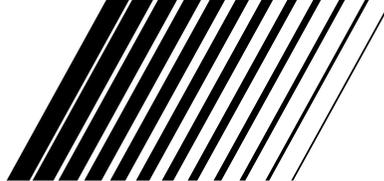


JVC



VIDEO CASSETTE RECORDER

HR-J261EU



INSTRUCTIONS

ENGLISH

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

IMPORTANT

- Please read the various precautions on page 2 and 3 before installing or operating the recorder.
- It should be noted that it may be unlawful to re-record pre-recorded tapes, records, or discs without the consent of the owner of copyright in the sound or video recording, broadcast or cable programme and in any literary, dramatic, musical, or artistic work embodied therein.



- Cassettes marked "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.

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

Video tapes recorded with 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.

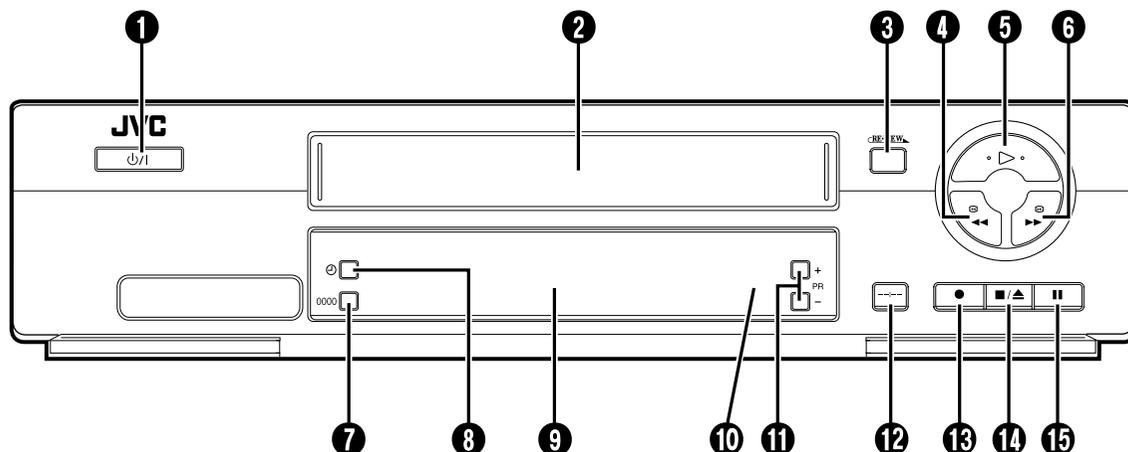
1. DO NOT place the recorder . . .

- ...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. DO NOT place anything which might spill on top of the recorder or remote control.****5. AVOID violent shocks to the recorder during transport.****MOISTURE CONDENSATION**

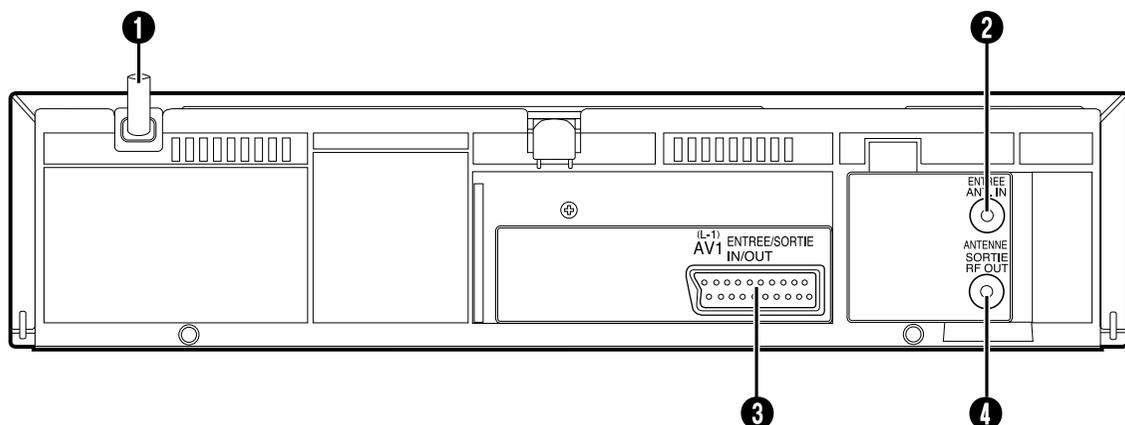
Moisture in the air will condense on the recorder when you move it from a cold place to a warm place, or under extremely humid conditions-just as water droplets form in the surface of a glass filled with cold liquid. Moisture condensation on the head drum will cause damage to the tape. In conditions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

FRONT VIEW



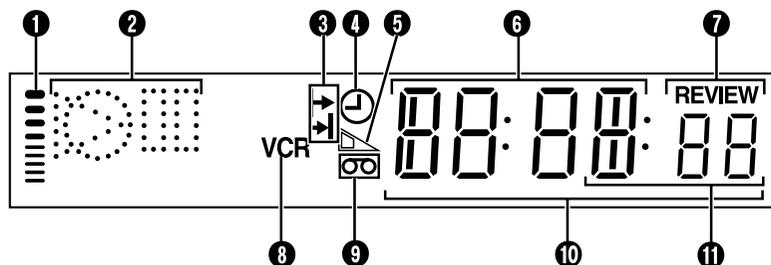
- ❶ STANDBY/ON ⏻/I Button ☞ pg. 8
- ❷ Cassette Loading Slot
- ❸ REVIEW Button ☞ pg. 16
- ❹ Rewind ◀◀ Button ☞ pg. 14, 15
- ❺ Play ▶ Button ☞ pg. 14
- ❻ Fast Forward ▶▶ Button ☞ pg. 14, 15
- ❼ Counter Reset 0000 Button ☞ pg. 20
- ❽ Timer ⌚ Button ☞ pg. 23
- ❾ Front Display Panel ☞ pg. 5
- ❿ Infrared Beam Receiving Window
- ⓫ PR +/- Buttons ☞ pg. 18
- ⓬ Display -- : -- Button ☞ pg. 20
- ⓭ Record ● Button ☞ pg. 18
- ⓮ Stop/Eject ■/▲ Button ☞ pg. 14
- ⓯ Pause || Button ☞ pg. 15

REAR VIEW



- ❶ Mains Power Cord ☞ pg. 7
- ❷ ANT. IN Connector ☞ pg. 7
- ❸ AV1 (L-1) IN/OUT Connector ☞ pg. 7, 26, 27
- ❹ RF OUT Connector ☞ pg. 7

FRONT DISPLAY PANEL



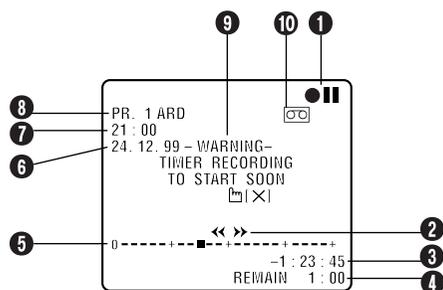
- ❶ B.E.S.T. Picture System Display [↗](#) pg. 21
- ❷ Symbolic Mode Indicators

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

- ❸ Programme Time Indicators [↗](#) pg. 22
- ❹ "Timer" Indicator [↗](#) pg. 23
- ❺ Tape Remaining Time Indicator [↗](#) pg. 20
- ❻ Channel/Clock Display
- ❼ Instant REVIEW Indicator [↗](#) pg. 16
- ❽ VCR Indicator [↗](#) pg. 19
- ❾ "Cassette Loaded" Mark
- ❿ Counter/Remain Display
- ⓫ Mode Display (L-1)

ON-SCREEN DISPLAY

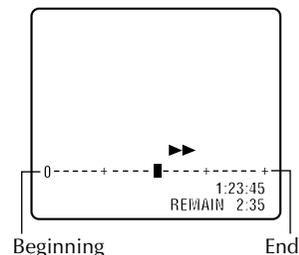
When "O.S.D." is set to "ON" ([↗](#) pg. 29), various operational indicators appear on the TV screen.



- ❶ Operation mode indicators
- ❷ Tape direction
- ❸ Counter display
- ❹ Tape remaining time indicator [↗](#) pg. 20

- ❺ Tape position indicator

The tape position indicator appears on the TV screen when you press or from the Stop mode or perform an Index Search ([↗](#) pg. 17). The position of "I" in relation to "0" (beginning) or "+" (end) shows you where you are on the tape.

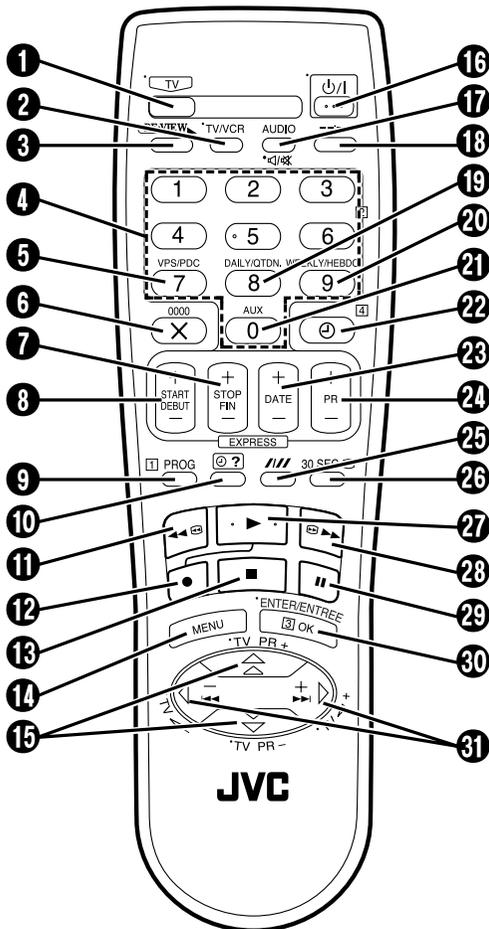


NOTE:

Depending on the type of tape used, the tape position indicator may not appear correctly.

- ❻ Current day/month/year
- ❼ Clock display
- ❽ Channel position number and station name/ Auxiliary input indicator (L-1)
- ❾ Timer warning display
A warning appears on the TV screen to tell you that the timer-recording is to start in 5 minutes if you're not in the Timer mode at that time. The warning blinks for the entire 5 minutes leading up to the start of timer recording. To clear the display, press X.
- ⓫ Cassette loaded mark

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. (☞ “Operating JVC TVs” in the right column)

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

- ① TV Button ☞ “Operating JVC TVs” below
- ② TV/VCR Button ☞ pg. 19 and “Operating JVC TVs” below
- ③ REVIEW Button ☞ pg. 16
- ④ NUMBER KEYS ☞ pg. 18
- ⑤ VPS/PDC Button (Not functions with this recorder.)
- ⑥ Cancel X Button ☞ pg. 24
- ⑦ STOP +/- Button ☞ pg. 22
- ⑧ START +/- Button ☞ pg. 22
- ⑨ PROG Button ☞ pg. 22
- ⑩ Programme Check ? Button ☞ pg. 24
- ⑪ Rewind ◀◀ Button ☞ pg. 14, 15
- ⑫ Record ● Button ☞ pg. 18
- ⑬ Stop ■ Button ☞ pg. 14, 18
- ⑭ MENU Button ☞ pg. 12
- ⑮ △▽ Button ☞ pg. 8
- ⑯ TV PR +/- Button ☞ “Operating JVC TVs” below
- ⑰ STANDBY/ON ◻/I Button ☞ pg. 8
- ⑱ ◻/⊗ (TV Muting) Button ☞ “Operating JVC TVs” below
- ⑲ Display -- : -- Button ☞ pg. 20
- ⑳ DAILY Button ☞ pg. 23
- ㉑ WEEKLY Button ☞ pg. 23
- ㉒ AUX Button ☞ pg. 26
- ㉓ ◻ (Timer) Button ☞ pg. 22
- ㉔ DATE +/- Button ☞ pg. 22
- ㉕ PR +/- Button ☞ pg. 18
- ㉖ Auto Tracking /// Button ☞ pg. 16
- ㉗ 30 SEC Button ☞ pg. 17
- ㉘ Play ▶ Button ☞ pg. 14
- ㉙ Fast Forward ▶▶ Button ☞ pg. 14, 15
- ㉚ Pause || Button ☞ pg. 15
- ㉛ OK Button ☞ pg. 9
- ㉜ ◀▶ Button ☞ pg. 15
- TV ◻ +/- Button ☞ “Operating JVC TVs” below

How To Use

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

- Point the remote control toward the receiving 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 PR +/-, TV ◻ +/-, ◻/⊗ (TV Muting).

