JVC

VIDEO CASSETTE RECORDER

ENGLISH

HR-J240E

CONTENTS

VHS PAL

INSTRUCTIONS

EN

LPT0002-085B

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.

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"

VHS **HQ** PAL

- Only cassettes marked "VHS" can be used with this videorecorder.
- HQ VHS is compatible with existing VHS equipment.

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.

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

Failure to heed the following precautions may result in damage to the recorder, remote control or video cassette.
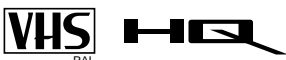
1. **DO NOT place the recorder . . .**
   ... in an environment prone to extreme temperatures or humidity.
   ... in direct sunlight.
   ... in a dusty environment.
   ... in an environment where strong magnetic fields are generated.
   ... on a surface that is unstable or subject to vibration.

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.
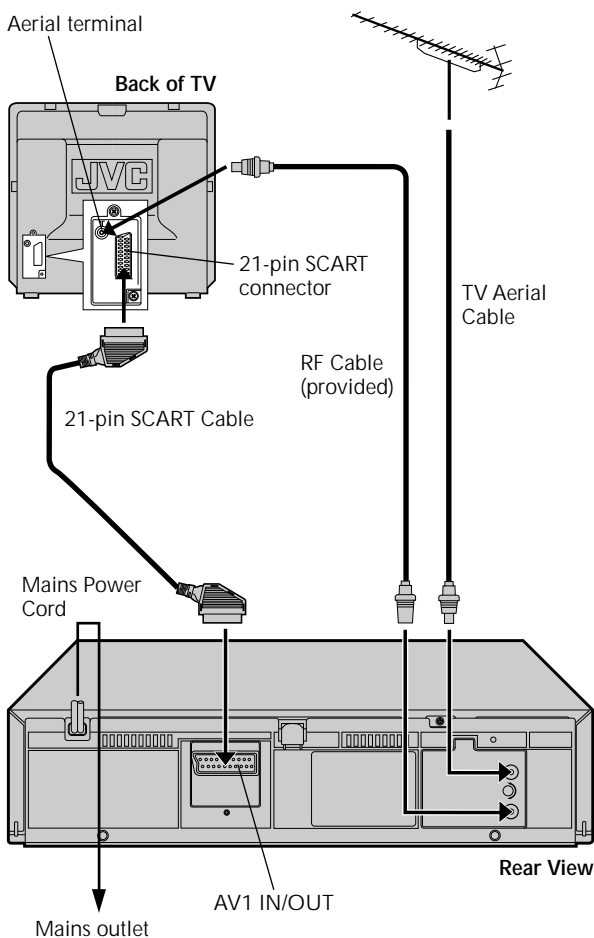
ABOUT HEAD CLEANING

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.

Basic Connections

Aerial terminal

Back of TV

21-pin SCART connector

TV Aerial Cable

RF Cable (provided)

21-pin SCART Cable

Mains Power Cord

Rear View

AV1 IN/OUT

Mains outlet

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.

1
CHECK CONTENTS
Make sure the package contains all of the accessories listed in "Specifications" (☞ pg. 31).

2
SITUATE RECORDER
Place the recorder on a stable, horizontal surface.

3
CONNECT 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 Terminals . . .*
  a– Disconnect the TV aerial cable from the TV.
  b– Connect the TV aerial cable to the ANT. IN jack on the rear panel of the recorder.
  c– Connect the provided RF cable between the RF OUT jack on the rear panel of the recorder and the TV's aerial terminal.

Before operating the recorder, make sure the TV's channel is set to the VIDEO channel (☞ pg. 5).

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.

Before operating the recorder, make sure the TV is set to the VIDEO (or AV) mode.
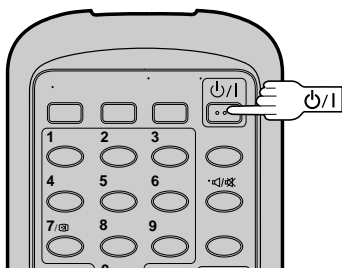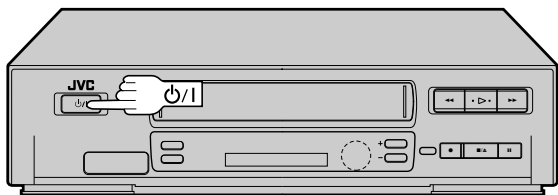
4
CONNECT RECORDER TO MAINS
Plug the end of the mains power cord into a mains outlet.

After you plug the mains power cord into a mains outlet, the Auto Set Up display appears on the TV screen and/or on the recorder's front display panel when the ⏻/। button on the recorder/remote control is pressed for the first time to power on the recorder ☞ pg. 4.

Auto Set Up

Auto Channel Set

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.

If you have moved to a different area or a new station starts broadcasting in your area, perform tuner setting. ☞ pg. 21

When the ⏻/I 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 Auto Set Up function sets the tuner channels automatically.

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. ☞ pg. 3
● If you want to use the on-screen display, the TV should be set to its AV mode (with AV connection ☞ pg. 3) or UHF channel 36 (with RF connection ☞ pg. 3).

1 START AUTO SET UP

Press ⏻/I.

● The Auto Set Up function scans all the channels that are receivable by your VCR. It then automatically assigns each receivable channels to the **TV PROG** buttons. It skips non-receivable channels.
● As Auto Set Up progresses, the " ■ " mark on the screen moves from left to right.
● After you perform Auto Set Up, if the tuner channels have not been set properly or if "CH – –" is displayed on the front display panel, make sure that the aerial cable is connected to the recorder properly and turn off the recorder power once, and turn the power back on to try Auto Set Up again.
● If there is a power cut, or if you press ⏻/I or **MENU** while Auto Set Up is in progress, Auto Set Up will be interrupted; be sure to turn off the recorder power once and try again.

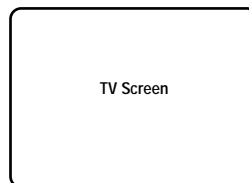**DO NOT press any button on the recorder or remote control while Auto Set Up is in progress.**

On-Screen Display

AUTO CH SET
PLEASE WAIT
START   FINISH
■■■■■■■■----------
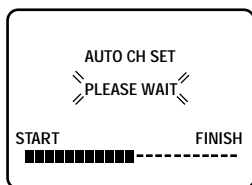
During Auto Set Up
"PLEASE WAIT" blinks on the screen and "Auto" blinks on the front display panel.

TV Screen

When Auto Set Up is completed, the lowest position number will appear on the front display panel.

Front Display Panel

Auto

CH 1

NOTES:
● If you have connected your TV to the recorder with RF connection and the on-screen display appearing on UHF channel 36 looks distorted, refer to the front display panel.
● If you want to set the tuner manually such as to add or skip channels, to swap channel positions, or to fine-tune channels, ☞ pg. 22.

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.
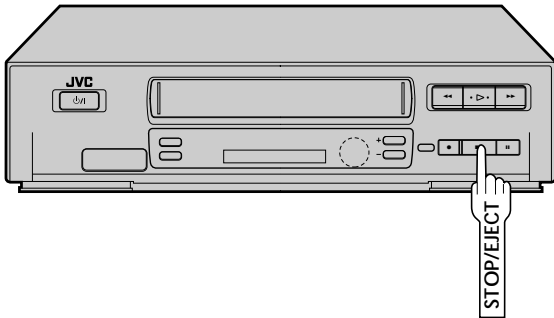
The video recorder is designed to send picture and sound signals via the connected RF cable to your TV on UHF channel 36. After you have turned on the recorder, set your TV to UHF channel 36, fine-tune as necessary, and check if picture and sound being received from the recorder come out clearly or not:

● If clear enough   you don't have to perform the following steps.
● If not   UHF channel 36 or neighbouring channels may be occupied by local stations. Perform the following steps to change the Video Channel to another channel between 32 – 40.

Before starting, make sure of the following:
● The recorder's power should be off.
● No cassette should be inserted in the recorder.
● The connected TV's power should be on.

STOP/EJECT

1 SET TV CHANNEL

Set your TV to a channel between 32 and 40 that you want to use as the Video Channel on the TV.

2 BRING TEST SIGNAL ON SCREEN

Hold down the recorder's **STOP/EJECT** button for more than 5 seconds.

● "– OUT" appears on the display panel.

3 TUNE YOUR RECORDER

Turn the RF output channel adjustment screw on the rear panel of the recorder by using a screwdriver until the two vertical bars become as clear as they can be.

4 EXIT VIDEO CHANNEL SET MODE

Press the recorder's **STOP/EJECT** button again to finish the setting.

TEST SIGNAL
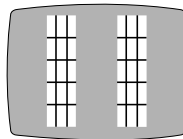
The channel on which the screen to the left appear clearly in step **3** is your Video Channel.

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

Clock Set

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

1 TURN THE RECORDER ON

Press ⏻/I.

