

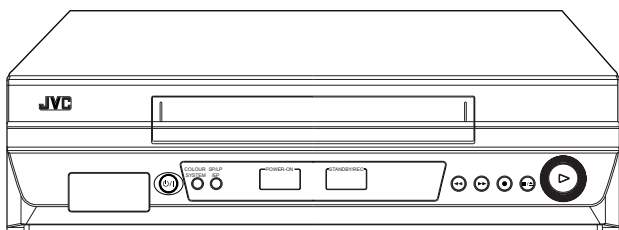
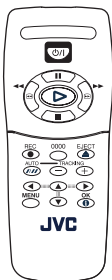
JVC



ENGLISH

VIDEO CASSETTE PLAYER WITH LINE RECORDING

HR-P110AG HR-P111AG HR-P110AS



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Thank you for purchasing this JVC video cassette player. To ensure optimum performance of this unit, please read this instruction manual thoroughly.

Only cassettes marked "VHS" can be used with this video cassette player.



Features

- 3 system (PAL/MESECAM/NTSC)
- NTSC playback (on PAL television)
- RF output G/K switchable
- Digital auto tracking
- HQ (High Quality)
- Auto playback function
- Repeat playback
- Shuttle search
- Still and slow motion
- Line recording
- B.E.S.T. (Biconditional Equalized Signal Tracking) picture system

Automatic features

Auto power on

The video cassette player is automatically turned on when the tape is inserted.

Auto rewind

The video tape is automatically rewound when the end of the tape is reached during the play, recording or shuttle search forward mode.

Auto playback

If the video cassette's safety tab has been removed, playback will begin automatically when the tape is inserted into the video cassette player.

Power off eject

Even when the video cassette player's power is off, pressing the eject button will turn the power on and eject the tape. Once ejected, the power will be turned off again automatically.

Auto head cleaning

When a tape is loaded or ejected the VCP video head is cleaned automatically.

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.

The \odot/I button does not completely shut off mains power from the unit, but switches operating current on and off.

This unit is produced to comply with Standard IEC 60065.

The socket outlet shall be installed near the equipment and easily accessible, or the mains plug or an appliance coupler shall remain readily operable.

When the equipment is installed in a cabinet or a shelf, make sure that it has sufficient space on all sides to allow for ventilation (10 cm or more on both side, on top and at the rear.)

When discarding batteries, environmental problems must be considered and the local rules or laws governing the disposal of these batteries must be followed strictly.

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

1 DO NOT place the player ...

...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 player's ventilation openings or holes.

(If the ventilation openings or holes are blocked by a newspaper or cloth, etc., the heat may not be able to get out.)

3 DO NOT place heavy objects on the player or remote control.

4 DO NOT place anything which might spill on top of the player or remote control.

If water or liquid is allowed to enter this equipment, fire or electric shock may be caused.

5 DO NOT expose the apparatus to dripping or splashing.

6 DO NOT use this equipment in a bathroom or places with water. Also **DO NOT** place any containers filled with water or liquids (such as cosmetics or medicines, flower vases, potted plants, cups, etc.) on top of this unit.

7 DO NOT place any naked flame sources, such as lighted candles, on the apparatus.

8 AVOID violent shocks to the player during transport.

Beware of moisture condensation

Moisture in the air will condense on the VCP when you move it from a cold place to a warm place, or under extremely humid conditions —just as water droplets form on 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 VCP's power turned on for a few hours to let the moisture dry.

When transporting

■ Be sure to remove cassette from VCP before packing.

■ Avoid violent shocks to the VCP during packing and transport.

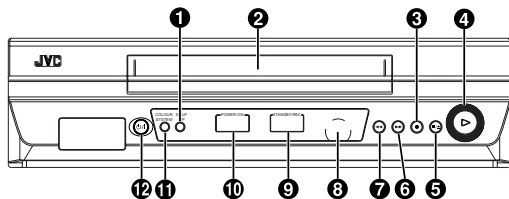
CAUTION

(For HR-P110AS only)

Use the conversion plug depending on the type of your AC wall outlet.