NOTES:

- When inserting the batteries, be sure to insert in the correct directions as indicated under the battery cover.
- Depending on the type of JVC TV, some or all functions may not 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.

Basic Connections

It's essential that your video recorder be properly connected.

THESE STEPS MUST BE COMPLETED BEFORE ANY VIDEO OPERATION CAN BE PERFORMED.

1 Check the contents.

Make sure the package contains all of the accessories listed in "SPECIFICATIONS" on the back cover.

2 Situate the recorder.

Place the recorder on a stable, horizontal surface.

3 Connect the recorder to TV.

The connection method you use depends on the type of TV you have.

RF Connection

- To connect to a TV with NO AV input connectors . . .
- 1 Disconnect the TV aerial cable from the TV.
- 2 Connect the TV aerial cable to the ANT. IN connector on the rear panel of the recorder.
- 3 Connect the provided RF cable between the RF OUT connector on the rear panel of the recorder and the TV's aerial connector.

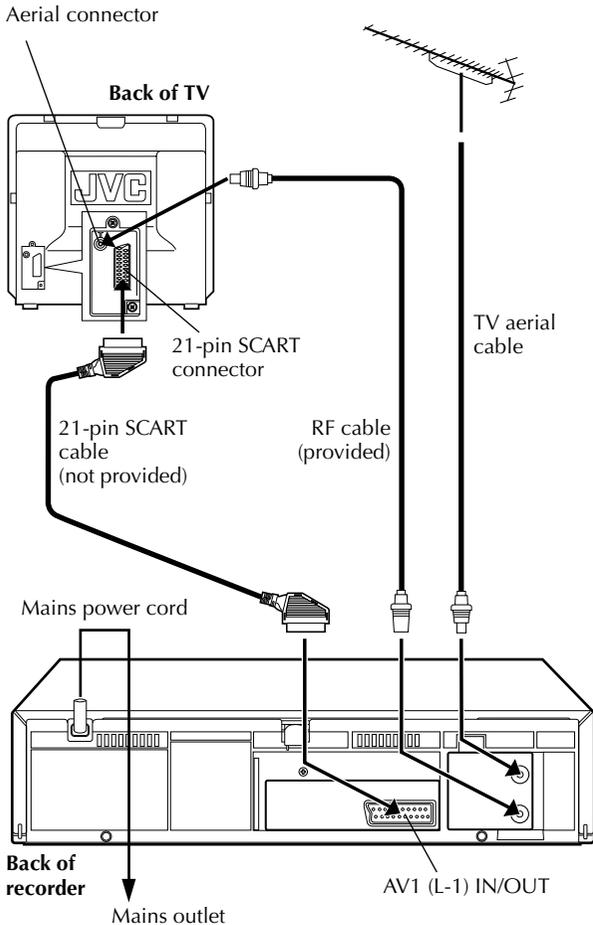
AV Connection

- To connect to a TV with AV input connectors . . .
- 1 Connect the aerial, recorder and TV as per "RF Connection".
- 2 Connect an optional 21-pin SCART cable between the AV1 (L-1) IN/OUT connector on the rear panel of the recorder and the TV's 21-pin SCART connector.

4 Connect the recorder to mains.

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

After the connection is completed, perform "Auto Set Up" on page 8.

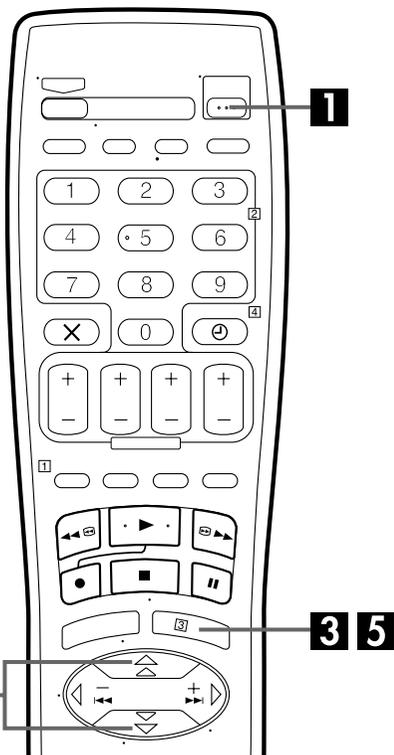


Make AV connection if your TV has a 21-pin AV input connector (SCART) in order to reduce the possibility of interference. And if you are using a stereo TV, you will need an optional 21-pin SCART cable in order to enjoy stereo playback of video tapes.

Auto Set Up

After the $\psi/1$ button on the recorder or remote control is pressed for the first time to power on the recorder, by simply selecting your country*, the Auto Set Up function sets the tuner channels automatically.

* If you live in Belgium (BELGIUM) or Switzerland (SUISSE), you also need to select your language.

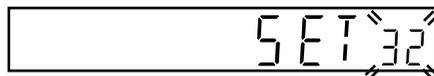


Before starting, make sure of the following:

- The TV aerial cable should be connected to the recorder.
- The recorder's mains power cord should be connected to a mains outlet.
- If you want to use the on-screen display, the TV should be set to its AV mode (with AV connection \square pg. 7) or UHF channel 36 (with RF connection \square pg. 7).

1 Turn on the recorder.

Press $\psi/1$ on the recorder or remote control. The Country Set display appears on the front display panel and/or on the TV screen.



NOTE:

If you have connected your TV to the recorder with RF connection and the on-screen display appearing on UHF channel 36 looks distorted, perform "Video Channel Set" on page 38.

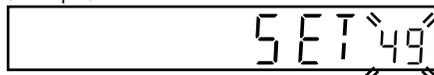


2 Select your country.

On the front display panel

Press \triangle/∇ to select your international telephone country code of your country referring to the chart in the left column.

(Example) DEUTSCHLAND is selected.



On the on-screen display

Press \triangle/∇ to move the highlight bar (pointer) to your country's name.



NOTES:

- If you have selected BELGIUM (32) or SUISSE (41), go to step 3.
- If you have selected any other country name (code), go to step 4.

International Telephone Country Code

BELGIUM	: 32	NORGE	: 47
ĀESKÁ 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

3 Select the language.

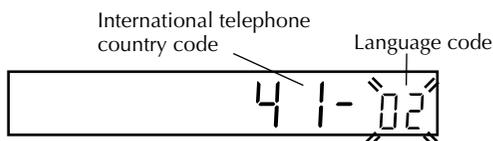
Press **OK**. The Language Set display appears on the front display panel and/or on the TV screen.

On the front display panel

Press $\Delta \nabla$ to select your language code.

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

(Example) DEUTSCH is selected for SUISSE.



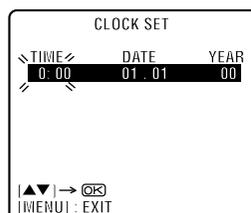
On the on-screen display

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



4 Set the date and time.

Press **OK**. The Clock Set screen appears. 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 $\Delta \nabla$ to change the time by 30 minutes.
- When you set the date, press and hold $\Delta \nabla$ to change the date by 15 days.

5 Perform Auto Set Up.

Press **MENU**. The AUTO SET/T-V LINK display appears on the front display panel and/or on the TV screen.

On the front display panel

Press $\Delta \nabla$ to select "Auto" and press **OK** or \triangleright .



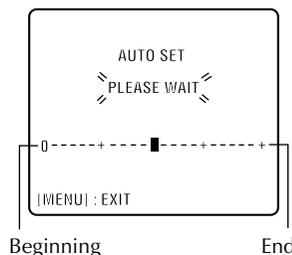
On the on-screen display

Press $\Delta \nabla$ to move the highlight bar (pointer) to "AUTO SET" and press **OK** or \triangleright .



"Auto" blinks on the front display panel; do NOT press any button on the recorder or remote control.

- If you are using the on-screen display, the AUTO SET screen will appear. As Auto Set Up progresses, the "█" mark on the TV screen moves from left to right. When the Auto Set Up is completed, "SCAN COMPLETED" appears for about 5 seconds, then the normal screen appears.



- If you have connected the recorder to your TV via the AV connection (☞ pg. 7), the recorder will automatically perform Preset Download (☞ pg. 10).

ATTENTION

Once you have performed Auto Set Up, even if the recorder's memory backup has expired, all the stored stations remain in the recorder's memory and the recorder will not perform Auto Set Up again. You only need to set the clock. (☞ pg. 31)

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

- Video channel setting (for RF connection users) ☞ pg. 38
 - Tuner setting ☞ pg. 32
 - Clock setting ☞ pg. 31
- If a new station starts broadcasting in your area, perform tuner setting (☞ pg. 32) and, if necessary, video channel setting (☞ pg. 38).

NOTES:

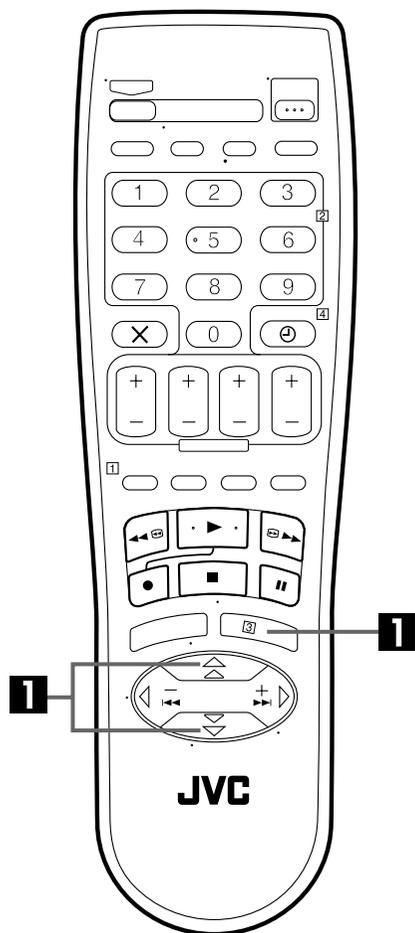
- If there is a power cut, or if you press ⏻ or **MENU** while Auto Set Up is in progress, Auto Set Up will be interrupted; be sure to turn off the recorder power once and try again from step 1.
- If no sound accompanies the picture or the audio sounds unnatural on some channels that have been stored by Auto Set Up, the TV system setting for those channels may be incorrect. Select the appropriate TV system for those channels (☞ pg. 35, "INFORMATION").

Preset Download

ATTENTION

You can use this function only with a TV offering T-V Link, etc.* Be sure to use a fully-wired 21-pin SCART cable.

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



If you have connected the recorder to your TV via the AV connection (☞ pg. 7), the recorder will automatically perform Preset Download instead of the Auto Set Up in step 5 on page 9.

Perform steps 1 to 4 of “Auto Set Up” on page 8 before continuing.

1 Perform Preset Download.

Press **MENU**. The AUTO SET/T-V LINK display appears on the front display panel and/or on the TV screen.