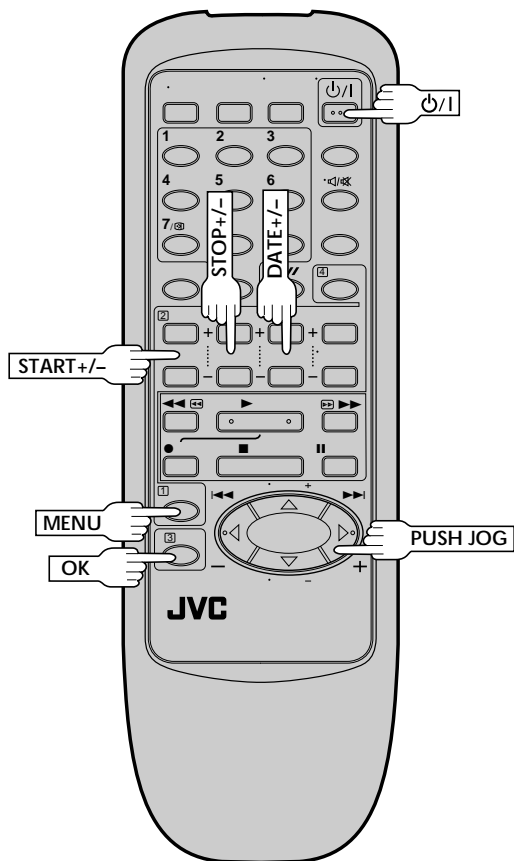**2** ACCESS MAIN MENU SCREEN

Press **MENU** twice.

3 ACCESS CLOCK SET SCREEN

Press **PUSH JOG** △▽ to place the pointer next to "CLOCK SET", then next press **OK**. The Clock Set screen appears.

MAIN MENU
𝔉 FUNCTION SET
TUNER SET
CLOCK SET
[▲/▼] → ◎
[MENU] : EXIT

CLOCK SET		
TIME	DATE	YEAR
00: 00	01 . 01	00
[+/–] → ◎		
[MENU] : EXIT		

4 SET TIME

Press **START +/–** to set the time.

● Press and hold either button to delay or advance the time by 30 minutes.

5 SET DATE

Press **STOP +/–** to set the date.

● Press and hold either button to change the date by 15 days.

6 SET YEAR

Press **DATE +/–** to set the year.
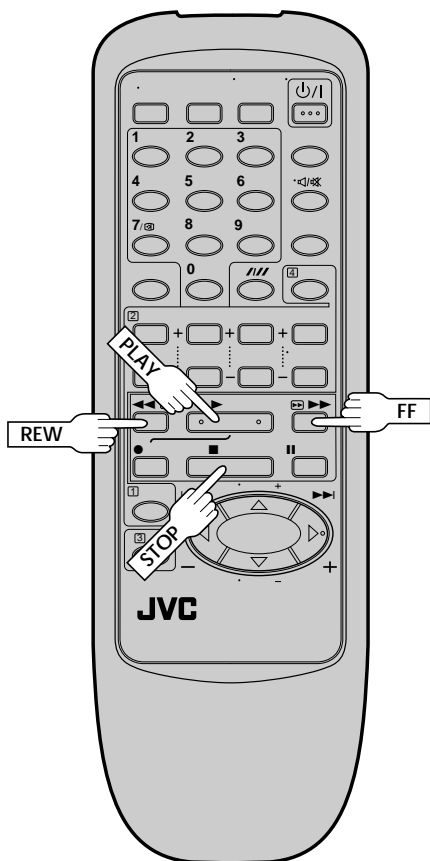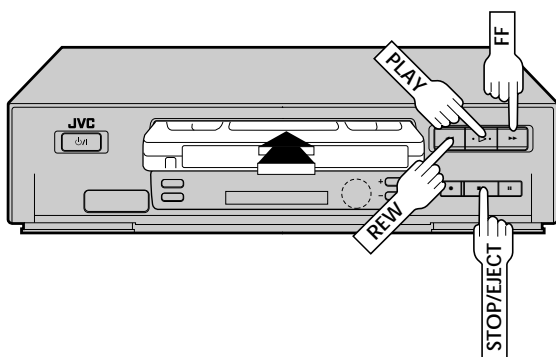
7 START CLOCK OPERATION

Press **MENU**.

NOTE:

If the year digits are automatically cleared, it is possible that you have input 29th February for a non-leap year. Input the correct data.

Basic Playback

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

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

1 LOAD A CASSETTE

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

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

2 FIND PROGRAMME START POINT

If the tape is advanced past the start point, press **REW**. To go forward, press **FF**.

3 START PLAYBACK

Press **PLAY**. "BEST" appears blinking in the recorder's display panel during automatic tracking. (☞ pg. 12)

4 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
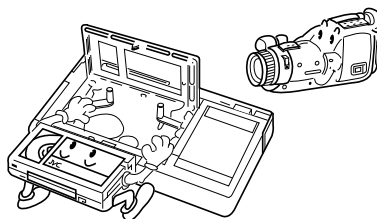
● Compact VHS camcorder recordings can be played on this video recorder. Simply place the recorded cassette into a VHS Cassette Adapter and it can be used just like any full-sized VHS cassette.
● This video recorder can record on regular VHS and Super VHS cassettes. However, it will record and play back regular VHS signals only. It is not possible to play back a recorded Super VHS tape.

Playback Features
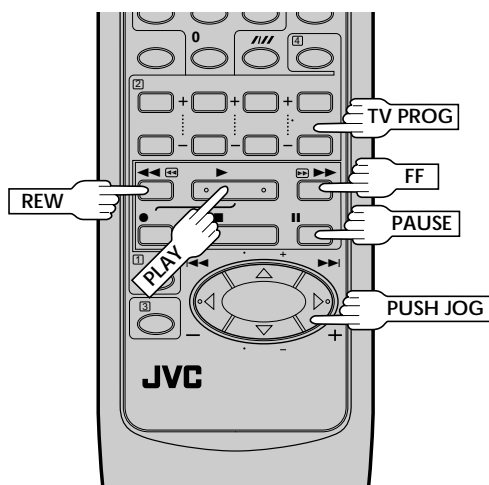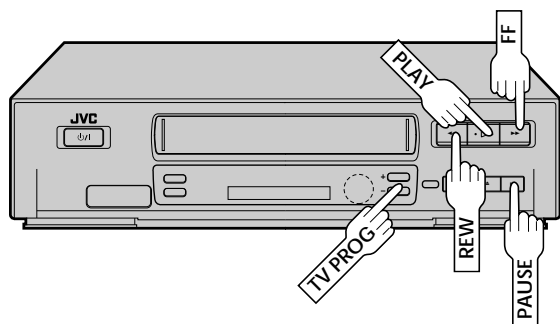
Variable-Speed Search

1 ### ACTIVATE VARIABLE-SPEED SEARCH

During playback, press **PUSH JOG** ◁ 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**.

Take advantage of special functions possible with the recorder's controls or the remote control.

High-Speed Search

1 ### ACTIVATE HIGH-SPEED SEARCH

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

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

Still Picture/Frame-By-Frame Playback

1 ### PAUSE DURING PLAYBACK

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

2 ### ACTIVATE FRAME-BY-FRAME PLAYBACK

Press **PAUSE**.
OR
Press **PUSH JOG** ◁ or ▷.

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

Slow Motion

1 ### 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 **PUSH JOG** ◁ or ▷. Release to return to still picture.

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

NOTES:
● *For short searches, press and hold **FF** or **REW** for over 2 seconds. When released, normal playback resumes.*
● *In the search, still, or frame by frame playback mode, noise may appear in the picture, the picture may be distorted, and there may be a loss of colour.*

Repeat Playback

Your video recorder can automatically play back the whole tape 20 times repeatedly.

1 START PLAYBACK

Press **PLAY**.

2 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 20 times automatically, and then stops.

3 STOP PLAYBACK

Press **STOP** at any time to stop playback.

NOTE:

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

Information On Colour System

You can also record SECAM signals, or play back a MESECAM tape on this recorder. When a MESECAM tape is played back, "MESECAM" appears on the screen for about 5 seconds. MESECAM is the designation for tapes with SECAM signals that have been recorded on a MESECAM-compatible PAL video recorder.

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.
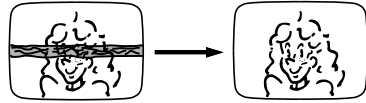
1 OVERRIDE AUTOMATIC TRACKING

Press the recorder's **TV PROG** + and – simultaneously to engage manual tracking.

2 ADJUST TRACKING MANUALLY

Press **TV PROG** + or – to adjust tracking.

3 RETURN TO AUTOMATIC TRACKING

Press the recorder's **TV PROG** + and – simultaneously to re-engage automatic tracking.

NOTE:

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

NTSC Playback

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

1 LOAD A CASSETTE

Insert a cassette recorded in NTSC.

2 START PLAYBACK

Press **PLAY**.

- "NTSC" appears on the screen for about 5 seconds.
- Some TVs shrink the picture vertically and place black bars at the top and bottom of the screen. This is not a malfunction on the part of either the video recorder or the TV.
- The picture may roll up and down. This can be corrected using the V-HOLD control found on some TVs. (This cannot be corrected if the TV does not have a V-HOLD control.)
- The counter and tape remaining time readings will be incorrect.
- During search, still, or frame-by-frame playback, the picture will be distorted, and there may be a loss of colour.
- Depending on the type of TV, the top and bottom portions of superimposed displays may be cut off during NTSC playback.

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.

▶▶ 2

NOTE:

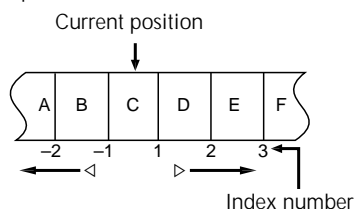*Before starting, make sure the recorder is in the Stop mode.*

1 ## ACTIVATE INDEX SEARCH

Press **PUSH JOG** ◁ or ▷ (◀◀ or ▶▶) on the remote control. "◀◀ 1" or "▶▶ 1" is displayed on screen and search begins in the corresponding direction.