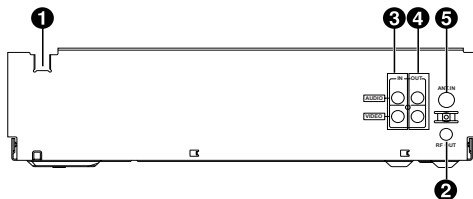
Controls

Front Panel



- 1 SP/LP/EP button**
To select the recording tape speed.
- 2 Cassette loading slot**
Load the video cassette here.
- 3 ● Record button**
To start recording.
- 4 ▷ Play button**
To start playback.
- 5 ■/▲ Stop/Eject button**
To stop playback and to eject the video tape.
- 6 ►► Fast forward button**
To fast forward the video tape and to start forward shuttle search playback mode.
- 7 ◀◀ Rewind button**
To rewind the video tape and to start reverse shuttle search playback mode.
- 8 Remote sensor window**
For remote control operation.
- 9 STANDBY/REC indicator**
 - Lights when the power turns off (Standby mode) or during recording mode.
 - Blinks during recording pause mode.
- 10 POWER-ON indicator**
Lights when the power turns on.
- 11 COLOUR SYSTEM button**
To set the colour system for recording and playback (see pg. 10).
- 12 ⏻ button**
To turn the power on and off (standby mode).

Rear Panel

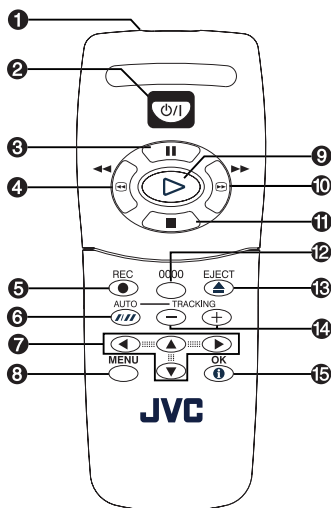


- 1 AC power cord**
- 2 RF OUT terminal**
- 3 AUDIO/VIDEO IN terminals**
- 4 AUDIO/VIDEO OUT terminals**
- 5 ANT. IN terminal**

Wireless remote control

When using the remote control for operation of the video cassette player, make sure that it is pointed at the remote sensor window.

You can also use the player's remote control to operate a JVC television.




- 1 **Transmitting window**
- 2 **⏻/⏿ button**
To turn the power on and off (standby).
- 3 **⏸ button**
To freeze the picture during playback.
Also to engage the recording pause mode.
- 4 **⏮ button**
To rewind the video tape. Also to start reverse shuttle search playback.
- 5 **● REC button**
Press the ● REC to start recording.
- 6 **AUTO button**
To enable/disable auto tracking mode.
SP/LP/EP(///) button
• To select the recording tape speed.
• To select JVC TV's sounds.

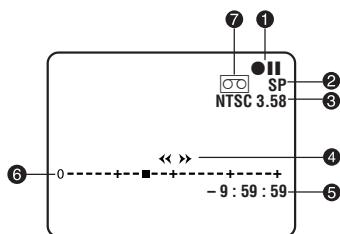
- 7 **▲/▼ buttons**
To select the mode.
- 8 **◀/▶ buttons**
To set the mode.
- 9 **MENU button**
To access Mode Set screen.
- 10 **▷ button**
To start playback.
- 11 **⏭ button**
To fast forward the video tape. Also to start forward shuttle search playback.
- 12 **■ button**
To stop playback.
- 13 **0000 button**
To reset the tape counter.
- 14 **▲ EJECT button**
Press the ▲ to eject the cassette. You also can eject the cassette when the player is turned off.
- 15 **TRACKING +/- buttons**
To adjust tracking during playback.
- 16 **OK/ℹ button**
 - To fix the setting.
 - To display the information on the television's display.