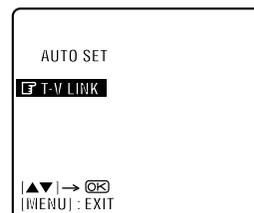
On the front display panel

Press $\Delta \nabla$ to select “CH --” and press **OK** or \triangleright .



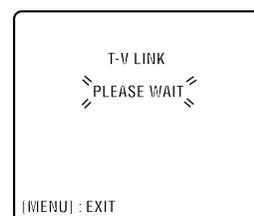
On the on-screen display

Press $\Delta \nabla$ to move the highlight bar (pointer) to “T-V LINK” and press **OK** or \triangleright .



Preset positions on the front display panel increase from “CH1”; do NOT press any button on the recorder or remote control.

- If you are using the on-screen display, the T-V LINK screen will appear. When Preset Download is completed, “COMPLETED” appears for about 5 seconds, then the normal screen appears.
- If you press any button on the recorder or remote control while downloading is in progress, it will be interrupted.



2 Set the video channel.

Set the video channel to off manually. (☞ pg. 38)

NOTES:

- For details, refer to the instruction manual of your TV.
- If there is a power cut, or if you press $\odot/1$ or **MENU** while downloading or set up is in progress, it will be interrupted; be sure to turn off the recorder power once and try again from the beginning.
- On this recorder, the characters available for station names (ID) are A-Z, 0-9, -, *, + and _ (space). Some names of downloaded stations may differ from those of your TV (☞ pg. 36).

IMPORTANT

Your video recorder memorizes all detected stations even if reception of some of them is poor. You can delete those stations with an unacceptable picture (see pg. 35, "Delete A Channel").

INFORMATION**Language for the on-screen display**

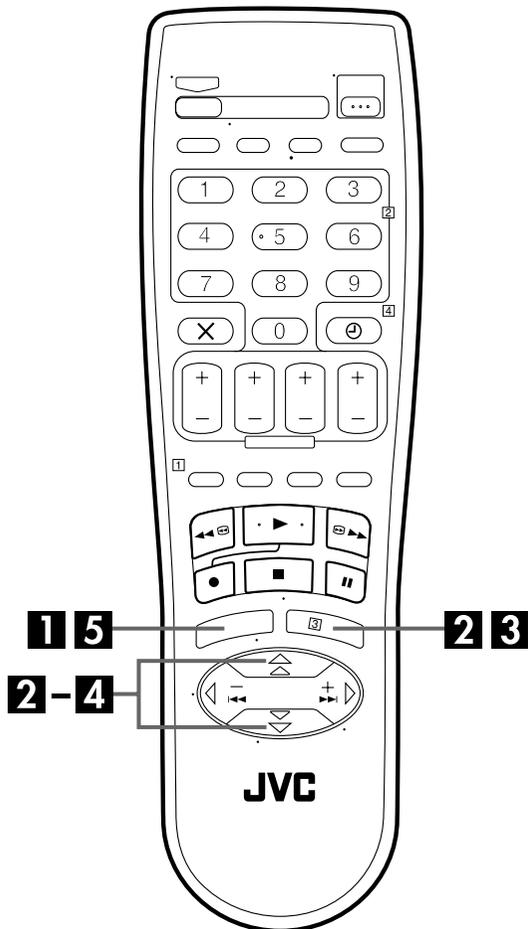
Auto Set Up also selects the language automatically for the on-screen display depending on the Country setting you have made in step 2 on page 8 (unless you have selected BELGIUM or SUISSE), as shown below.

SUOMI	→ SUOMI	DANMARK	→ DANSK	NEDERLAND	→ NEDERLANDS
PORTUGAL	→ ENGLISH	ÖSTERREICH	→ DEUTSCH	GREECE	→ ENGLISH
DEUTSCHLAND	→ DEUTSCH	ČESKÁ REPUBLIKA	→ ČESTINA	OTHER WESTERN EUROPE	→ ENGLISH
POLSKA	→ POLSKI	ITALIA	→ ITALIANO	OTHER EASTERN EUROPE	→ ENGLISH
NORGE	→ NORSK	MAGYARORSZÁG	→ MAGYAR		
SVERIGE	→ SVENSKA	ESPAÑA	→ CASTELLANO		

If you want to change the language setting manually, see "Language" on page 12.

Language

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



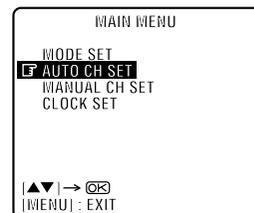
This recorder offers you the choice to view on-screen messages in 13 different languages. Though Auto Set Up selects the language automatically (pg. 11), you can change the language setting manually as required.

1 Access the Main Menu screen.

Press **MENU**.

2 Access the Country Set screen.

Press Δ / ∇ to move the highlight bar (pointer) to "AUTO CH SET", then press **OK** or \triangleright .



3 Select your country.

Press Δ / ∇ to move the highlight bar (pointer) to your country's name, then press **OK** or \triangleright .

4 Select the language.

Press Δ / ∇ to move the highlight bar (pointer) to the language of your choice.

- You do not have to press **OK**; pressing **OK** enters AUTO SET/T-V LINK screen.



5 Return to the normal screen.

Press **MENU**.

T-V Link Functions

When you connect the recorder to your TV via a fully-wired 21-pin SCART cable (☞ pg. 7), the following functions are available. You can use these functions only with a TV offering T-V Link, etc.*

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

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

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 of your TV.

TV Auto Power On

The TV will turn on and be set to its AV mode automatically whenever you play a tape. For details, refer to the instruction manual of your TV.

VCR Auto Standby

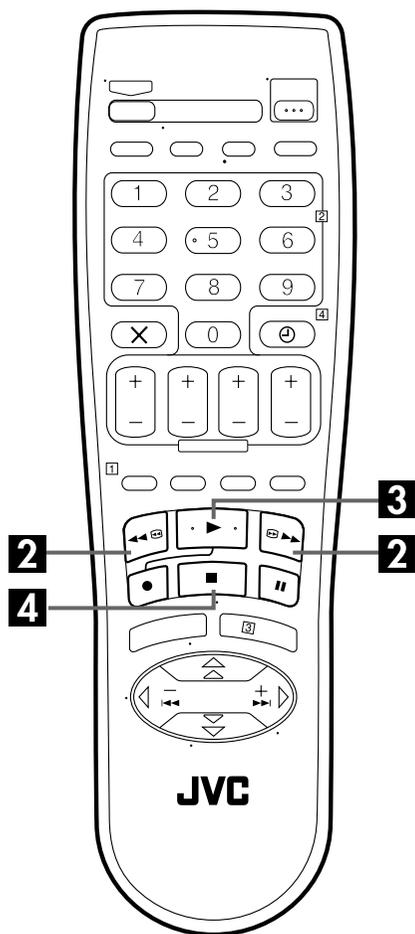
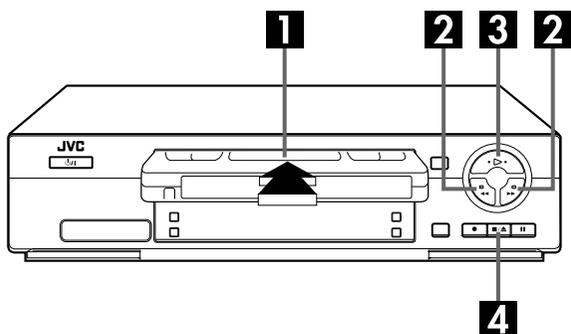
You can use your TV's remote control to turn off the recorder. For details, refer to the instruction manual of your TV.

Direct Rec

You can easily start recording the programme that you are watching on your TV. When you use this function, set "DIRECT REC" to "ON" (☞ pg. 29).

Basic Playback

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



1 Load a cassette.

Make sure the window side is up, the rear label side is facing you and the arrow on the front of the cassette is pointed toward the recorder.

- Don't apply too much pressure when inserting.
- The recorder's power comes on automatically and the counter is reset to 0:00:00.
- If the record safety tab has been removed, playback begins automatically.

2 Find the programme start point.

If the tape is advanced past the start point, press ◀◀. To go forward, press ▶▶.

3 Start playback.

Press ▶. "BEST" appears blinking in the recorder's front display panel during automatic tracking. (☞ pg. 21)

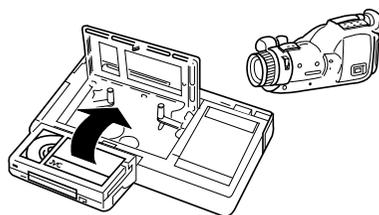
4 Stop playback.

Press ■ on the remote control or ■/▲ on the recorder's front panel. Then press ■/▲ to remove the cassette.

Clean the video heads using a dry cleaning cassette — TCL-2UX — when:

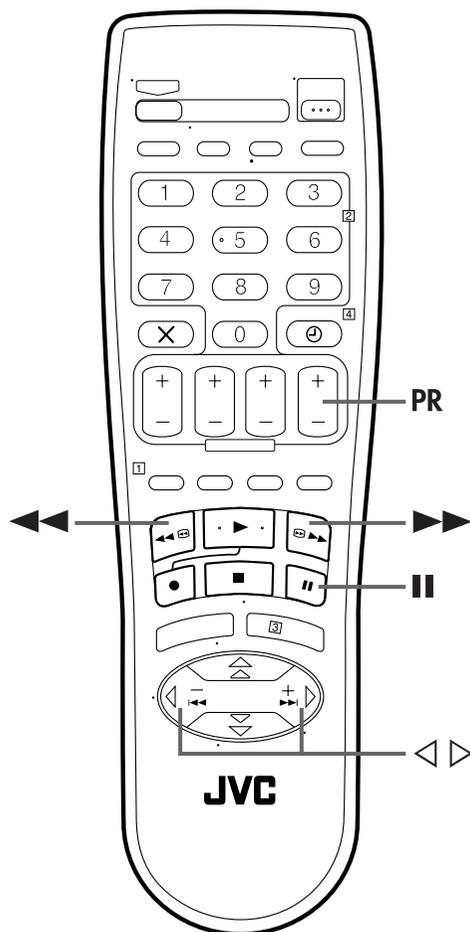
- Rough, poor picture appears while a tape is played back.
- The picture is unclear or no picture appears.
- "USE CLEANING CASSETTE" appears on the screen (only with "O.S.D." set to "ON" (☞ pg. 29)).

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.

Playback Features



Still Picture/Frame-By-Frame Playback

1 Pause during playback.

Press **II**.

- If there is vertical jitter, use the **PR** buttons to correct the picture.

2 Activate Frame-by-frame playback.

Press **II**.

OR

Press **<** or **>**.

Slow Motion

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

OR

During still picture, press and hold **<** or **>**. Release to return to still picture.

High-Speed Search

During playback or still, press **▶▶** for forward high-speed search, or **◀◀** for reverse high-speed search.

NOTE:

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

Variable Speed Search

During still picture, press **<** or **>**.

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

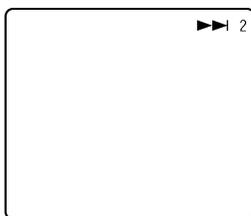
To resume normal playback, press **▶**.

ATTENTION

In the high-speed search, still, slow motion or frame by frame playback mode, the picture will be distorted, and there will be a loss of colour.

Index Search

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



NOTE:

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

Activate Index Search.

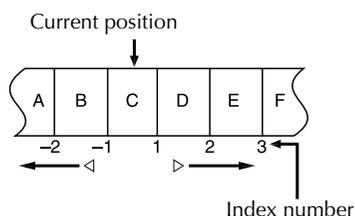
Press ◀ or ▶ (◀◀ or ▶▶). "◀◀ 1" or "▶▶ 1" is displayed on the TV screen and search begins in the corresponding direction.

- To access index codes 2 through 9, press ◀ or ▶ repeatedly until the correct index number is displayed.