● To access index codes 2 through 9, press **PUSH JOG** ◁ or ▷ repeatedly until the correct index number is displayed.

Ex.: To locate the beginning of B from the current position, press **PUSH JOG** ◁ twice.
To locate the beginning of D from the current position, press **PUSH JOG** ▷ once.

Current position

A	B	C	D	E	F
		−2	−1	1	2	3

◁ ▷

Index number

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

Instant ReView

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

NOTE:

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

1 ## 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 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.

NOTE:

Instant ReView is not possible while the recorder is in the Timer mode.

Next Function Memory

You can set your recorder's power to go off automatically after the tape is fully rewound. Before starting, make sure the recorder is in the Stop mode.
For Automatic Power Off After Tape Rewind . . .
. . . press **REW**, then press ⏻/I within 2 seconds.

NOTE:

*If you want the power to be turned off automatically when the counter reads "0:00:00" (instead of at the beginning of the tape), press **C. MEMORY** so that the "M" mark appears before pressing **REW**.*

Counter Memory

Returns to the counter reading of "0:00:00" to conveniently find a specific place on the tape automatically.

1 ## SET COUNTER MEMORY

Press **C.(COUNTER) RESET** during playback at a point you wish to locate later. The counter reads "0:00:00". Then press **C.(COUNTER) MEMORY**, and "M" appears in front of the counter digits.

2 ## ACTIVATE COUNTER MEMORY

When you wish to return to the designated point, press **STOP** and then **REW** or **FF**.

● The tape rewinds or fast-forwards and stops at about 0:00:00 automatically.
● To cancel Counter Memory, press **C.(COUNTER) MEMORY** again.

Tape Position Indicator

The tape position indicator appears on screen when, from the Stop mode, you press **FF**, **REW** or perform an Index Search. The position of "■" in relation to "0" (beginning) or "+" (end) shows you where you are on the tape.
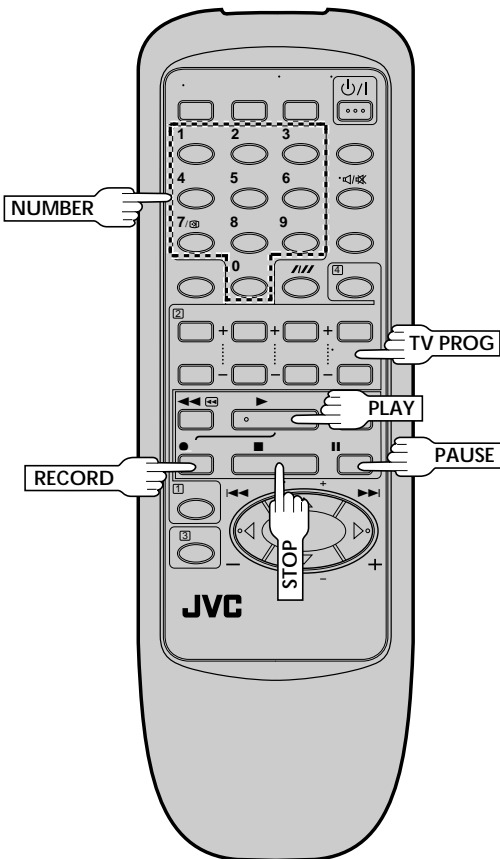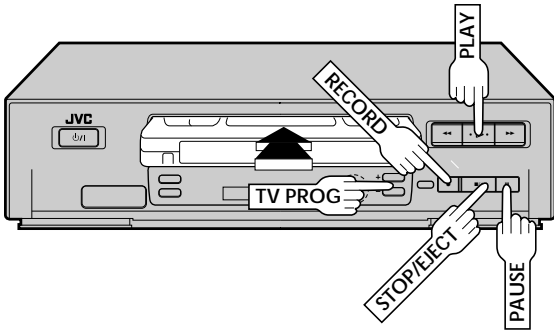"O.S.D." (☞ pg. 14) must be set to "ON", or the indicator will not appear.

▶▶
0 ----+----■----+----+
1:23:45

Beginning   End
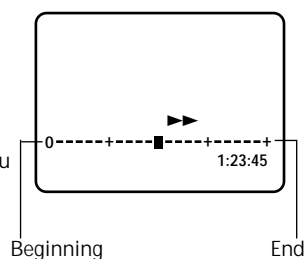
NOTE:

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

Basic Recording

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

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.

1
LOAD A CASSETTE
Insert a cassette with the record safety tab intact.

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

2
CHOOSE A PROGRAMME
Press **TV PROG +/–** or the **NUMBER** keys to select the channel you wish to record.

3
START RECORDING
Press and hold **RECORD** and **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 (☞ pg. 12).

4
PAUSE/RESUME RECORDING
Press **PAUSE**. Press **PLAY** to resume recording.

5
STOP RECORDING
Press **STOP** on the remote control or **STOP/EJECT** on the recorder. Then press **STOP/EJECT** to remove the cassette.

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.
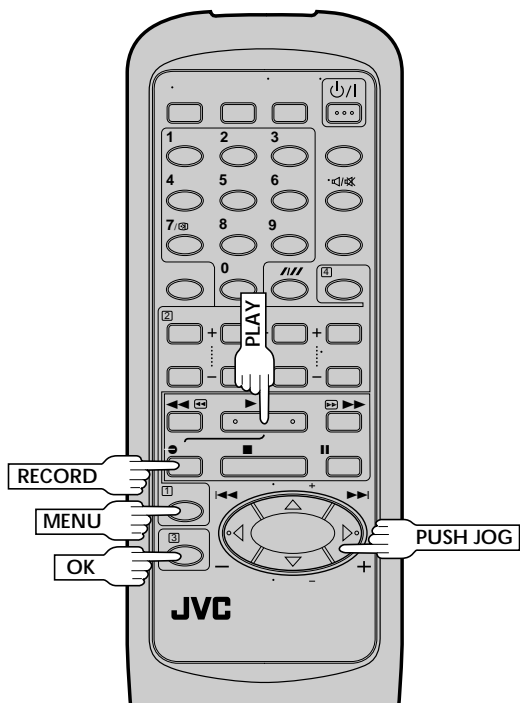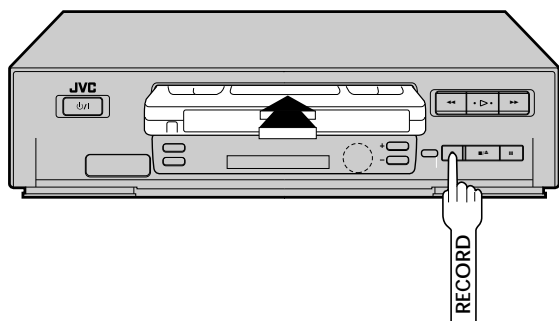
Accidental erasure prevention

● 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

B.E.S.T. Picture System

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

Display Panel Indication

$$BEST$$

As the tape check progresses, the "—" marks on the display panel increase upward. Once the "BEST" indicator starts blinking, the check is complete.

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

Recording

1 ### LOAD A CASSETTE
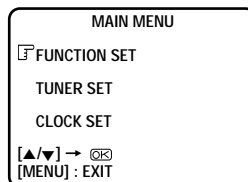Insert a cassette with the record safety tab intact.

● The recorder power comes on automatically.

2 ### ACCESS MAIN MENU SCREEN
Press **MENU** twice.

3 ### ACCESS FUNCTION SET SCREEN
Place the pointer next to "FUNCTION SET" by pressing **PUSH JOG** △▽, then press **OK**.

```
        MAIN MENU

  ☞FUNCTION SET

    TUNER SET

    CLOCK SET

  [▲/▼] → ⊙⊠
  [MENU] : EXIT
```

4 ### ACCESS B.E.S.T. SCREEN
Place the pointer next to "B.E.S.T." by pressing **PUSH JOG** △▽, then press **OK**.

```
       FUNCTION SET

    AUTO TIMER
    O.S.D.
  ☞B.E.S.T.


  [▲/▼] → ⊙⊠
  [MENU] : EXIT
```

5 ### SELECT MODE
Place the pointer next to "ON" by pressing **PUSH JOG** △▽, then press **OK**.

```
         B.E.S.T.

    ☞ON

      OFF


  [▲/▼] → ⊙⊠
  [MENU] : EXIT
```
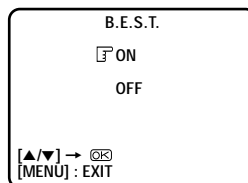
6 ### RETURN TO NORMAL SCREEN
Press **MENU**.

7 ### START RECORDING
Press and hold **RECORD** and **PLAY** on the remote, or press **RECORD** on the recorder.