NOTES:

- Point the remote control toward the remote sensor window.
- The maximum operating distance of the remote control is about 8 m.
- When inserting the batteries, be sure to insert in the correct directions as indicated under the battery cover.
- If the remote control doesn't work properly, remove its batteries, wait a short time, replace the batteries and then try again.

On screen display

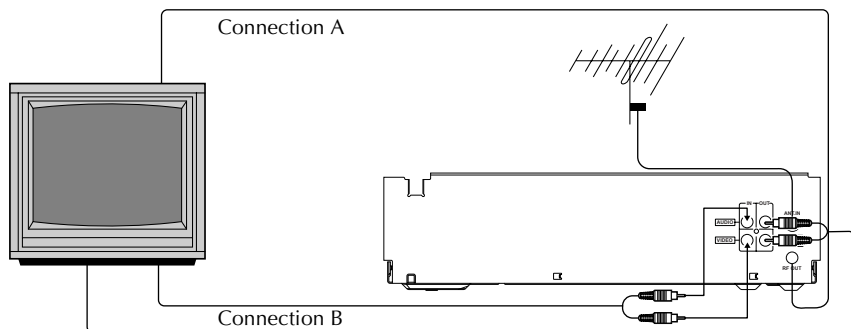
When "O.S.D" is set to "ON" (See "Mode set"  pg. 9), various operational indicators appear on the TV screen.



- ❶ Operation mode indicators
- ❷ Tape speed SP/LP/EP
- ❸ Colour system indicator
- ❹ Tape direction
- ❺ Counter display
- ❻ Tape position indicator
- ❼ Cassette loaded mark

Connections

Make sure that the power to the video cassette player and TV is off before making the following connections.



NOTE:

If you put a TV set directly on this Video cassette player or install it too close to a TV set, noise may occur. If this noise occurs, separate the Video cassette player and the TV set.

Connection A (basic)

In order to use the video cassette player it must be connected between the antenna and the TV.

- 1** Connect your TV antenna cable to the video cassette player's ANT. IN terminal.
- 2** Connect one end of the provided RF antenna cable to the video cassette player's RF. OUT terminal and the other end to the TV's antenna terminal.
- 3** Connect the power cord to your household AC outlet.

Connection B

For connection of a TV that has VIDEO/AUDIO IN/OUT terminals. This connection is necessary to record TV programmes. Use RCA type pin connection cords (available from audio/video stores) for connection. This connection is in addition to connection A.

- 1** Follow steps 1 and 2 of "Connection A".
- 2** Connect the TV's VIDEO OUT and AUDIO OUT terminals to the video cassette player's VIDEO IN and AUDIO IN terminals.
- 3** Connect the TV's VIDEO IN and AUDIO IN terminals to the VCP's VIDEO OUT and AUDIO OUT terminals.
- 4** Connect the power cord to your household AC outlet.

Setting the video channel

To watch videos on your TV, it must be set to the same UHF channel as the video cassette player. This channel is used as the video channel.

This video cassette player has been preset to UHF channel 36.



NOTE:

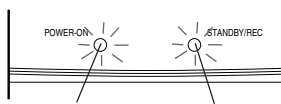
When you have connected the VIDEO/AUDIO OUT terminals of this video cassette player to your TV's video/audio in terminals (connection B of the "Connections" section), setting the video channel is not necessary. In this case simply set the TV's TV/VCR switch to VCR.

IMPORTANT:

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

1 Access video channel set mode.

Hold down  /  on the video cassette player until both of the POWER-ON and STANDBY/REC indicators light up.



POWER ON
indicator

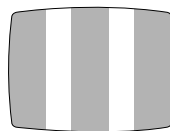
STANDBY/REC
indicator

2 Set video channels.

Set your TV to UHF channel 36.