Example:

To locate the beginning of B from the current position, press ◀ twice.

To locate the beginning of D from the current position, press ▶ once.



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

Skip Search

During playback, press **30 SEC** 1 to 4 times to skip over unwanted sections. To resume normal playback, press ▶.

- Each press initiates a 30-second period of fast-motion playback. Normal playback resumes automatically.

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.

- For Automatic Start Of Playback
Press ◀◀, then press ▶ within 2 seconds.
- For Automatic Power Off
Press ◀◀, then press ⏻ within 2 seconds.
- For Automatic Timer Standby
Press ◀◀, then press ⊖ (TIMER) within 2 seconds.

Repeat Playback

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

1 Start playback.

Press ▶.

2 Activate Repeat Playback.

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

- The Play indicator (▶) on the front display panel blinks slowly.
- After playing back a tape 100 times, the recorder stops automatically.

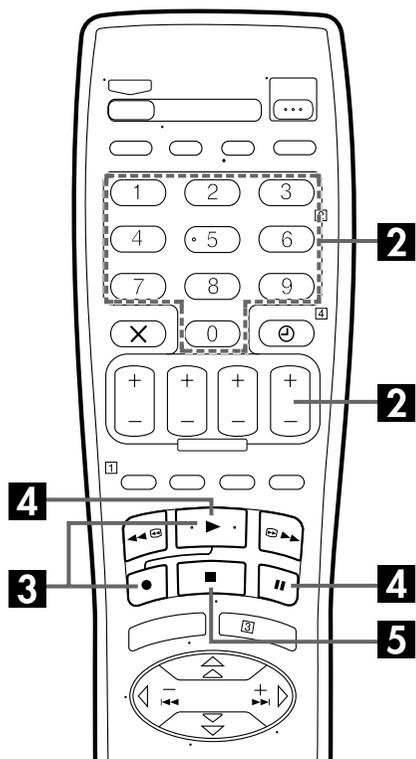
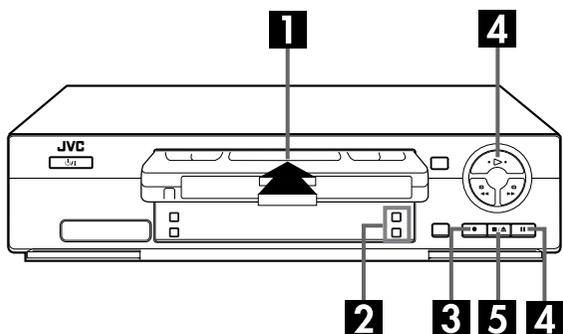
3 Stop Repeat Playback.

Press ■ at any time.

- Pressing ▶, ◀◀, ▶▶ or || also stops Repeat Playback.

Basic Recording

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



Recording Resume Function

If there is a power outage during recording, Instant Timer Recording (pg. 19) or timer recording (pg. 22), the recording will resume automatically when power is restored to the recorder unless the recorder's memory backup has expired.

1 Load a cassette.

Insert a cassette with the record safety tab intact.

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

2 Choose a programme.

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

3 Start recording.

Press and hold **●** and press **▶** on the remote control, or press **●** on the recorder.

B.E.S.T. takes place at the beginning of the first recording after inserting the cassette. (pg. 21)

If "DIRECT REC" is set to "ON", the programme that appears on the TV screen will be recorded (pg. 29).

4 Pause/Resume recording.

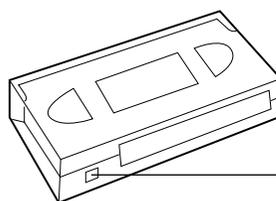
Press **II**. Press **▶** to resume recording.

5 Stop recording.

Press **■** on the remote control or **■/▲** on the recorder. Then press **■/▲** to remove the cassette.

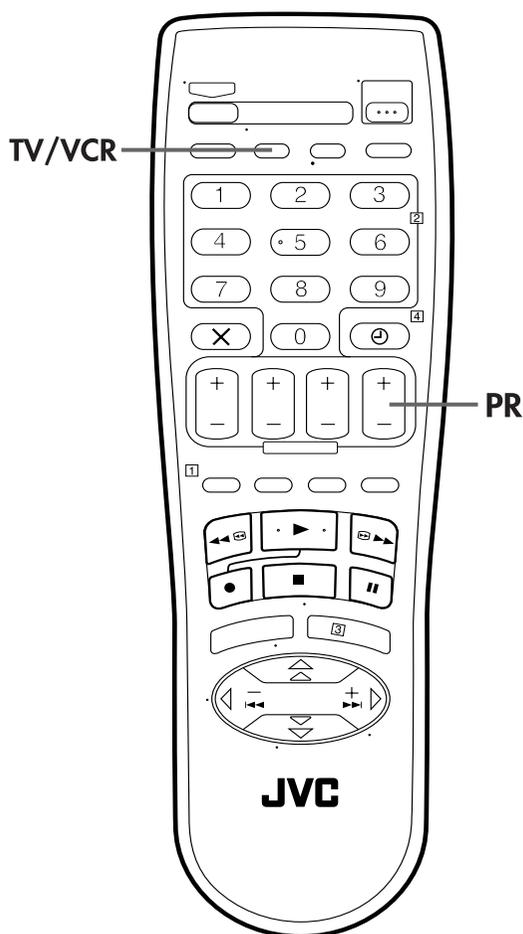
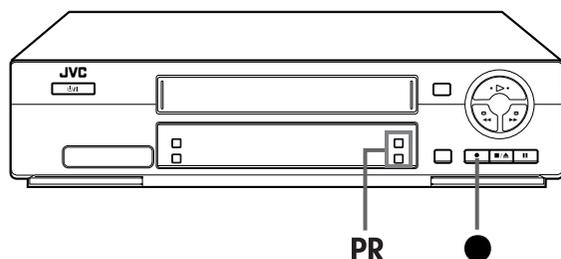
Accidental erasure prevention

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



Record safety tab

Recording Features



Instant Timer Recording (ITR)

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

1 Start recording.

Press ● on the recorder.

2 Engage the ITR mode.

Press ● again. "●" blinks and 0:30 appears on the front display panel.

3 Set the recording duration.

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

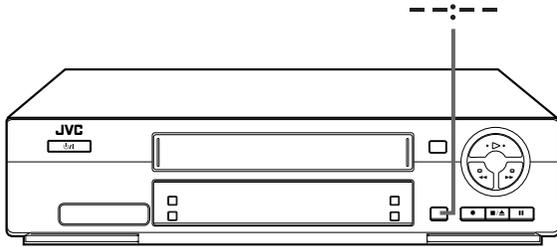
NOTE:

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

Record One Programme While Watching Another

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



Elapsed Recording Time Indication

1 Set the counter display.

Press **--:--** until a counter reading appears on the front display panel.

2 Reset the 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. You can check the exact time of a recording or playback.

Tape Remaining Time

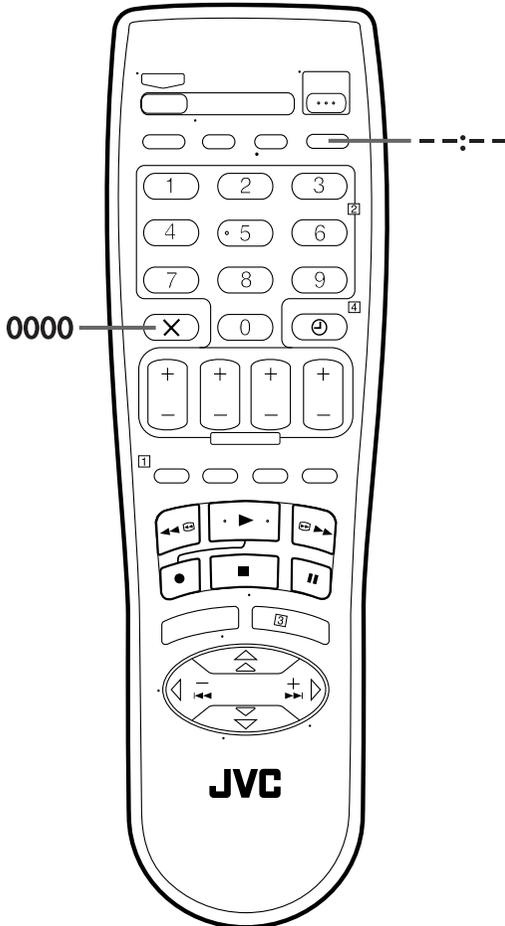
Press **--:--** until the time remaining on the tape appears.

- The front 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, the tape remaining time reading may not appear right away, or is not correct. "--:--" may sometimes appear, or the display may blink on occasion.



B.E.S.T. Picture System

The B.E.S.T. (Biconditional Equalised Signal Tracking) system checks the condition of the tape in use during playback and recording, and compensates to provide the highest-possible playback and recording pictures. You can set "B.E.S.T." to "ON" or "OFF" to your preference (ⓘ pg. 29).

Playback

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



- The recorder adjusts the playback picture quality based on the quality of the tape in use.
- B.E.S.T. is active during Auto Tracking. "BEST" appears blinking on the recorder's front 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 (ⓘ pg. 29).
- "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.

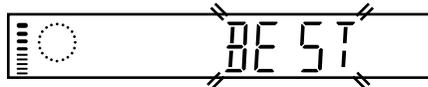
Recording

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

DURING B.E.S.T.



B.E.S.T. COMPLETE



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

NOTES:

- The B.E.S.T. system works only after a tape has been inserted and the Record mode is first initiated. It does not work during recording.
- In the case of timer recordings, 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 re-performed.
- Pressing the recorder's ● button while "BEST" is displayed does not start Instant Timer Recording (ⓘ pg. 19).

ATTENTION

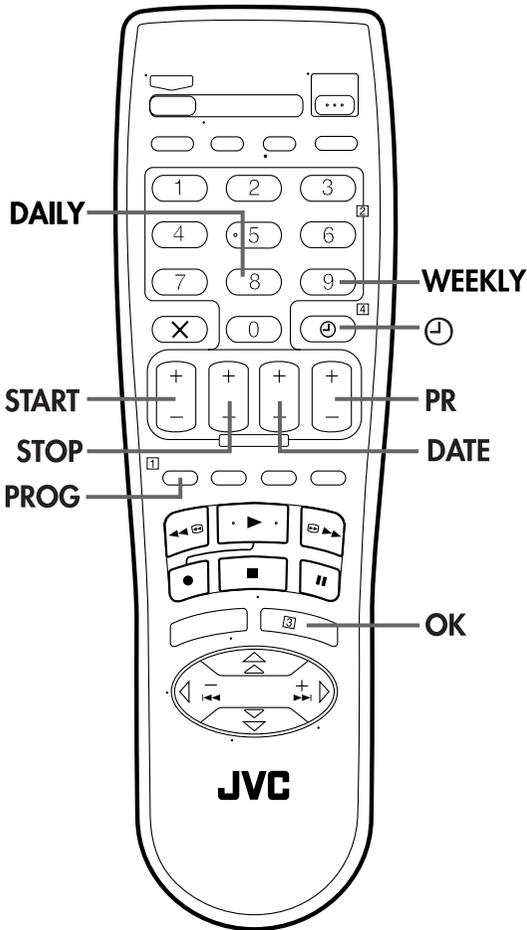
Since the B.E.S.T. system works before recording actually starts, there is a delay of approximately 7 seconds after ● and ▶ on the remote control are pressed, or ● on the recorder is pressed. To make sure you record the desired scene or programme in its entirety, first perform the following steps:

- 1 Press and hold || and press ● to engage the Record Pause mode.
 - The recorder then automatically checks the condition of the tape and, after approximately 7 seconds, re-enters Record Pause.
 - 2 Press ▶ 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" (ⓘ pg. 29).