● The recorder spends approximately 7 seconds assessing the condition of the tape, then begins recording.
● When the "BEST" indicator begins blinking, that means adjustment is complete.
● Pressing the recorder's **RECORD** button while "BEST" is displayed does not start Instant Timer Recording (☞ pg. 15).
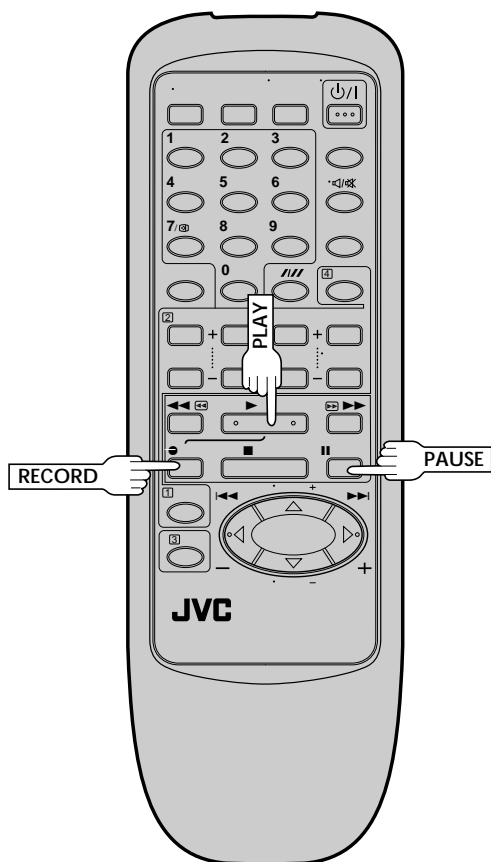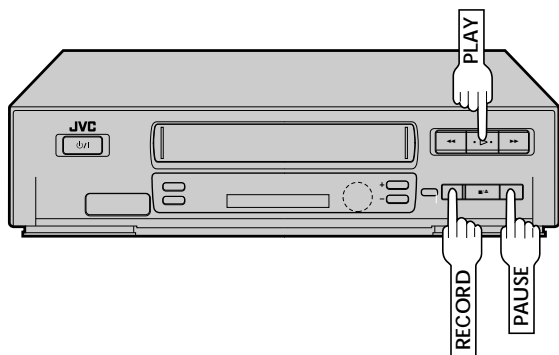
NOTES:
● *The B.E.S.T. system works only after a tape has been inserted and the Record mode is first initiated. It does not work during recording.*
● *In the case of timer recording, the B.E.S.T. system works before recording is initiated.*
● *Once the cassette is ejected, the B.E.S.T. data is cancelled. The next time the cassette is used for recording, B.E.S.T. is re-performed.*

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* **RECORD** *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* **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* **5** *on page 12.*

Playback

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

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.

1
START PLAYBACK
Press **PLAY**.

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

NOTES:
● *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* **2** *through* **6** *on page 12.*
● *"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.*

On-Screen Displays

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

MENU

OK

PUSH JOG

JVC

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

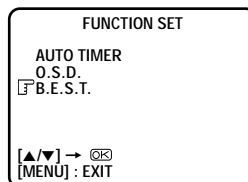**1** TURN ON THE RECORDER
Press ⏻/I.

2 ACCESS MAIN MENU SCREEN
Press **MENU** twice.

3 ACCESS FUNCTION SET SCREEN
Place the pointer next to "FUNCTION SET" by pressing **PUSH JOG** △▽, then press **OK**.

4 ACCESS O.S.D. SCREEN
Place the pointer next to "O.S.D." by pressing **PUSH JOG** △▽, then press **OK**.

```
        FUNCTION SET

    AUTO TIMER
☞  O.S.D.
    B.E.S.T.


[▲/▼] → ⊙⊀
[MENU] : EXIT
```

5 ENABLE/DISABLE ON-SCREEN DISPLAY
The default setting is "ON", so if you want on-screen displays, leave the setting as it is and go to step **6**. If you don't want the displays to appear, press **PUSH JOG** △▽ to place the pointer next to "OFF", then press **OK**.

```
        O.S.D.

    ☞ ON

        OFF


[▲/▼] → ⊙⊀
[MENU] : EXIT
```

6 RETURN TO NORMAL
Press **MENU**.

NOTES:
● *When you use this recorder as the player for editing, be sure to set "O.S.D." to "OFF" before starting.*
● *During playback, the operation mode indicators may be disturbed depending on the type of tape being used.*

The superimposed indication on the TV screen tells you what the recorder is doing.
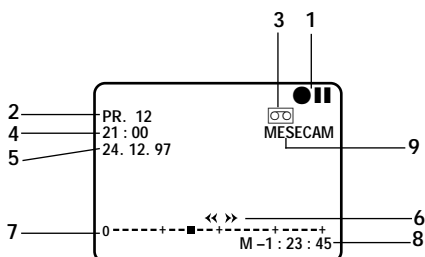
1– Operation mode indicators
2– Channel position number/Aux. indicator (AUX)
3– Cassette loaded mark
4– Clock display
5– Current day/month/year
6– Tape direction
7– Tape position indicator (☞ pg. 10)
8– Counter display (including Counter Memory indicator)
9– NTSC/MESECAM display (☞ pg. 9)

Recording Features
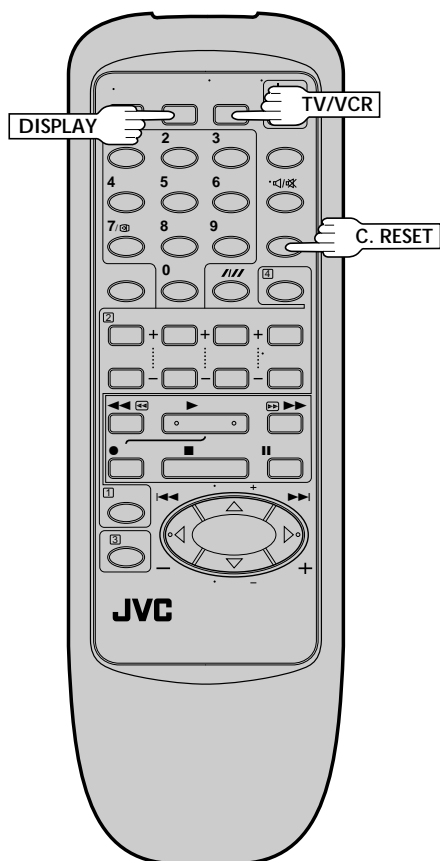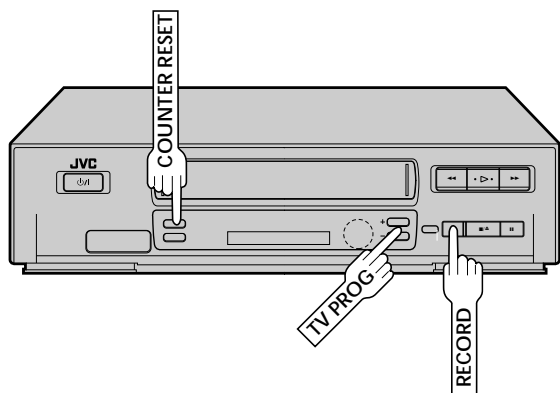
Record One Programme While Watching Another

1 ### 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.

Elapsed Recording Time Indication

You can check the exact time of a recording.

1 ### SET COUNTER DISPLAY

Press **DISPLAY** until a counter reading appears on the dispay panel.

● By pressing the **DISPLAY** button, you can change the display to show the counter reading, channel position* or clock time.
  * channel position is not displayed during playback.

2 ### RESET COUNTER

Press **C.(COUNTER) RESET** before starting recording or playback.

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

Instant Timer Recording (ITR)

This easy method 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 **RECORD** on the recorder.

2 ### ENGAGE ITR MODE

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

3 ### SET RECORDING DURATION

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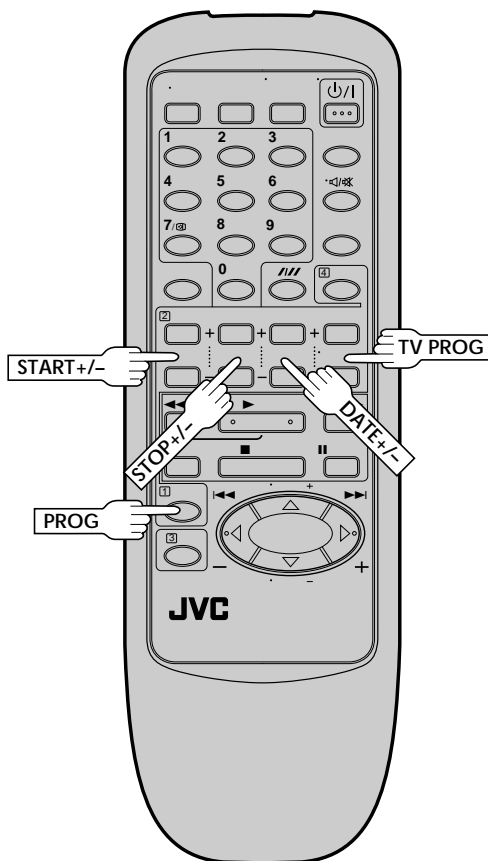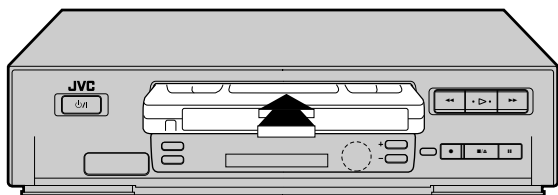
NOTE:

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

Timer Programming

Remember, the clock must be set before you can programme the timer (☞ pg. 6).

Before performing the following steps:
● 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).

1

ACCESS TIMER PROGRAMMING SCREEN

Press **PROG**.