- If the two vertical white bars appear clearly on the screen as shown in the illustration on the right, go to step 3.
- If the two vertical white bars do not appear clearly, press **TRACKING +** or **-** to set the video cassette player to a vacant channel between 32 and 40 which is not occupied by any local station in your area.
- The mode indicators tell channel position. The indicators blink different speed by the channel position as shown on the right.

TEST SIGNAL:




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

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

3 Press OK/ .

- STANDBY/REC indicator goes off.

4 Set TV system.

- Set "RF OUT" to "B/G" or "D/K". (See "Mode set" ( pg. 9))

CH	POWER-ON (green)	STANDBY/REC (red)	Blinking Speed
40	-	blink	fast
39	-	blink	↑
38	-	blink	
37	-	blink	slow
36	light	light	-
35	blink	-	slow
34	blink	-	
33	blink	-	↓
32	blink	-	fast

Mode set

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

1 Access the Mode Set screen.

Press **MENU**.

2 Select the mode.

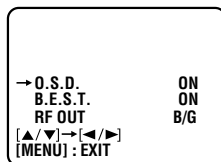
Press **▲/▼** to move the pointer to the item you want to change.

3 Select the mode setting.

Press **◀/▶**.

4 Return to the normal screen.

Press **MENU**.



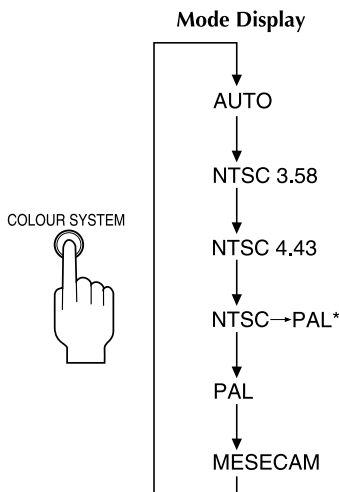
*The default setting is **bold** in the table below.

<p>■ O.S.D. ON OFF</p>	<p>When the function is set to "ON", various operational indicators appear on the TV screen.</p> <p>NOTE: <i>When you use this video cassette player as the source player for editing, be sure to set "O.S.D." to "OFF" before starting.</i></p>
<p>■ B.E.S.T. ON OFF</p>	<p>You can set the B.E.S.T. (Biconditional Equalized Signal Tracking) system to "ON" or "OFF". (See "B.E.S.T. picture system" (📖 pg. 13))</p>
<p>■ RF OUT B/G: New Zealand, Kuwait, U.A.E., Indonesia, Singapore, Thailand, Malaysia, Iran, Saudi Arabia. D/K: Egypt, Morocco, Lebanon, Iraq, China, Mongolia, Russia.</p>	<p>Set appropriate TV system that matches the system of TV being used.</p>

Setting Of The Colour System Select Buttons

Use the **COLOUR SYSTEM** button on the front panel to select the colour system. Pressing the **COLOUR SYSTEM** displays the current setting on the screen. While the current setting is displayed, press **COLOUR SYSTEM** again to change the mode as illustrated below. The On-Screen display will show which mode is selected.

- If the mode is changed between different types of colour signals, the picture might be distorted at the switching point.



* Appears during playback only.

Mode	Description
AUTO	Usually set to this mode. This mode automatically detects PAL, NTSC 3.58, MESECAM and adjusts to the colour system being recorded or played back. When it does not perform properly, set the colour system manually.
MANUAL	For recording, there is a choice of 4 selectable modes; NTSC 3.58/NTSC 4.43/PAL/MESECAM. Select the mode that matches the colour signal being received. For playback, there is an additional mode which allows NTSC tapes to be played back and viewed on PAL TVs. To record an NTSC 4.43 signal, perform the following steps, <ol style="list-style-type: none"> 1 Press and hold II, and press ● to enter Recording Pause Mode. 2 Press COLOUR SYSTEM repeatedly and select NTSC 4.43 colour mode. 3 Press ▷ to start recording.