Express Timer Programming

Before performing Express Timer Programming:

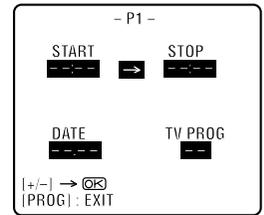
- Make sure that the recorder's built-in clock is set properly.
- Insert a cassette with the safety tab in place. The recorder will come on automatically.
- Turn on the TV and select the video channel (or AV mode).



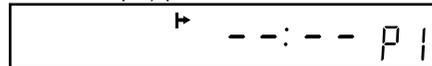
If you don't know the SHOWVIEW number for the programme you wish to record, use the following procedure to set your recorder to timer-record the programme.

1 Access the Programme screen.

Press **PROG.** (If you're just starting out, "P1" appears.)



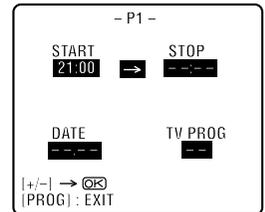
The front display panel looks like this:



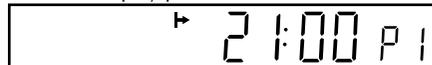
2 Enter the programme start time.

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

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



The front display panel looks like this:



3 Enter the programme stop time.

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

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

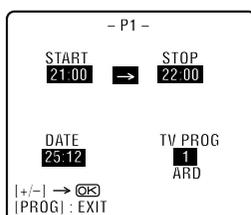
4 Enter the programme date.

Press **DATE +/-**.

- The current date appears on the TV screen. The date you enter appears in its place.

5 Enter the channel position.

Press **PR +/-**.



6 Return to the normal screen.

After confirming all information is correct, press **PROG** or **OK**. "PROGRAM COMPLETED" appears on the TV screen for about 5 seconds, then the normal screen appears. If "PROGRAM OVERLAPPED" appears on the TV screen and "Err" on the front display panel, see page 25.

- Repeat steps 1 – 6 for each additional programme.

7 Engage the recorder's timer mode.

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

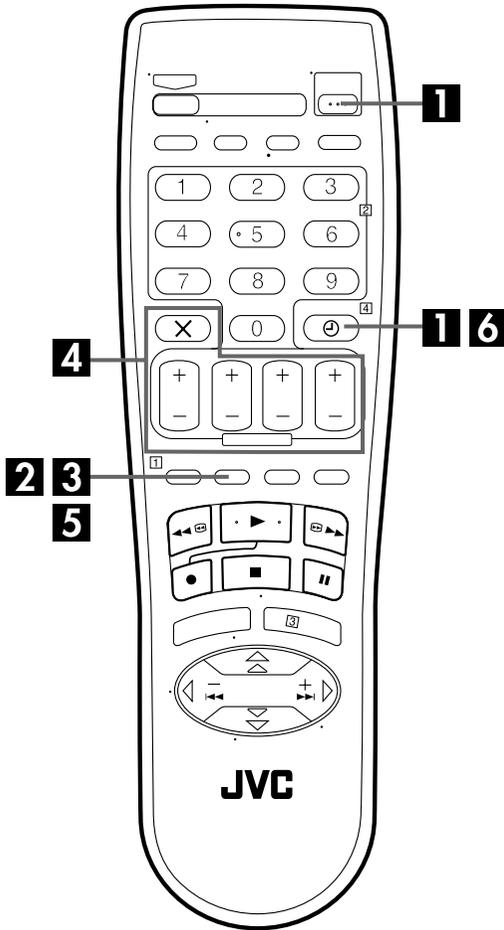
- To disengage the timer mode, press **⊖ (TIMER)** again.

To Timer-Record Weekly Or Daily Serials . . .

. . . anytime during steps 2 through 6, 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 TV 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 the TV screen and "FULL" appears on the front display panel. To record the extra programme, you must first cancel any unnecessary programmes (ⓘ pg. 24).



Check, cancel and change programmes

1 Disengage the timer mode.

Press **TIMER**, then press **OK**.

2 Access the Programme Check screen/display.

Press **OK**.

	START	STOP	CH	DATE
1	8:00	10:00	3	24.12
2	10:00	10:45	2	25.12
3	11:30	13:00	1	25.12
4				
5				
6				
7				
8				

⊙ ? | : NEXT



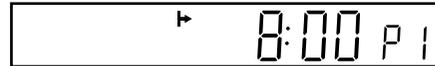
3 Access the Programme screen/display.

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

- P1 -	
START 8:00	STOP 10:00
DATE 24.12	TV PROG 3 WDR

⊙ ? | : NEXT

The front display panel shows the programme start time. Pressing **OK** changes the display to the programme stop time, then the date and the channel position.



To cancel or change a programme...

4 Cancel or change a programme.

Press **X** to cancel a programme. To change programme settings, press the appropriate button: **START**+/-, **STOP**+/-, **DATE**+/- and/or **PR**+/-.

5 Return to the normal screen/display.

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

6 Return to the timer mode.

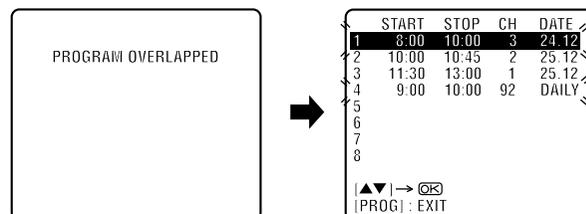
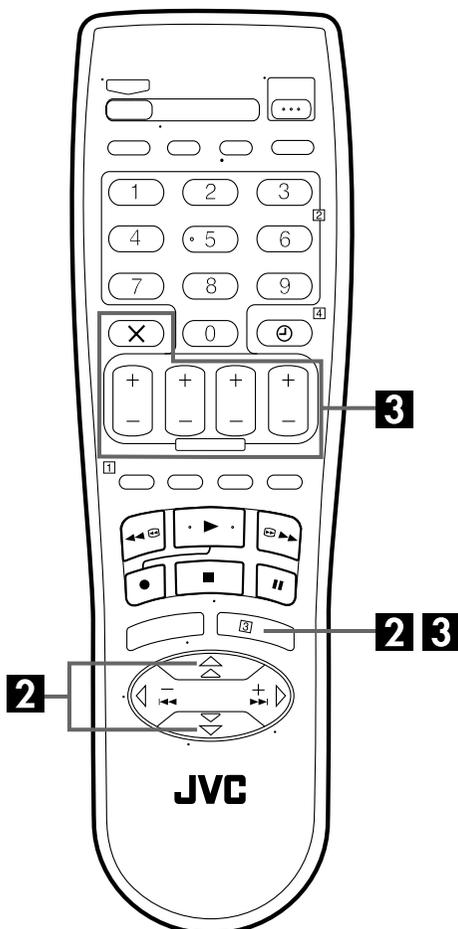
Press **TIMER**.

NOTE:

You can also check the programmes on the front display panel even if the recorder's power is off (unless the recorder is in the Power Save mode pg. 30) or the recorder is in the Timer mode; however, it is not possible to cancel or change the programmes.

When programmes overlap each other

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



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

1 Confirm the overlapping programmes.

Overlapping programmes blink on the TV screen.

2 Select the programme to modify.

Press Δ / ∇ , then press **OK** or \triangleright .

- You can only select one of the overlapping programmes.

NOTE:

If you do not mind this overlap, press **PROG** to finish the timer programme setting. The programme with the lower programme number will be recorded and the other one will not be recorded correctly. If no changes are made for approximately 1 minute, the recorder will return to the normal screen.

3 Cancel or change programme setting.

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

To change a programme, press the appropriate button: **START+/-**, **STOP+/-**, **DATE+/-** and/or **PR+/-** when the Programme screen on which you want to make changes is shown, then press **OK**. "PROGRAM COMPLETED" appears on the TV screen for about 5 seconds, then the normal screen appears.

NOTE:

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

Edit From A Camcorder

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

1 Make connections.

Connect the camcorder's AUDIO/VIDEO OUT connectors to the recorder's AV1 (L-1) IN/OUT connector via a cable adapter.

2 Set the recorder's input mode.

Press **AUX** (NUMBER key "0") and/or **PR** to select "L-1".

3 Set the edit mode.

See "PICTURE CONTROL" on page 29.

4 Start the camcorder.

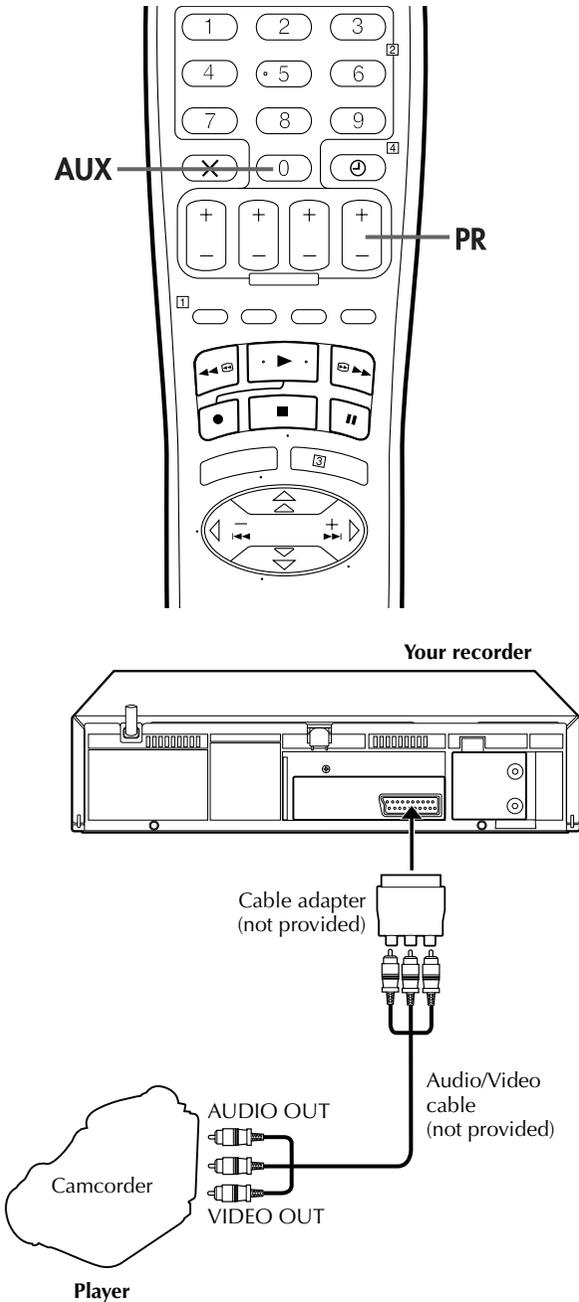
Engage the Play mode of the camcorder.

5 Start the recorder.

Engage the Record mode of the recorder.

NOTES:

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



Edit To Or From Another Video Recorder

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

1 Make connections.

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

2 Set the input mode of recording deck.

With this video recorder, press **AUX** (NUMBER key "0") and/or **PR** to select "L-1".

- When using another recorder as the recording deck, refer to its instruction manual.

3 Set the edit mode.

See "PICTURE CONTROL" on page 29.