2

ACCESS PROGRAMME SCREEN

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

```
            – P1 –
 START          STOP
 –:– –    →     –:– –


 DATE           TV PROG
 25.12            – –
[+/–] → ⊙⊠
[MENU] : EXIT
```
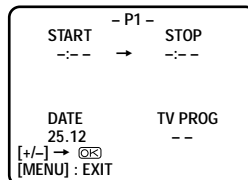
3

ENTER 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.

```
            – P1 –
 START          STOP
 21:00    →     –:– –


 DATE           TV PROG
 25.12            – –
[+/–] → ⊙⊠
[MENU] : EXIT
```
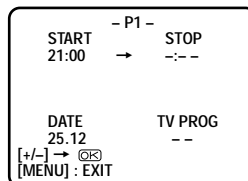
4

ENTER PROGRAMME STOP TIME

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

5

ENTER PROGRAMME DATE

Press **DATE +/–**. (The current date appears on screen. The date you enter appears in its place.)

6

ENTER CHANNEL POSITION

Press **TV PROG +/–**.

```
            – P1 –
 START          STOP
 21:00    →     22:00


 DATE           TV PROG
 25.12             1
[+/–] → ⊙⊠
[MENU] : EXIT
```

START+/–

STOP+/–

PROG

TV PROG

DATE+/–

JVC

7
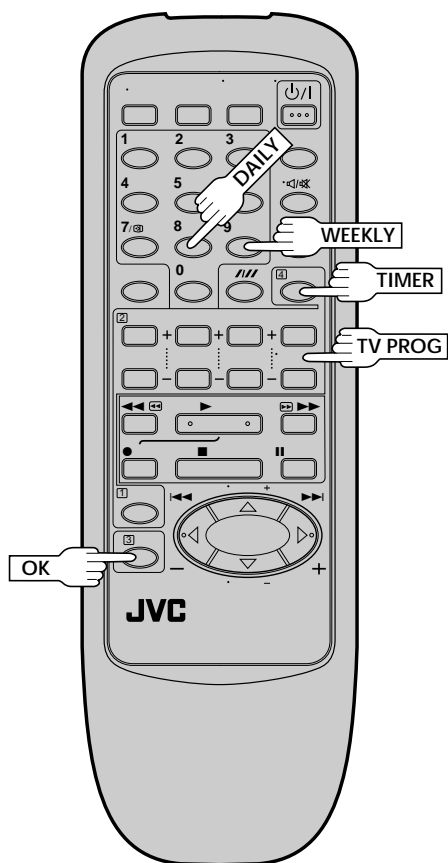
RETURN TO NORMAL SCREEN

After confirming all information is correct, press **OK** and the normal screen appears.

● Repeat steps **1**–**7** for each additional programme.

8

ENGAGE RECORDER'S TIMER MODE

Press **TIMER**. The recorder turns off automatically.

To Timer-Record Weekly Or Daily Serials . . .
. . . anytime during steps **2** through **7**, 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.

NOTES:
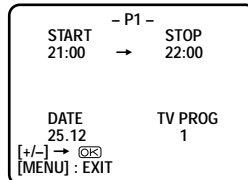● *To timer-record a satellite broadcast through a satellite tuner connected to the AV1 IN/OUT connector on the back of the recorder, in step **6**, set "TV PROG" to "AUX" by pressing **TV PROG** +/–. Before the selected programme begins, select the appropriate channel on the satellite tuner, then set the tuner's timer. If your satellite tuner doesn't have a timer, leave the unit's power switched on.*
● *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. To record the extra programme, you must first cancel any unnecessary programmes (☞ pg. 18).*

Check And Cancel Programmes

1 ACCESS PROGRAMME SCREEN

Press **PROG CHECK.**

- If the recorder is turned on and the TV is set to its VIDEO channel or AV mode, you can check program information on screen.
- Each time you press **PROG CHECK**, the next programme's information appears.

If All Information Is Correct . . .

. . . programming is completed.

If You Wish To Revise Data . . .

. . . with the recorder's power turned on, go to step **2**.

If You Wish To Cancel A Program . . .

. . . with the recorder's power turned on, press **CANCEL**. All information you input is deleted.

2 REVISE PROGRAMME INFORMATION

Input the appropriate data using the **START +/–, STOP +/–, DATE +/–** and **TV PROG +/–** buttons on the remote control.

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.

1 ACCESS MAIN MENU SCREEN

Press **MENU** twice.

2 ACCESS FUNCTION SET SCREEN

Press **PUSH JOG** △▽ to place the pointer next to "FUNCTION SET", then press **OK**.

```
         MAIN MENU
 ⌐ FUNCTION SET

   TUNER SET

   CLOCK SET

 [▲/▼] → OK
 [MENU] : EXIT
```
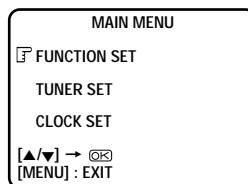
3 ACCESS AUTO TIMER SCREEN

Press **PUSH JOG** △▽ to place the pointer next to "AUTO TIMER", then press **OK**.

```
         FUNCTION SET
 ⌐ AUTO TIMER
   O.S.D.
   B.E.S.T.



 [▲/▼] → OK
 [MENU] : EXIT
```
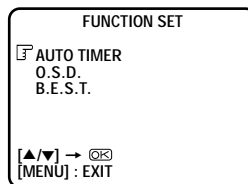
4 SELECT MODE

Press **PUSH JOG** △▽ to select either "ON" or "OFF".

```
         AUTO TIMER
        ON
      ⌐ OFF



 [▲/▼] → OK
 [MENU] : EXIT
```
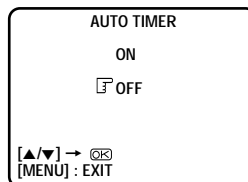
5 RETURN TO NORMAL SCREEN

Press **MENU**.

NOTE:

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

Edit To Or From Another Video Recorder
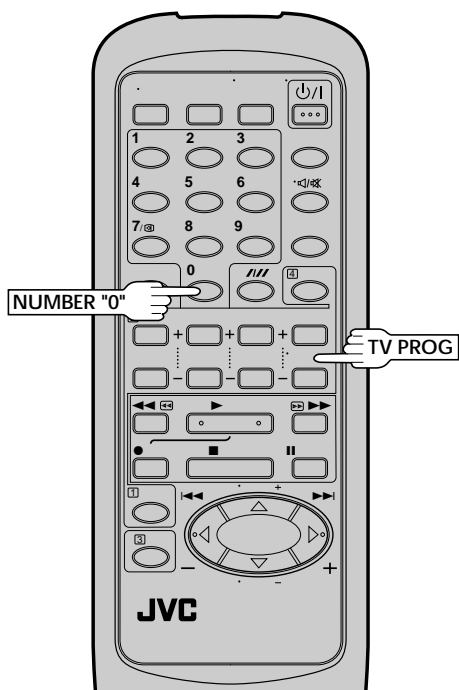
You can use your video recorder as the source player or the recording deck.

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

2 ## SET RECORDING DECK'S INPUT MODE
Set to AUX. With this video recorder, press **NUMBER** key "0" and/or **TV PROG** so that "AU" appears on the display panel.

3 ## START SOURCE PLAYER
Engage its Play mode.

4 ## START RECORDING DECK
Engage its Record mode.

NOTE:
All necessary cables can be obtained from your dealer.

NUMBER "0"

TV PROG

JVC

TV Receiver | **Player** | Your recorder

VIDEO CHANNEL or AV mode

RF Cable (provided)

21-pin SCART Cable (not provided)

Another recorder

Recorder

Recorder | Your recorder | TV Receiver

21-pin SCART Cable (not provided)

RF Cable (provided)

VIDEO CHANNEL

Another recorder
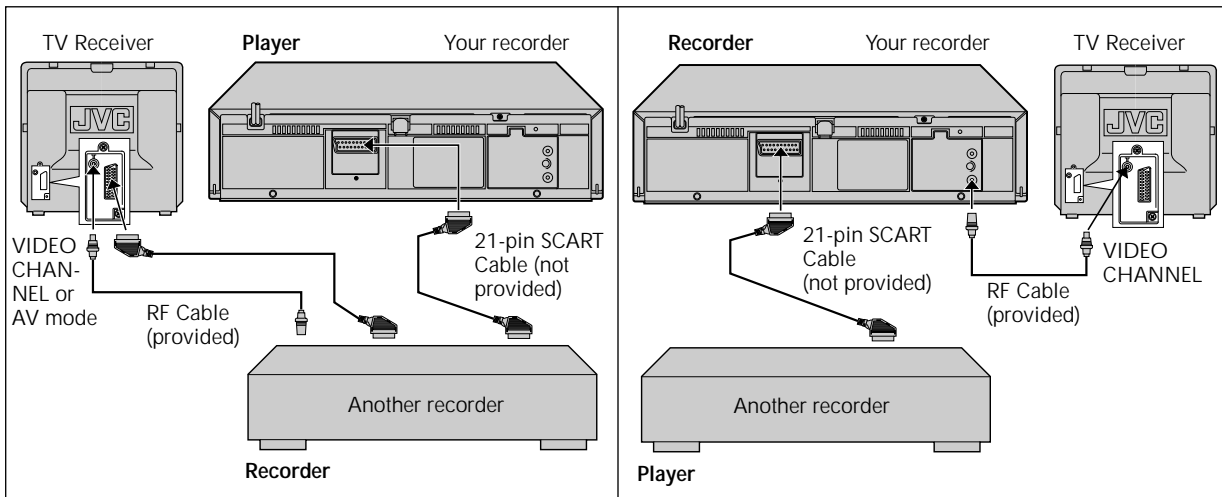
Player

Edit From A Camcorder

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

1 ## MAKE CONNECTIONS

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

2 ## SET RECORDER'S INPUT MODE

Press **NUMBER** key "0" and/or **TV PROG** so that "AU" appears on the display panel.