NOTES:

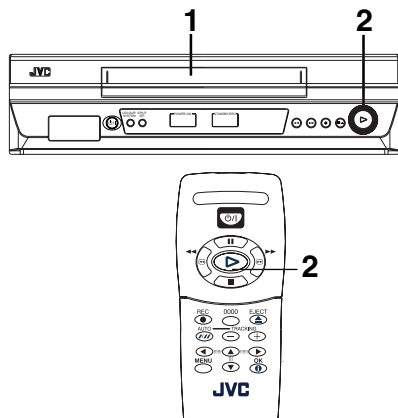
- In the **AUTO** mode, **NTSC** signals will be automatically recorded as **NTSC 3.58**.
- In the **AUTO** mode, **NTSC** tapes will be played back as **NTSC 3.58**.
- **SECAM** signals will always be recorded as **MESECAM**. Select the **AUTO** or the **MESECAM** mode when recording **SECAM** signals.
- When playing back a **SECAM** tape, select the **AUTO** or **MESECAM** mode. The playback picture will always be monochrome.
- In the **NTSC 4.43** mode, with some TVs, on-screen displays (Program screen etc.) may roll up or down and there may be a loss of colour. When this happens, select the **AUTO** mode.

Playback

NTSC, PAL and MESECAM video tapes can be played back on this video cassette player. See "Setting Of The Colour System Select Buttons" on page 10 for details.

Before proceeding:

- Turn on the power of the TV and video cassette player.
- Make sure that the TV is set to the video channel or that the TV's TV/VIDEO switch is set to VIDEO (See "Setting the video channel" on page 8 for details).



1 Load a pre-recorded cassette.

If the safety tab on the cassette is removed, playback will start automatically.

2 Press \triangleright to start playback.

"B.E.S.T. PICTURE SYSTEM" appears on the screen.(when B.E.S.T. is set to "ON" . (See "Mode set" pg. 9)

- Press $\blacksquare/\blacktriangle$ or the remote control's $\blacksquare/\blacktriangle$ to stop playback. Then press $\blacksquare/\blacktriangle$ to remove the cassette.

To fast forward or rewind the tape:

- From the stop mode, press $\blacktriangleright\blacktriangleright$ or $\blacktriangleleft\blacktriangleleft$.

Slow motion playback

Slow motion playback is 1/6 of the normal playback speed. The sound will be cut during slow motion playback.

During playback:

1 Press \blacksquare for 2 seconds.

- Press \triangleright to return to the normal playback speed.

NOTES:

- If the picture shakes during the slow mode, use TRACKING +/- to correct the picture.
- After approx. 5 minutes, the slow mode will disengage to protect the video tape.

Still picture and frame advance

Use this feature to freeze the playback picture and to advance one frame at a time. The sound will be cut during this mode.

During playback:

1 Press \blacksquare .

The picture will be frozen.

2 Press \blacksquare repeatedly to advance frames.

Each time the button is pressed the still picture will advance one frame.

- Press \triangleright to resume normal playback.

NOTES:

- If the picture shakes during the still mode, use TRACKING +/- to correct the picture.
- After the picture has been frozen for approx. 5 minutes, the still mode will disengage to protect the video tape.

Shuttle search playback

Use this feature during playback to visually locate any point on a recorded cassette. The sound will be cut during shuttle search operation.

During playback:

1 Press **▶▶** or **◀◀** to engage shuttle search forward or reverse.

■ Press **▶▶** to **◀◀** again to perform high speed.

NOTE:

Each time you press **▶▶** or **◀◀**, the search speed changes between low-speed and high-speed.

Tracking adjustment

Automatic tracking is adjusted each time a cassette is inserted in the video cassette player, you may wish to adjust tracking manually during playback.

Manual tracking:

1 Press the remote control's **AUTO**.

2 Press the remote control's **TRACKING +** or **-** to adjust tracking.

■ Press **AUTO** to return to automatic tracking.