4 Start the source player.

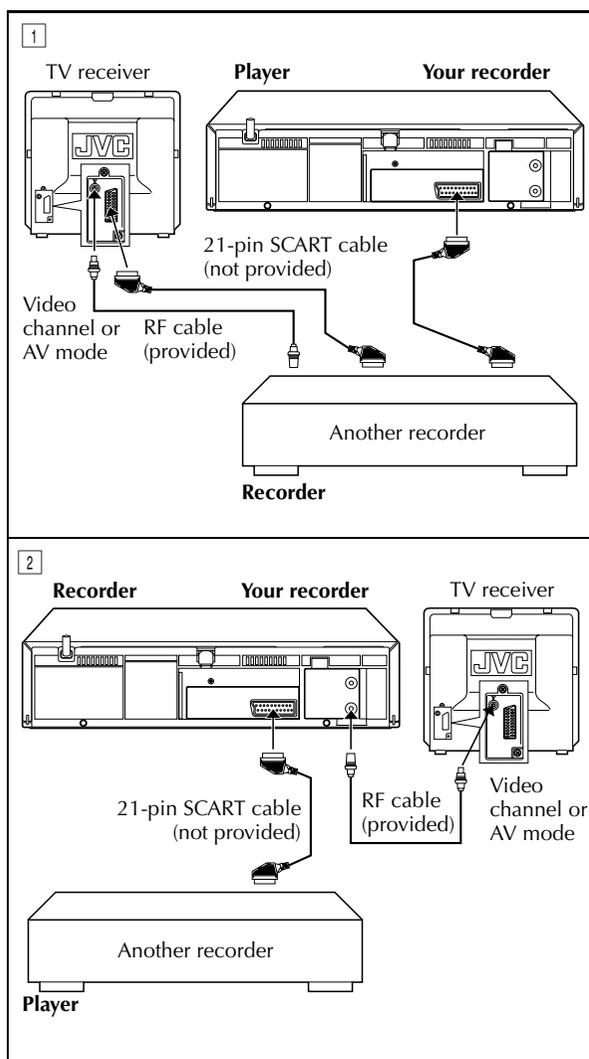
Engage the Play mode of the source player.

5 Start the recording deck.

Engage the Record mode of the recording deck.

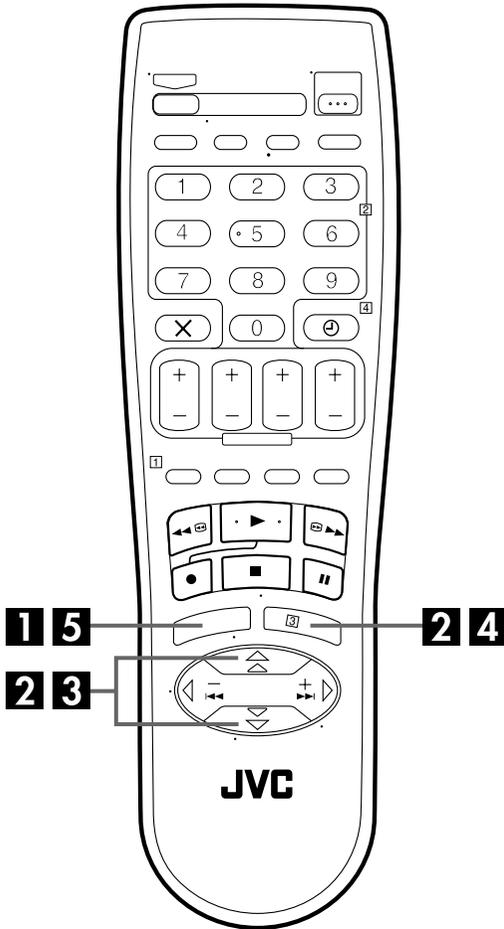
NOTES:

- All necessary cables can be obtained from your dealer.
- When you select "EDIT" to dub tapes in step 3, be sure to select "AUTO" (or "NORM" when "B.E.S.T." is set to "OFF") after you finish dubbing the tapes.
- When you use this recorder as the source player for editing, be sure to set "O.S.D." to "OFF" before starting (pg. 29).



Mode Set

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



You can change various mode settings on the Mode Set screen by following the procedure described below.

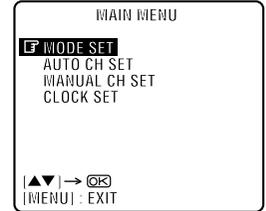
- For each mode setting, see pages 29 to 30.

1 Access the Main Menu screen.

Press **MENU**.

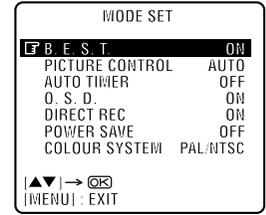
2 Access the Mode Set screen.

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



3 Select the mode.

Press $\Delta \nabla$ to move the highlight bar (pointer) to the item you want to change.



4 Select the mode setting.

Press **OK** or \triangleright .

5 Return to the normal screen.

Press **MENU**.

* The default setting is **bold** in the table below.

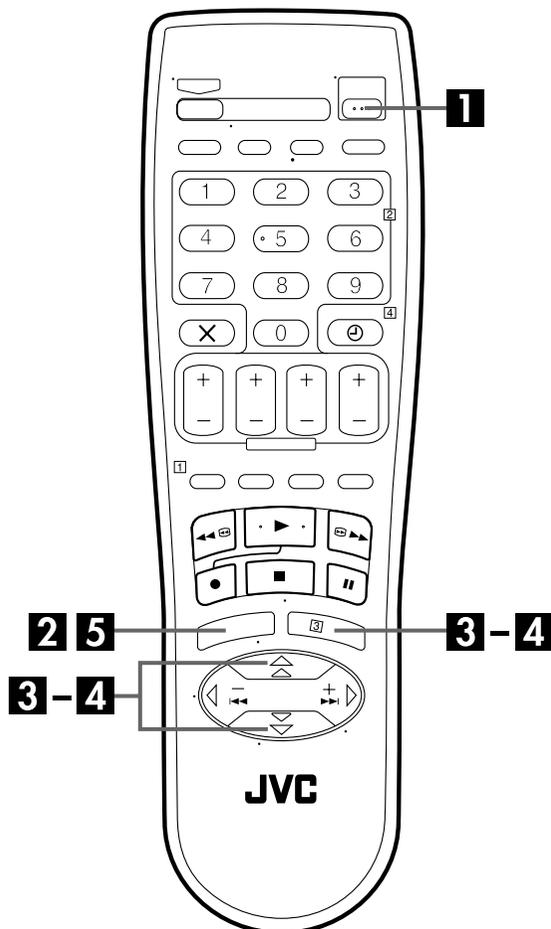
<p>■ B.E.S.T. ON OFF</p>	<p>You can set the B.E.S.T. (Biconditional Equalised Signal Tracking) system to "ON" or "OFF" (☞ pg. 21).</p>
<p>■ PICTURE CONTROL</p> <p>AUTO: Provides the optimised picture benefits of the B.E.S.T. Picture System.</p> <p>EDIT: Minimizes picture degradation during editing (recording and playback).</p> <p>SOFT: Reduces image coarseness when viewing overplayed tapes containing a lot of noise.</p> <p>SHARP: Clearer, sharper-edged picture when viewing images with lots of flat, same-coloured surfaces such as cartoons.</p>	<p>This feature helps you to adjust the playback picture quality according to your preference. Normally select "AUTO".</p> <p>NOTES:</p> <ul style="list-style-type: none"> ● When you select "EDIT", "SOFT" or "SHARP", the selected mode will not change until you select another mode. ● When you select "EDIT" to dub tapes, be sure to select "AUTO" after you finish dubbing the tapes. ● When "B.E.S.T." is "OFF", "PICTURE CONTROL" switches automatically from "AUTO" to "NORM".
<p>■ AUTO TIMER ON OFF</p>	<p>When this function 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.</p> <p>NOTE:</p> <p><i>For safety, when "AUTO TIMER" is set to "OFF", all other recorder functions are disabled while the Timer mode is engaged. To disengage the timer, press ⊕ (TIMER).</i></p>
<p>■ O.S.D. ON OFF</p>	<p>When this function is set to "ON", various operational indicators appear on the TV screen. Messages appear in the selected language (☞ pg. 11 or 12).</p> <p>NOTES:</p> <ul style="list-style-type: none"> ● When you use this recorder as the source 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.
<p>■ DIRECT REC ON OFF</p>	<p>When this function is set to "ON", you can easily start recording the programme that you are watching on your TV. Press and hold ● and press ► on the remote control, or press ● on the recorder.</p> <p>NOTES:</p> <ul style="list-style-type: none"> ● When you use the Direct Rec function, be sure to use a TV offering T-V LINK, etc. and connect a fully-wired 21-pin SCART cable between the recorder and the TV (☞ pg. 7). ● If "DIRECT REC" is set to "OFF", the ● button functions as described in "Basic Recording" (☞ pg. 18). ● During the Direct Rec, "—" appears on the front display panel.

* The default setting is **bold** in the table below.

<p>■ POWER SAVE ON OFF</p>	<p>When this function is set to "ON", you can reduce the power consumption while the recorder is turned off.</p> <p>NOTES:</p> <ul style="list-style-type: none"> • <i>During Power Save mode ...</i> ... the front display panel will be turned off. ... the picture may be distorted momentarily when you turn on/off the recorder. • <i>Power Save does not work when ...</i> ... the recorder is in the Timer mode. ... the recorder's power is turned off after timer-recording or Instant Timer Recording.
<p>■ COLOUR SYSTEM</p> <p>PAL/NTSC: To record PAL signals, or play back a PAL or NTSC tape.</p> <p>MESECAM: To record SECAM signals, or play back a MESECAM tape.</p>	<p>You can play back PAL, NTSC and MESECAM tapes, or record PAL and SECAM* signals on this recorder. Select the appropriate colour system.</p> <p>* 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.</p> <p>NOTES:</p> <p>About NTSC Playback</p> <ul style="list-style-type: none"> • <i>Some TVs shrink the picture vertically and place black bars at the top and bottom of the TV screen. This is not a malfunction on the part of either the video recorder or the TV.</i> • <i>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.)</i> • <i>The counter and tape remaining time readings will be incorrect.</i> • <i>During search, still, or frame-by-frame playback, the picture will be distorted, and there may be a loss of colour.</i> • <i>Depending on the type of TV, the top and bottom portions of superimposed displays may be cut off during NTSC playback.</i>

Clock Set

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



IMPORTANT

Perform the following steps only if —
—the recorder's memory backup has expired.

OR

—you want to adjust the time lag of the recorder's built-in clock.

1 Turn on the recorder.

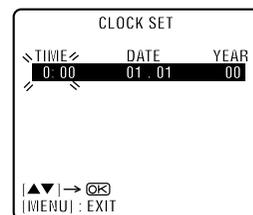
Press \odot /I.

2 Access the Main Menu screen.

Press MENU.

3 Access the Clock Set screen.

Press Δ / ∇ to move the highlight bar (pointer) to "CLOCK SET", then press OK or \triangleright . The Clock Set screen appears.



4 Set the date and time.

Press Δ / ∇ to set the time, then press OK or \triangleright . The "date" display begins blinking. Repeat the same procedure to set the date and year.

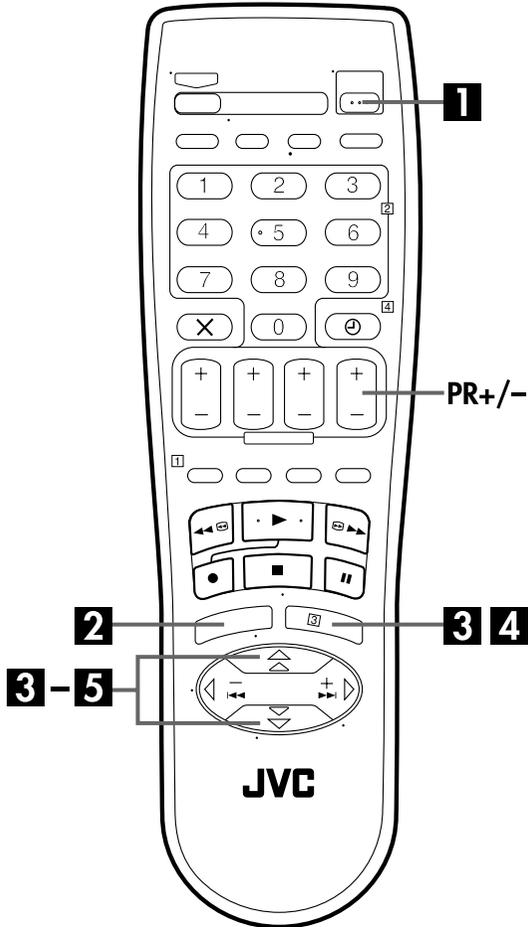
- When you set the time, press and hold Δ / ∇ to change the time by 30 minutes.
- When you set the date, press and hold Δ / ∇ to change the date by 15 days.