3 ## START CAMCORDER

Engage its Play mode.

4 ## START RECORDER

Engage its Record mode.

NUMBER "0"

TV PROG

JVC

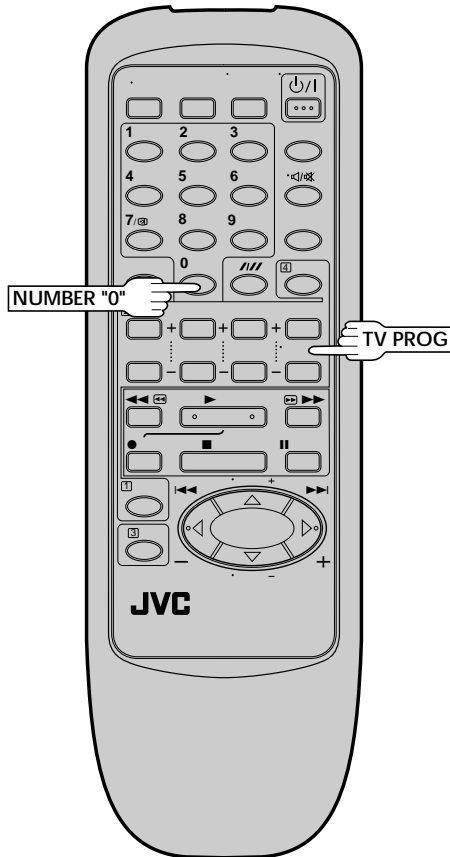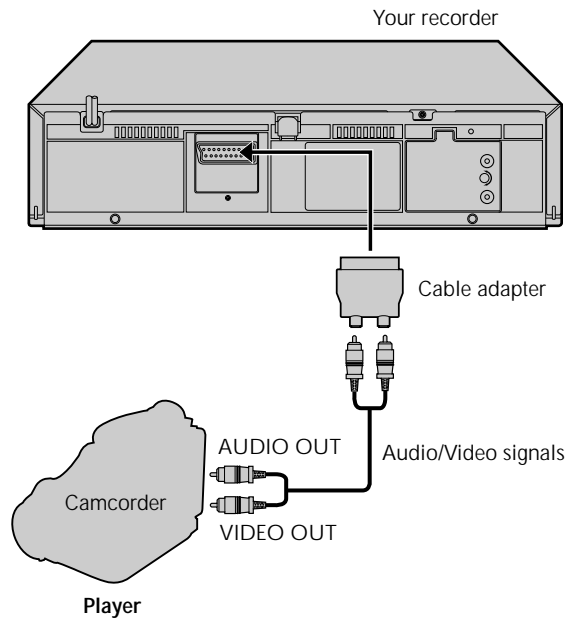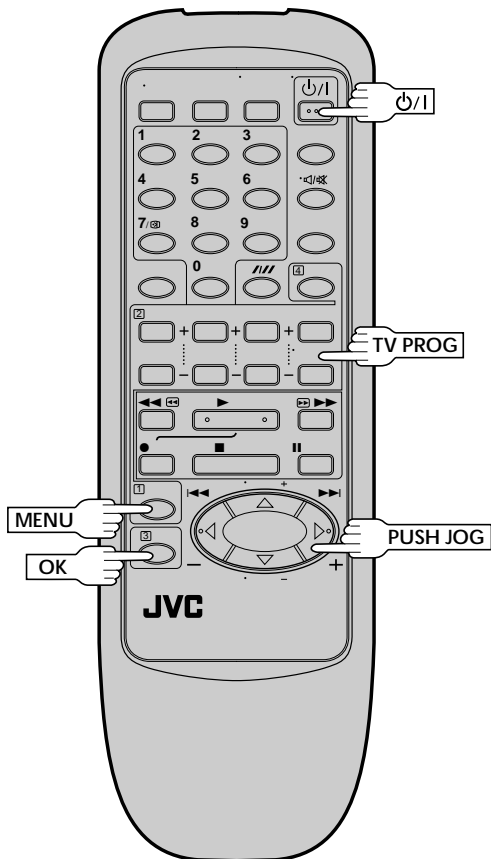Your recorder

Cable adapter

AUDIO OUT

Audio/Video signals

Camcorder

VIDEO OUT

Player

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

IMPORTANT
Perform the following steps only if auto channel set has not been set correctly by Auto Set Up function (☞ pg. 4) or if you have moved to a different area or if a new station starts broadcasting in your area.

Your recorder needs to memorise all necessary stations in channel positions in order to record TV programmes. Auto Channel Set automatically assigns all receivable stations in your area so that you can call them up with the **TV PROG** buttons without going through any vacant channels.

Auto Channel Set

1 TURN ON THE RECORDER
Press ⏻/I.

2 ACCESS MAIN MENU SCREEN
Press **MENU** twice.

3 ACCESS TUNER SET SCREEN
Press **PUSH JOG**△▽ to place the pointer next to "TUNER SET", then press **OK**.

```
         MAIN MENU

     FUNCTION SET

 ☞ TUNER SET

     CLOCK SET

 [▲/▼] → OK
 [MENU] : EXIT
```
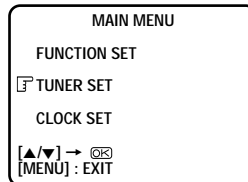
4 SELECT AUTO CH SET MODE
Press **PUSH JOG**△▽ to place the pointer next to "AUTO CH SET", then press **OK**.

● Auto Channel Set will start.

```
         TUNER SET

     CH EDIT

     MANUAL CH SET

 ☞ AUTO CH SET

 [▲/▼] → OK
 [MENU] : EXIT
```

```
                          CH  FRQ      CH  FRQ
                          01  150      07  229
     AUTO CH SET          02  165      08  237
                          03  195      09  355
    PLEASE WAIT           04  205      10  365
                          05  213      11  374
 START        FINISH      06  221      12  384
 ■■■■■■■■■■------------   [▲/▼] → [◄] : DELETE
                          [▲/▼] → OK  : EDIT
                          [MENU] : EXIT
```

IMPORTANT
Since your video recorder memorizes all detected stations even if the reception condition is poor, some of those stored stations may produce a noisy picture. To delete those stations, ☞ "Delete A Channel" on page 23.

5 RETURN TO NORMAL SCREEN
Press **MENU**.

Manual Channel Set

Store channels that were not stored during Auto Set Up (☞ pg. 4) or Auto Channel Set (☞ pg. 21).

1 ACCESS TUNER SET SCREEN

Perform steps **1** – **3** of "Auto Channel Set" on page 21.

2 ACCESS MANUAL CH SET SCREEN

Press **PUSH JOG** △▽ to place the pointer next to "MANUAL CH SET", then press **OK**.

3 SELECT BAND

Press **PUSH JOG** △▽ to place the pointer next to the band of your choice, then press **OK** to initiate Manual Channel Set.

```
     BAND SELECT              MANUAL CH SET

     ☞ VHF L                   ⸜⸜PLEASE WAIT⸝⸝

       VHF H
                               VHF L  00MHZ
       UHF

[▲/▼] → ⟨OK⟩             [MENU] : EXIT
[MENU] : EXIT
```
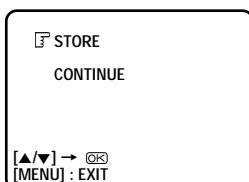
4 SET DESIRED STATION
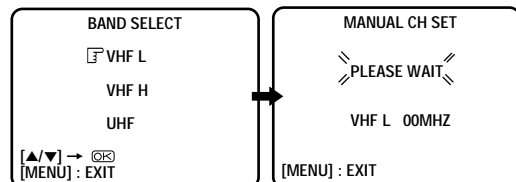
The screen to the right appears when a station is detected. To store the detected station, place the pointer next to "STORE" by pressing **PUSH JOG** △▽, then press **OK**. If you do not want to store the station, press **PUSH JOG** △▽ to place the pointer next to "CONTINUE", then press **OK**. Channel search will resume.

```
     ☞ STORE

       CONTINUE

[▲/▼] → ⟨OK⟩
[MENU] : EXIT
```

● The blueback screen and the TV picture currently being broadcast appear alternately for 8 seconds each.

5 PERFORM TUNING

For fine tuning adjustment, press **PUSH JOG** △▽ until the picture becomes clearer, then press **OK**.

● The CH section will blink.

```
     MANUAL CH SET

     CH     ⸜FRQ⸝
     – –    ⸜350⸝

[▲/▼] : FINE TUNING
⟨OK⟩ : SELECT CH
[MENU] : EXIT
```
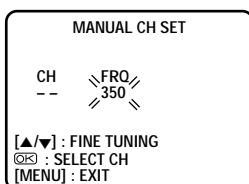
6 SELECT POSITION

Press **NUMBER** keys to input an open channel position which you want to store the detected station (for a one-digit number, enter "0" first). Then press **OK**.

```
     MANUAL CH SET

     ⸜CH⸝    FRQ
     ⸜– –⸝   350

[0–9] : INPUT CH
[MENU] : EXIT
```
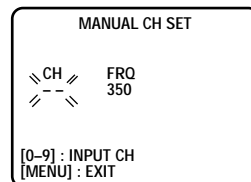
● To continue channel search, press **PUSH JOG** △▽ to select "CONTINUE", then press **OK**. Repeat steps **4** – **6** as necessary.
● To set channels for other bands, press **PUSH JOG** △▽ to select "BAND SELECT", then press **OK** to go back to the Band Select screen. Repeat steps **3** – **6**.
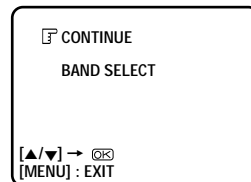
```
     ☞ CONTINUE

       BAND SELECT

[▲/▼] → ⟨OK⟩
[MENU] : EXIT
```

7 RETURN TO NORMAL SCREEN

Press **MENU**.