Counter reset

1 Press **0000** to reset the counter.

Repeat playback

Use this feature to repeat playback of a cassette 100 times.

During playback:

1 Press **▷** for more than 5 seconds.

The Play indicator will blink slowly and playback of the cassette will repeat 100 times automatically.

2 Press **■** to stop repeat playback.

Tape playback will be stopped and the repeat playback mode will be cancelled.

NOTE:

Pressing **▷**, **◀◀**, **▶▶** or **||** also stops repeat playback.

Rewind playback or power off

When the tape has finished rewinding, the Video cassette player will playback or turn itself off.

During stop:

- a- For Automatic Start Of Playback
Press **◀◀**, then press **▷** within 2 seconds.
- b- For Automatic Power Off
Press **◀◀**, then press **⏻** within 2 seconds.

ATTENTION:

In the search, still, slow-motion or frame advance mode,

- the picture will be distorted.
- the noise bars will appear.
- there will be loss of colour.
- the picture may not appear.

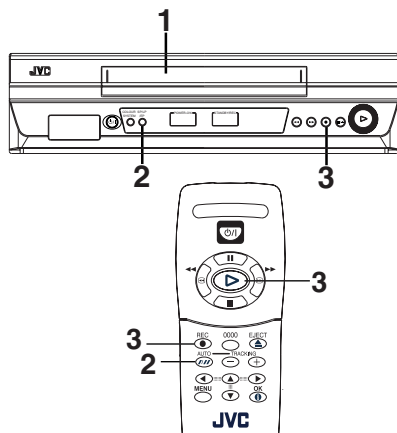
However, this is not malfunction.

Recording

Use the following procedure to record TV programmes on a blank video tape.

Before proceeding:

- To record TV programmes, the video cassette player must be connected to the TV as shown in connection B of the "Connections" on page 6 section.
- Turn on the power of the TV and video cassette player.
- Make sure that the video cassette's safety tab is intact. If it has been removed, cover the hole with adhesive tape.



- 1** Load a blank video tape.
- 2** Press SP/LP/EP (//) to set the recording speed.
- 3** Press ● to start recording. (On the remote control unit press ● and ▷ at the same time.)
The recording indicator will light during recording.

B.E.S.T. takes place at the beginning of each first SP and first LP (or EP) recording after inserting the cassette.

- Press ■/▲ on the video cassette player on the remote control press ■ to stop recording.

To stop recording temporarily:

- Press ■ .

The recording indicator will blink.

Press ▷ to resume recording.

NOTES:

- To engage recording standby, press ● and then press ■ . The STANDBY/REC indicator will blink during recording standby. Press ▷ again to start recording.
- If ● does not work, check to see if the cassette safety tab has been removed.
- The player automatically stops when record-standby continues for more than 5 minutes.
- The video tape will be rewound automatically when the end of the tape is reached.

B.E.S.T. picture system

The B.E.S.T. (Biconditional Equalized 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

The video cassette player assesses the quality of the tape once you initiate recording.

- The player 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.
- 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 ● and ▷ on the remote are pressed, or ● on the player is pressed.

To make sure you record the desired scene or programme in its entirety, first perform the following steps:

- 1 Press and hold II and ● to engage the Record Pause mode.
 - The player then automatically check the condition of the tape and, after approximately 7 seconds, reenters 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".

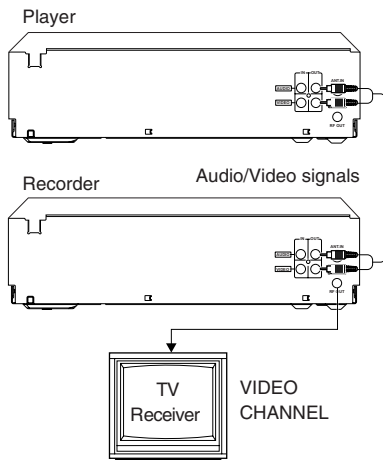
Playback

The video cassette player 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.