5 Start the clock operation.

Press MENU.

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 or by Preset Download (pg. 8, 10).
 — 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 **PR** buttons without going through any vacant channels.

Auto Channel Set

1 Turn on the recorder.

Press ψ /I.

2 Access the Main Menu screen.

Press MENU.

3 Access the Auto Channel Set screen.

Press Δ / ∇ to move the highlight bar (pointer) to "AUTO CH SET", then press **OK** or \triangleright .

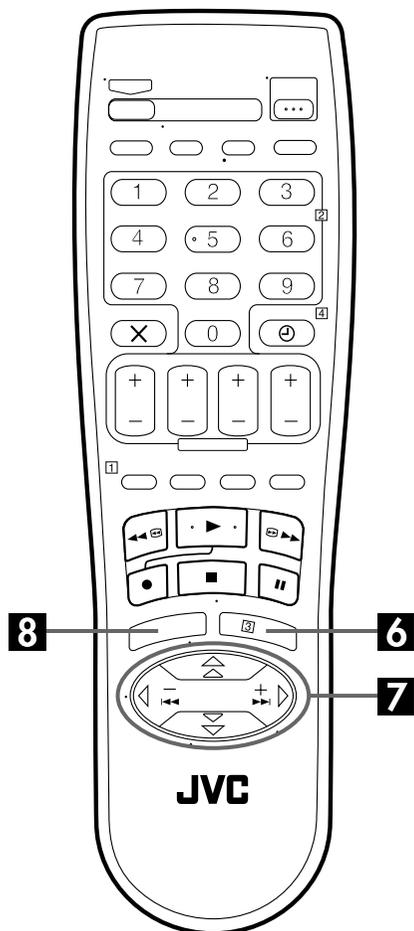


4 Select your country.

Press Δ / ∇ to move the highlight bar (pointer) to your country's name, then press **OK** or \triangleright .

5 Select the language.

Press Δ / ∇ to move the highlight bar (pointer) to the language of your choice.



IMPORTANT

Your video recorder memorizes all detected stations even if reception of some of them is poor. You can delete those stations with an unacceptable picture (☞ pg. 35, "Delete A Channel").

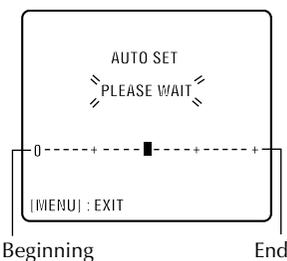
NOTES:

- Fine tuning is performed automatically during Auto Channel Set. If you want to perform it manually, refer to page 35.
- If you perform Auto Channel Set when the aerial cable is not connected properly, "SCAN COMPLETED -NO SIGNAL-" appears on the TV screen in step 7. When this happens, make sure of the aerial connection and press **OK**; Auto Channel Set will take place again.
- If no sound accompanies the picture or the audio sounds unnatural on some channels that have been stored by Auto Set Up, the TV system setting for those channels may be incorrect. Select the appropriate TV system for those channels (☞ pg. 35, "INFORMATION").

6 Perform Auto Channel Set.

Press **OK** twice.

- If you have connected the recorder and your TV via AV connection (☞ pg. 7), the recorder automatically performs the Preset Download and the T-V LINK screen will appear (☞ pg. 10).



- The Auto Set screen appears, and remains on screen while the recorder searches for receivable stations.

As Auto Channel Set progresses, the "█" mark on the TV screen moves from left to right. Wait until the TV screen as shown in step 7 appears.

7 View the Confirmation screen.

After "SCAN COMPLETED" is displayed on the TV screen for about 5 seconds, the Confirmation screen looking like the one to the right appears. The stations your recorder located appear on a Confirmation screen — channel positions (PR) and channels (CH). The blueback screen and the programme currently being broadcast by the blinking station appear alternately for 8 seconds each. To view the next page, use the $\Delta \nabla < \triangleright$ button on the remote control.

PR	CH	ID	PR	CH	ID
01	25	---	08	C26	---
02	C08	---	09	55	---
03	10	---	10	C24	---
04	C65	---	11	C23	---
05	C31	---	12	---	---
06	C32	---	13	---	---
07	C33	---	14	---	---

$\Delta \nabla < \triangleright$: EDIT
 $\rightarrow [X]$: DELETE
 [MENU] : EXIT

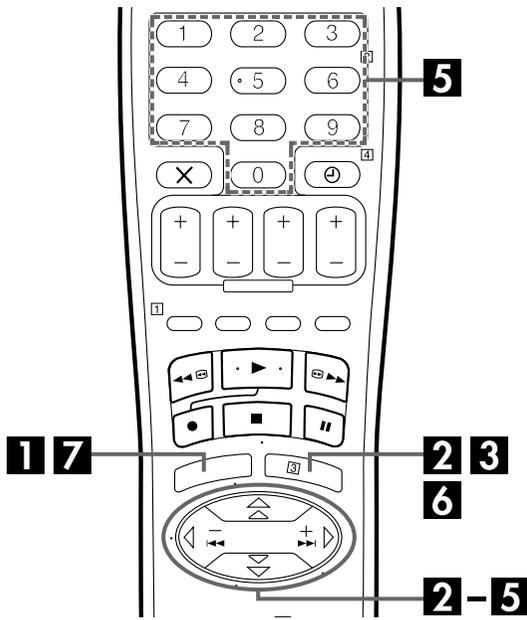
The stations located in the selected country appear at the top of the list.

- The stations located in the selected country appear at the top of the list.

8 Return to the normal screen.

Press **MENU**.

- Using the Confirmation screen, you can skip or add channel positions, enter station names and perform other operations. Refer to pages 34 – 37 for the procedures.



Manual Channel Set

Store channels that were not stored during Auto Set Up (pg. 8), Preset Download (pg. 10) or Auto Channel Set (pg. 32).

1 Access the Main Menu screen.

Press **MENU**.

2 Access the Confirmation screen.

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

3 Select the channel position.

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

(Example) To store in position 12.

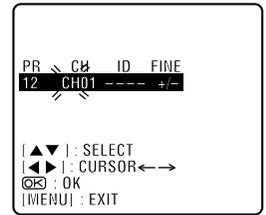
PR	CH	ID	PR	CH	ID
01	25	----	08	C26	----
02	C08	----	09	55	----
03	10	----	10	C24	----
04	C65	----	11	C23	----
05	C31	----	12	----	----
06	C32	----	13	----	----
07	C33	----	14	----	----

$\uparrow \downarrow \leftarrow \rightarrow$: SELECT
 $\leftarrow \rightarrow$: CURSOR
 OK : OK
 MENU : EXIT

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

4 Select the band.

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



5 Input the 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 - pg. 37), press \triangleright until "----" (ID setting) begins blinking, then press $\Delta \nabla$.
- For fine tuning adjustment, press \triangleright until "+/-" begins blinking, then press $\Delta \nabla$. While tuning, "+" or "-" appears.

6 Enter new channel information.

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

- Repeat steps 3 - 6 as necessary.

7 Close the Confirmation screen.

Press **MENU**.

- To change positions, see "Change Station Channel Position" (pg. 35).
- If you wish to set station names other than the ones registered in your recorder, see "Set Stations (B)" (pg. 36).

Delete A Channel

Perform steps 1 and 2 of "Manual Channel Set" on page 34 to access the Confirmation screen before continuing.

1 Select the item.

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

2 Delete a channel.

Press X.

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

3 Close the Confirmation screen.

Press MENU.

Change Station Channel Position

Perform steps 1 and 2 of "Manual Channel Set" on page 34 to access the Confirmation screen before continuing.

1 Select the item.

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

2 Select the new position.

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

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

PR	CH	ID	PR	CH	ID
01	25	----	08	C26	----
02	C08	----	09	55	----
03	10	----	10	C24	----
04	C65	----	11	C23	----
05	C31	----	12	C25	----
06	C32	----	13	----	----
07	C33	----	14	----	----

➔

PR	CH	ID	PR	CH	ID
01	25	----	08	C26	----
02	C65	----	09	55	----
03	C08	----	10	C24	----
04	10	----	11	C23	----
05	C31	----	12	C25	----
06	C32	----	13	----	----
07	C33	----	14	----	----

$\left[\Delta \nabla \triangleleft \triangleright \right]$: MOVE
 $\left[\text{OK} \right]$: MANUAL CH SET
 $\left[\text{MENU} \right]$: EXIT

$\left[\Delta \nabla \triangleleft \triangleright \right]$: MOVE → $\left[\text{OK} \right]$
 $\left[\text{MENU} \right]$: EXIT

- Repeat steps 1 and 2 as necessary.

3 Close the Confirmation screen.

Press MENU.

Fine-Tuning Channels Already Stored

Perform steps 1 and 2 of "Manual Channel Set" on page 34 to access the Confirmation screen before continuing.

1 Select the channel to fine-tune.

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

2 Access the Manual Channel Set screen.

Press OK twice. The Manual Channel Set screen appears.

3 Perform tuning.

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

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

4 Close the Confirmation screen.

Press MENU.

INFORMATION

If you live in Eastern Europe, "TV SYSTEM" setting appears instead of "DECODER" setting on the Manual Channel Set screen. When you can see the picture but can hear no audio, select appropriate TV system (D/K or B/G). Normally, TV programmes are broadcasted as follows.

For Eastern Europe : D/K

For Western Europe : B/G

- 1 Select a country in Eastern Europe in step 4 on page 32.
- 2 Press \triangleright until the TV system (D/K or B/G) blinking on the Manual Channel Set screen in step 4 on page 34.
- 3 Press $\Delta \nabla$ to select appropriate TV System (D/K or B/G).

Set Stations (A)

Set station names that are registered in your recorder.

Perform steps 1 and 2 of "Manual Channel Set" on page 34 to access the Confirmation screen before continuing.

1 Select the item.

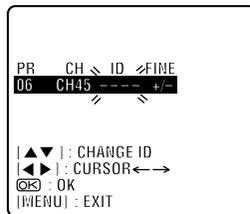
Press $\Delta \nabla \triangleleft \triangleright$ until the item you want begins blinking.

2 Access the Manual Channel Set screen.

Press **OK** twice.

3 Select the new station.

Press \triangleright until the station name (ID) begins blinking, then press $\Delta \nabla$ until the new station's name (ID) you want to store begins blinking. Registered station names (see pg. 37) appear as you press $\Delta \nabla$.



4 Switch the stations.

Press **OK**.

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

5 Close the Confirmation screen.

Press **MENU**.

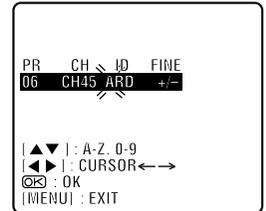
Set Stations (B)

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

Perform steps 1 and 2 of "Manual Channel Set" on page 34 to access the Confirmation screen and then perform step 1 and 2 of "Set Stations (A)" in the left column before continuing.

1 Select the character for station name.

Press \triangleright until the first letter of the station name begins blinking.



2 Enter the new character.

Press $\Delta \nabla$ to cycle through the characters (A–Z, 0–9, –, *, +, _ (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 \triangleleft until the incorrect character begins blinking. Then enter the correct character by pressing $\Delta \nabla$.

3 Close the Confirmation screen.

Press **MENU**.