EN *23*

Delete A Channel

1 ### ACCESS TUNER SET SCREEN
Perform steps **1** – **3** of "Auto Channel Set" on page 21.

2 ### ACCESS CHANNEL LIST
Press **PUSH JOG** △▽ to place the pointer next to "CH EDIT", then press **OK**.

3 ### SELECT CHANNEL
Press **PUSH JOG** △▽ to until the channel you want to delete begins blinking.

```
CH  FRQ        CH  FRQ
01  150        07  229
02  165        08  237
03  195        09  355
04  205        10  365
05  213        11  374
06  221        12  384
[▲/▼] → [◀] : DELETE
[▲/▼] → OK : EDIT
[MENU] : EXIT
```

4 ### DELETE CHANNEL
Press ◁ .

● To re-store it, simply press ▷ .
● Repeat steps **3** – **4** as necessary.

```
CH  FRQ        CH  FRQ
01  – – –      07  229
02  165        08  237
03  195        09  355
04  205        10  365
05  213        11  374
06  221        12  384

[▲/▼] → [▶] : ADD
[MENU] : EXIT
```

5 ### RETURN TO NORMAL SCREEN
Press **MENU**.

Swap Channel Positions

Example: To swap CH03 and CH09.

1 ### ACCESS TUNER SET SCREEN
Perform steps **1** – **3** of "Auto Channel Set" on page 21.

2 ### ACCESS CHANNEL LIST
Press **PUSH JOG** △▽ to place the pointer next to "CH EDIT", then press **OK**.

3 ### SELECT POSITION (e.g. 03)
Press **PUSH JOG** △▽ until the section of CH "03" begins blinking, then press **OK**.

● Only "03" will blink.

```
CH  FRQ        CH  FRQ
01  150        07  229
02  165        08  237
03  195        09  355
04  205        10  365
05  213        11  374
06  221        12  384
[0 – 9]: INPUT CH
OK : FINE TUNING
[MENU] : EXIT
```

4 ### SELECT POSITION (e.g. 09)
Press **NUMBER** keys to input "0" and "9".

● The two selected channels will be swapped.
● To cancel the channel swapping, press ◁ .

```
CH  FRQ        CH  FRQ
01  150        07  229
02  165        08  237
03  355        09  195
04  205        10  365
05  213        11  374
06  221        12  384
[◀]: CANCEL
OK : OK
[MENU] : EXIT
```

5 ### STORE NEW POSITIONS
Press **OK**.

● Repeat steps **3** – **5** as necessary.

6 ### RETURN TO NORMAL SCREEN
Press **MENU**.

Fine-Tuning Channels

1

ACCESS TUNER SET SCREEN

Perform steps **1** – **3** of "Auto Channel Set" on page 21.

2

ACCESS CHANNEL LIST

Press **PUSH JOG** △▽ to place the pointer next to "CH EDIT", then press **OK**.

3

SELECT CHANNEL TO FINE-TUNE

Press **PUSH JOG** △▽ until the channel you want to tune begins blinking, then press **OK** twice.

● The "FRQ" number for that channel starts blinking.

```
CH  FRQ        CH  FRQ
01   150       07  229
02   165       08  237
03   195       09  355
04   205       10  365
05   213       11  374
06   221       12  384
[▲/▼] : FINE TUNING
OK  : OK
[MENU] : EXIT
```

4

PERFORM TUNING

Press **PUSH JOG** △▽ until the picture becomes clearer, then press **OK**.

● Repeat steps **3** and **4**.

5

RETURN TO NORMAL SCREEN

Press **MENU**.

PLAYBACK

Q. What happens if the end of the tape is reached during playback or search?
A. The tape is automatically rewound to the beginning.

· ·

Q. Can the video recorder indefinitely remain in the still mode?
A. No. It stops automatically after 5 minutes to protect the heads.

· ·

Q. During search, slow, still and frame-by-frame playback, I can't hear any audio. What's the problem?
A. This is normal.

· ·

Q. When returning from multi-speed search to normal playback, the picture is disturbed. Should I be concerned about this?
A. No, it is normal.

· ·

Q. Noise bars appear during multi-speed search. What's the problem?
A. This is normal.

· ·

Q. Other than preventing further recording, what effect does removing the Record Safety tab have?
A. It disables marking of index codes.

· ·

Q. Sometimes, during Index Search, the video recorder can't find the programme I want to see. Why not?
A. There may be index codes too close together.

· ·

RECORDING

Q. When I pause and then resume a recording, the end of the recording before the pause is overlapped by the beginning of the continuation of recording. Why does this happen?
A. This is normal. It reduces distortion at the pause and resume points.

· ·

Q. Can the video recorder indefinitely remain in the Record-Pause mode?
A. No. The video recorder 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 display panel. Is there a problem?
A. No. This is a normal condition for a timer recording in progress.

· ·

Q. Can I program 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 program or tape you're viewing can be heard.

· ·

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

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 applied to the recorder.	● The mains power cord is disconnected.	Connect the mains power cord.
2. The clock is functioning properly, but the recorder cannot be powered.	● "⏁" is displayed on the display panel with Auto Timer set to "OFF".	Press the **TIMER** button to turn the "⏁" indicator off.

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 stops during rewind or fast-forward.	● "M" is displayed on the display panel.	Press **C.MEMORY** to deactivate the Counter Memory function and turn the "M" indicator off.
3. 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.	● If you're using the RF OUT connection . . . . . . the TV receiver's channel selector is not set to the VIDEO channel. . . . the recorder's VIDEO channel has not been correctly set. ● If you're using the AV connection, the TV receiver is not set to the AV mode.	If you are using the RF OUT connection . . . . . . set the TV receiver to the VIDEO channel. (☞ pg. 5) . . . Perform "Video Channel Set" (☞ pg. 5) If you are using the AV connection, set the TV to its AV mode.
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. 9)
4. Noise appears during slow-motion playback.	● The automatic tracking mode is engaged.	Try manual tracking. (☞ pg. 9)
5. Noise appears during still playback.		Press **TV PROG +** or **–** a few times to remove the noise bars from the screen.
6. 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.	● "AU" 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 "AU".

| 4. 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 "AU". |

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 **TIMER** and confirm that "⏱" is displayed on the display panel.
2. On-screen timer programming is not possible.	● Timer recording is in progress.	Timer programming can't be performed while a timer recording is in progress. Wait until it finishes.
3. "⏱" and "🔲" on the display panel won't stop blinking.	● The timer is engaged but there's no cassette loaded.	Load a cassette with the Record Safety tab intact, or cover the hole using adhesive tape.
4. The cassette is automatically ejected, and "⏱" 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.
5. "⏱" blinks for 10 seconds and the Timer mode is disengaged.	● **TIMER** 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 **TIMER** again.
6. The cassette is automatically ejected, the power shuts off and "⏱" and "🔲" won't stop blinking.	● The end of the tape was reached during timer recording.	The programme may not have been recorded in its entirety. Next time make sure you have enough time on the tape to record the entire programme.

OTHER PROBLEMS

| SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
1. Whistling or howling is heard from the TV during camcorder recording.	● 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.
2. 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. 22).
3. The channel cannot be changed.	● Recording is in progress.	Press **PAUSE** to pause the recording, change channels, then press **PLAY** to resume recording.
4. 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.
5. No channels are stored in the recorder's memory.	● The TV aerial cable was not connected to the recorder when Auto Set Up was performed.	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. 4).