- The player adjusts the playback picture quality based on the quality of the tape in use.
- B.E.S.T. is active during Auto Tracking.

NOTE:

When watching a rental tape, or one recorded on another video player, set B.E.S.T. to on or off to your preference.

Editing**Editing To/From Another Recorder**

- 1 Connect the player's AUDIO and VIDEO OUT connectors to the recorder's AUDIO and VIDEO IN connectors.

- 2 Put the player in the Play mode.

- 3 Put the recorder in the Record mode.

NOTES:

- NTSC tapes being played back in the NTSC PLAYBACK ON PAL TV mode cannot be dubbed to another recorder.
- When you dub an NTSC tape using your recorder as the playback deck, select NTSC 3.58 (or 4.43) with the Colour System Output switch.

Important:

- To edit, both the player and the recorder must be of the same colour system. Set "NTSC" to appropriate mode. (See "Mode set" pg. 9)

Troubleshooting

Problem	Check point
No power	Is the power cord plugged in? Is the power turned on?
Tape cannot be ejected	Was the video cassette player's ■/▲ button or the ▲ EJECT button on the remote control pressed?
No picture	Is the TV set to the video channel? Is a cassette loaded? Are the connections correct?
No colour	Set the Colour System Output switch according to the recorded tape system.
Shuttle search does not function	Is the video cassette player in the playback mode?
Disturbances in playback picture	Is tracking adjusted properly? Is the TV adjusted properly? Install this VCP a little way apart from the TV set.
Remote control does not function	The batteries are weak. Replace the batteries.
Auto playback does not function	The video cassette's recording safety tab has not been removed.
Recording does not function	Are the connections correct? Was the Record button pressed? The video cassette's recording safety tab is removed.
The video cassette player does not function properly	Microcomputer malfunction. Disconnect the power plug from the AC outlet and then re-insert it. The microcomputer will be reset to its initial mode.

About Head cleaning

- If the picture playback becomes blurred, it does not mean that the recorded program has been erased.
- Dirt accumulated on the video heads after long periods of use causes such troubles. In this case, head cleaning requiring highly technical care is necessary.
- For head cleaning, consult the nearest JVC dealer.

Specifications

Format.....	VHS Standard
Video recording system.....	Rotary, slant azimuth helical scan system
Rotary heads.....	2 video heads
RF output.....	System B/G, D/K type modulation UHF ch 32 – 40 adjustable (preset ch 36)
Recording (line input).....	PAL, SECAM (MESECAM tape) NTSC 3.58, NTSC 4.43
Playback (line output).....	PAL, SECAM (MESECAM tape) NTSC 3.58 NTSC 4.43 Simulated PAL (NTSC tape)

Video

Line input level.....	0.5 – 2.0 Vp-p/75 ohms, unbalanced
Line output level.....	1.0 Vp-p/75 ohms, unbalanced
S/N ratio.....	More than 45 dB
Horizontal resolution.....	More than 250 lines (PAL/MESECAM) More than 220 lines (NTSC)

Audio

Line input level.....	-8 dBs/50 k ohms, unbalanced
Line output level.....	-8 dBs/1 k ohm, unbalanced
Frequency response.....	70 Hz to 10,000 Hz (Normal audio)
Power requirements	
Rating.....	AC 110 V – 240 V, 50 Hz /60 Hz
Operating.....	AC 90 V – 260 V, 50 Hz /60 Hz
Power consumption.....	12 W
Operation temperature.....	5°C to 40°C
Dimensions.....	360 mm (W)× 98 mm (H)× 255 mm (D)
Weight.....	2.9 kg

Standard accessories

Remote control unit.....	1
Batteries for remote control.....	2
RF antenna cable.....	1
Conversion plug*.....	1

* Not provided in certain areas.

- Design and specifications subject to change without notice.