: 30 SUOMI	: 358			
ITALIA	: 39 SVERIGE	: 46			
MAGYARORSZÁG	: 36 OTHER WESTERN EUROPE	:			
NEDERLAND	: 31 OTHER EASTERN EUROPE	: EE			

• If you have selected a country code other than 32 (BELGIUM) or 41 (SUISSE), go to step 3.

If you have selected 36 (MAGYARORSZAG), 42 (CESKA REPUBLIKA), 48 (POLSKA) or EE (OTHER EASTERN EUROPE), press OK. Clock Set screen will appear. Set the clock manually (☞ pg.42 – 43), then go to step 3.

 If you have selected 32 (BELGIUM) or 41 (SUISSE), press OK (remote) and select the language code by pressing △▽ (remote), then go to step 3.

(Ex.) FRANCAIS is selected for BELGIUM

International Telephone Country Code

ובח`		
<u>, </u>		
	Language Code	

Language Code					
ENGLISH DEUTSCH FRANCAIS ITALIANO CASTELLANO	: 01 : 02 : 03 : 04 : 05	NORSK SUOMI DANSK POLSKI ČEŠTINA	: 08 : 09 : 10 : 11 : 12		
NEDERLANDS SVENSKA	: 06 : 07	MAGYAR	: 13		

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

Auto	→	10 U T 36

 If "- -:- -" appears on the display panel, see page 7 of the instructions.

- If you have connected the video recorder to your TV via RF connection, press **OK** to finish the Auto Set Up. To view picture signals from the video recorder, set your TV to the Video Channel.
- If you have connected the video recorder to your TV via AV connection, press TV PROG until the display panel shows "1OUT– –" to set the Video Channel to off, then press OK to finish the Auto Set Up. To view picture signals from the video recorder, set your TV to its AV mode.
- * Once you have performed Auto Set Up, even if the recorder's memory backup has expired, the recorder will not perform Auto Set Up again. Perform tuner setting (\$\sigma\$ pg. 36), clock setting (\$\sigma\$ pg. 42) and/or Video Channel setting (\$\sigma\$ pg. 44) as required.

FOR MORE INFORMATION SEE INSTRUCTIONS/P4



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