FRONT VIEW
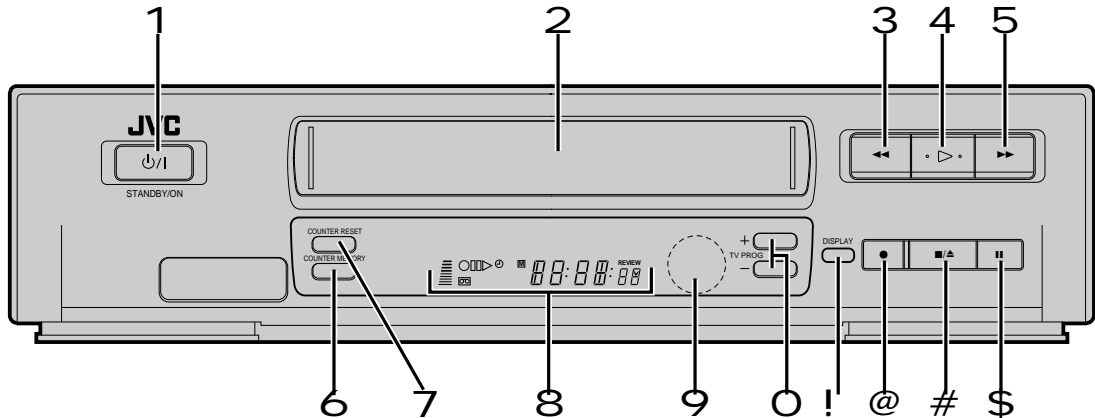
1 STANDBY/ON ⏻/❙ Button ☞ pg. 4
2 Cassette Loading Slot
3 Rewind [REW] Button ☞ pg. 7
4 PLAY Button ☞ pg. 7
5 Fast Forward [FF] Button ☞ pg. 7
6 COUNTER MEMORY Button ☞ pg. 10
7 COUNTER RESET Button ☞ pg. 15

8 Display Panel ☞ pg. 29
9 Infrared Beam Receiving Window
O TV PROG +/– Buttons ☞ pg. 11
! DISPLAY Button ☞ pg. 15
@ RECORD Button ☞ pg. 11
# STOP/EJECT Button ☞ pg. 7
$ PAUSE Button ☞ pg. 8

REAR VIEW
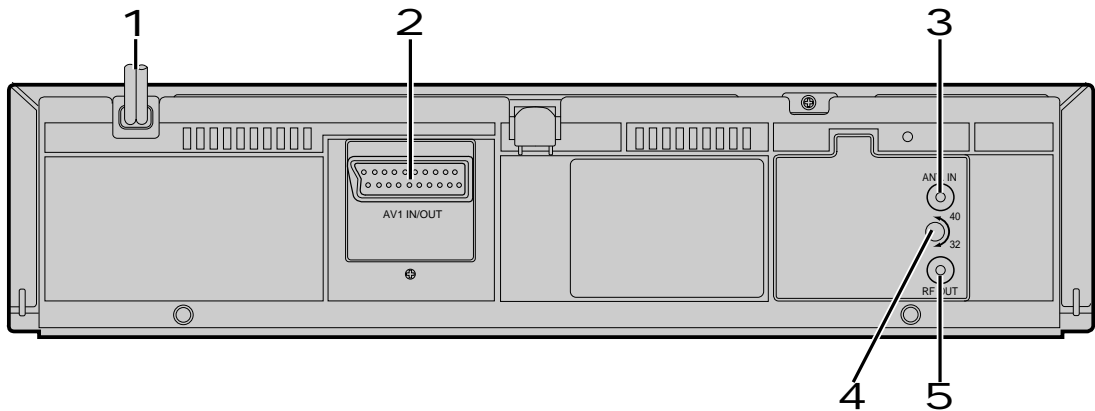
1 Mains Power Cord ☞ pg. 3
2 AV1 IN/OUT Connector ☞ pg. 3, 19
3 ANT. IN Connector ☞ pg. 3

4 RF Output Channel Adjustment Screw ☞ pg. 5
5 RF OUT Connector ☞ pg. 3

DISPLAY PANEL
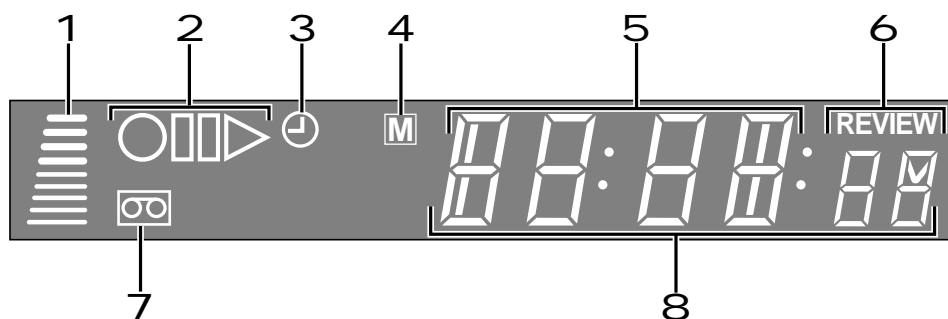
1 B.E.S.T. Picture System Display ☞ pg. 12
2 Symbolic Mode Indicators

PLAY: FF/REW VARIABLE SHUTTLE SEARCH:	▷	STILL: SLOW:	▯▯▷
		RECORD:	○
		RECORD PAUSE:	○▯▯

3 "Timer" Indicator ☞ pg. 17

4 Counter Memory Indicator ☞ pg. 10
5 Channel*/Mode Display ☞ pg. 11
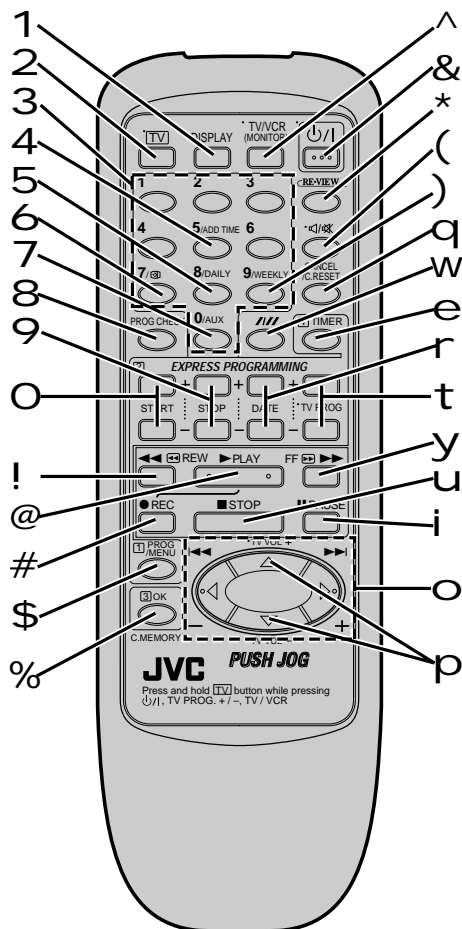　*Channel position 1 will be displayed as "CH 1".
　Clock Display ☞ pg. 6
6 Instant REVIEW Indicator ☞ pg. 10
**7** "Cassette Loaded" Mark
8 Counter Display ☞ pg. 15

REMOTE CONTROL

1 DISPLAY Button ☞ pg. 15
2 TV Button (See below)
3 NUMBER Keys ☞ pg. 11
4 ADD TIME Button (No function with this recorder.)
5 DAILY Button ☞ pg. 17
6 ⊠ (PDC/VPS) Button (No function with this recorder.)
7 AUX Button ☞ pg. 19
8 PROG CHECK Button ☞ pg. 18
9 STOP +/– Button ☞ pg. 16
O START +/– Button ☞ pg. 16
! Rewind [REW] Button ☞ pg. 7
@ Play Button ☞ pg. 7
# Record Button ☞ pg. 11
$ PROG/MENU Button ☞ pg. 6, 16
% OK Button ☞ pg. 6
   C. MEMORY Button ☞ pg. 10
^ TV/VCR Button (See below)
& STANDBY/ON ⏻/I Button ☞ pg. 4
* REVIEW Button ☞ pg. 10
(◁/◁× (TV Mute) Button (See below)
) WEEKLY Button ☞ pg. 17
q CANCEL Button ☞ pg. 16
   C. RESET Button ☞ pg. 15
w ◢/◢ Button (See below)
e TIMER Button ☞ pg. 17
r DATE +/– Button ☞ pg. 16
t TV PROG +/– Button ☞ pg. 11
y Fast Forward [FF] Button ☞ pg. 7
u Stop Button ☞ pg. 7
i Pause Button ☞ pg. 8
o PUSH JOG △▽ ◁▷ Button ☞ pg. 6
   PUSH JOG ◁▷ Button ☞ pg. 8, 10
p TV VOL △▽ Button (See below)

Installing Batteries
1 Open the battery compartment cover.
2 Insert 2 "R6"-size batteries (provided) in the correct directions.
3 Replace the cover.
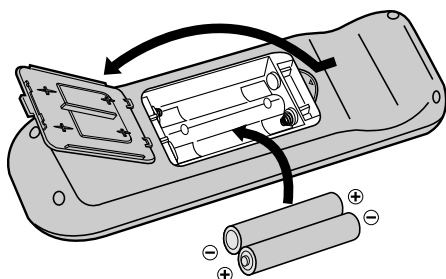
How To Use
The remote control can operate most of your video recorder's functions, as well as basic functions of JVC TV sets. (See below)
● Point the remote control toward the sensor window.
● The maximum operating distance of the remote control is about 8 m.

Operating JVC TVs
To operate your TV, while holding down **TV**, press the corresponding button: **STANDBY/ON ⏻/I**, **TV/VCR**, **TV PROG +/–**, ◁/◁× (TV Mute), ◢/◢ (to select either Main or Sub programmes on stereo TVs), **TV VOL +/–**.

NOTES:
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∿, 50/60 Hz
Power consumption	: 18 W
Temperature	
Operating	: 5°C to 40°C
Storage	: –20°C to 60°C
Operating position	: Horizontal only
Dimensions (WxHxD)	: 400 x 94 x 273 mm
Weight	: 3.3 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 helical 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 connectors x 1 (IN/OUT x 1)

TUNER/TIMER

TV channel storage capacity	: 99 positions (+AUX position "AU")
Tuning system	: Frequency synthesized tuner
Channel coverage	: VHF 47 – 89/104 – 300/ 302 – 470MHz UHF 470 – 862MHz
Aerial output	: UHF channel 36 (Adjustable 32 – 40)
Memory backup time	: Approx. 3 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.

JVC

VICTOR COMPANY OF JAPAN, LIMITED