NOTE:

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

TV Station And ID List

ID*	STATION NAME
1000	TV1000
3SAT	3SAT
ADLT	ADULT
ANT3	ANTENA3
ARD	ARD
ARTE	ARTE
BBC	BBC GROUP
BBC1	BBC1
BBC2	BBC2
BR3	BAYERN3
C+	CANAL PLUS
C1	PORTUGUSES
CAN5	CANALE5
CANV	KETNET CANVAS
CH4	CHANNEL4
CH5	CHANNEL5
CHLD	CHILD
CINE	CINEMA
CLUB	TELECLUB
CMT	CMT
CNN	CNN
CSUR	ANDALUCIA
DISC	DISCOVERY
DR	DR TV
DRS	DRS
DSF	DSF
ETB1	ETB1
ETB2	ETB2
EURO	EURONEWS
EUSP	EUROSPORTS
FEMM	FEMMAN
FILM	FILM
FNET	FILMNET
FR2	France2
FR3	France3
GALA	GALAVISION
HR3	HESSEN3
INFO	INFO-KANAL
ITA1	ITALIA1
ITA7	ITALIA7
ITV	ITV
JSTV	JSTV
KA2	KA2
KAB1	KABEL1
KAN2	KANAL2
LOCA	LOCAL
M6	M6
MBC	MBR
MCM	MCM
MDR	MDR
MOVE	MOVIE
MTV	MTV
MTV3	MTV3
N3	NORD3
N-TV	N-TV
NBC	NBC SUPER
NDR3	NDR3
NED1	NED1
NED2	NED2
NED3	NED3
NEWS	
NICK	NICKELODEON
NRK	NRK
NRK2	NRK2
ODE	ODEON
ORF1	ORF1
ORF2	ORF2

ID*	STATION NAME
ORF3	ORF3
OWL3	OWL3
PREM	PREMIERE
PRO7	PRO7
RAI1	RAI1
RAI2	RAI2
RAI3	RAI3
RET4	RETE4
21	TELE21
RTBF	RTBF1 or 2
RTL	RTL
RTL2	RTL2
RTL4	RTL4
RTL5	RTL5
RTP	RTP
S4	SCHWEIZ4
SAT1	SAT1
SBS	SBS
SHOW	SHOW
SIC	SOCIEDADE
SKY	SKY CHANNEL
SKYN	SKY NEWS
SPRT	SPORT
SRTL	SUPER RTL
STAR	STAR-TV
SVT1	SVT1
SVT2	SVT2
SWR	SUEDWEST3
TCC	TCC
TELE	TELE
TEL5	TELES
TF1	TF1
TM3	TM3
TMC	TELEMONTECARLO
TNT	TNT INT
TRT	TRT INT
TS1	TS1
TSR	TSR
TV1	BRTN TV1
TV2	TV2
TV3	TV3
TV4	TV4
TV5	TV5
TV6	TV6
TVE1	TVE1
TVE2	TVE2
TVG	TV GALICIA
TVI	TV INDEPENDENT
TVN	TV NORGE
VCR	VIDEO
VERO	VERONICA
VH-1	VH-1
VIVA	VIVA
VIV2	VIVA2
VMTV	VIDEO MUSIC
VOX	VOX
VT4	VT4
VTM	VTM
WDR1	West1
WDR3	West3
YLE1	YLE1
YLE2	YLE2
ZDF	ZDF
ZTV	ZTV

* 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.

Video Channel Set

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

IMPORTANT

Perform the following steps only if —

- 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 recorder to your TV via the AV connection (☞ pg. 7), since you do not need the video channel you have to set the video channel to off.

If you have connected the recorder to your TV via the RF connection (☞ pg. 7), 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.

1 Access the Video Channel Set mode.

Hold down **■/▲** on the recorder until the front display panel shows the following.



2 Set the RF output system.

The blinking number on the display indicates the RF output system of your country.

- If you have selected MAGYARORSZÁG (36), ČESKÁ REPUBLIKA (42), POLSKA (48) or OTHER EASTERN EUROPE (EE) for the country setting (☞ pg. 8, 12), press **△▽** to set to "2".
- For other countries, set to "1". Then press **OK**. (1: B/G 2: D/K)



3 Set the video channel.

With AV Connection

Press **PR -** until the front display panel shows "10UT--" (or "20UT--").



- Now the video channel is set to off.

With RF Connection

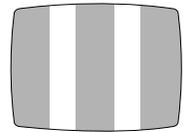
Press **PR +** or **-** to set the video recorder to a vacant channel between 22 and 69 which is not occupied by any local station in your area.

(Example) If channel 50 is available in your area



Then set your TV to UHF channel 50.

- If the two vertical white bars appear clearly on the TV screen as shown to the right, go to step 4.
- If the two vertical white bars do not appear clearly, re-set the video recorder to another vacant channel and try again.



NOTES:

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

4 Exit the Video Channel Set mode.

Press **OK** on the remote control.

With AV Connection

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

With RF Connection

The channel on which the TV screen in step 3 appears clearly is your video channel.

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

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

POWER

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
1. No power is supplied to the recorder.	● The mains power cord is disconnected.	Connect the mains power cord.
2. The clock is functioning properly, but the recorder cannot be powered.	● "⊖" is displayed on the front display panel with Auto Timer set to "OFF".	Press the ⊖ button to turn the "⊖" indicator off.
3. The remote control won't function.	● The batteries are discharged.	Replace the dead batteries with new ones.

TAPE TRANSPORT

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
1. The tape does not run during recording.	●  is displayed on the front display panel.	Press ► 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
1. The playback picture does not appear while the tape is running.	<ul style="list-style-type: none"> ● If you're using the RF 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. 	<p>If you are using the RF connection, . . . set the TV receiver to the video channel. . . . perform "Video Channel Set" ( pg. 38)</p> <p>If you are using the AV connection, set the TV to its AV mode.</p>
2. Noise appears during visual search.	● This is normal.	
3. Noise appears during normal playback.	● The automatic tracking mode is engaged.	Try manual tracking. ( pg. 16)
4. The playback picture is blurred or interrupted while TV broadcasts are clear or "USE CLEANING CASSETTE" message appears on the screen.	● The video heads may be dirty.	Use a dry cleaning cassette TCL-2UX or consult your JVC dealer.

RECORDING

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
1. Recording cannot be started.	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> "L-1" has been selected as the input mode. 	Set to the desired channel.
3. Tape-to-tape editing is not possible.	<ul style="list-style-type: none"> 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. 	<p>Confirm that the source is properly connected.</p> <p>Confirm that all units' power switches are turned on.</p> <p>Set the input mode to "L-1".</p>
4. Camcorder recording is not possible.	<ul style="list-style-type: none"> The camcorder has not been properly connected. The input mode is not correct. 	<p>Confirm that the camcorder is properly connected.</p> <p>Set the input mode to "L-1".</p>

TIMER RECORDING

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
1. Timer recording won't work.	<ul style="list-style-type: none"> The clock and/or the timer have been set incorrectly. The timer is not engaged. 	<p>Re-perform the clock and/or timer settings.</p> <p>Press  and confirm that "" is displayed on the front display panel.</p>
2. Timer programming is not possible.	<ul style="list-style-type: none"> Timer recording is in progress. 	Timer programming can't be performed while a timer recording is in progress. Wait until it finishes.
3. "  and "  " on the front display panel won't stop blinking.	<ul style="list-style-type: none"> The timer is engaged but there's no cassette loaded. 	Load a cassette with the record safety tab intact, or cover the hole using adhesive tape.
4. The cassette is automatically ejected, and "  and "  " on the front display panel won't stop blinking.	<ul style="list-style-type: none"> The loaded cassette has had its record safety tab removed. 	Remove the cassette and cover the hole with adhesive tape, or insert a cassette with the record safety tab intact.
5. "  blinks for 10 seconds and the Timer mode is disengaged.	<ul style="list-style-type: none">  has been pressed when there are no programs in memory, or the timer record information has been programmed incorrectly. 	Check the programmed data and re-program as necessary, then press  again.
6. The cassette is automatically ejected, the power shuts off and "  and "  " won't stop blinking.	<ul style="list-style-type: none"> 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.

OTHER PROBLEMS

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
1. Whistling or howling is heard from the TV during camcorder recording.	<ul style="list-style-type: none"> • The camcorder's microphone is too close to the TV. • The TV's volume is too high. 	<p>Position the camcorder so its microphone is away from the TV.</p> <p>Turn the TV's volume down.</p>
2. When scanning channels, some of them are skipped over.	<ul style="list-style-type: none"> • Those channels have been designated to be skipped. 	<p>If you need the skipped channels, restore them (☞ pg. 34).</p>
3. The channel cannot be changed.	<ul style="list-style-type: none"> • Recording is in progress. 	<p>Press II to pause the recording, change channels, then press ▶ to resume recording.</p>
4. Channel settings that were made manually seem to have changed or disappeared.	<ul style="list-style-type: none"> • After the manual settings were made, Auto Channel Set was performed. 	<p>Perform manual setting again.</p>
5. No channels are stored in the recorder's memory.	<ul style="list-style-type: none"> • The TV aerial cable was not connected to the recorder when Auto Set Up was performed. 	<p>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 (☞ pg. 8).</p>

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.

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. During search, slow, still and frame-by-frame playback, I can't hear any audio. What's the problem?**
- A. This is normal.
- Q. Can the video recorder indefinitely remain in the still mode?**
- A. No. It stops automatically after 5 minutes to protect the heads.
- Q. When returning from variable-speed search to normal playback, the picture is disturbed. Should I be concerned about this?**
- A. No, it is normal.
- Q. Noise bar appear during variable-speed search. What's the problem?**
- A. This is normal.
- Q. Sometimes, during Index Search, the video recorder can't find the programme I want to see. Why not?**
- A. There may be index codes too close together.

RECORDING

- Q. When I pause and then resume a recording, the end of the recording before the pause is overlapped by the beginning of the continuation of recording. Why does this happen?**
- A. This is normal. It reduces distortion at the pause and resume points.
- Q. Can the video recorder indefinitely remain in the Record-Pause mode?**
- A. No. The video recorder goes to its Stop mode automatically after 5 minutes to protect the heads.
- Q. What happens if the tape runs out during recording?**
- A. The video recorder automatically rewinds it to the beginning.

TIMER RECORDING

- Q. "○" and "⊖" remain lit on the front display panel. Is there a problem?**
- A. No. This is a normal condition for a timer recording in progress.
- Q. Can I programme the timer while I'm watching a tape or a TV broadcast?**
- A. You won't see the picture as it is replaced by the on-screen menu, but the audio from the programme or tape you're viewing can be heard.

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SPECIFICATIONS

GENERAL

Power requirement : AC 220 V – 240 V~, 50 Hz/60 Hz

Power consumption

Power on : 17 W

Power off : 4.9 W

Temperature

Operating : 5°C to 40°C

Storage : –20°C to 60°C

Operating position : Horizontal only

Dimensions (WxHxD)

: 400 mm x 94 mm x 278 mm

Weight

: 3.5 kg

Format : VHS PAL standard

Maximum recording time

: 240 min. with E-240 video cassette

VIDEO/AUDIO

Signal system : PAL-type colour signal and CCIR monochrome signal, 625 lines 50 fields

Recording system : Rotary two-head herical scan system

Signal-to-noise ratio: 45 dB

Horizontal resolution

: 250 lines

Frequency range : 70 Hz to 10,000 Hz

Input/Output : 21-pin SCART connector :

IN/OUT x 1

TUNER/TIMER

TV channel storage capacity

: 99 positions (+AUX position)

Tuning system : Frequency synthesized tuner

Channel coverage : VHF 47 MHz – 89 MHz/

104 MHz – 300 MHz/

302 MHz – 470 MHz

UHF 470 MHz – 862 MHz

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

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

JVC

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