

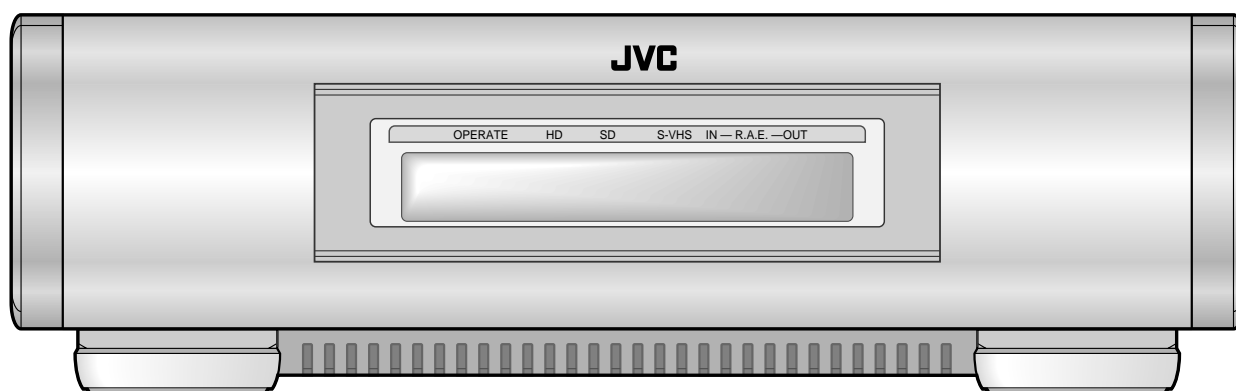
INSTRUCTIONS

JVC

SR-W5U

Hi-Vision VIDEO CASSETTE RECORDER

W VHS HD/SD **S VHS** *Hi-Fi*



For Customer Use:

Enter below the Serial No. which is located on the rear of the cabinet. Retain this information for future reference.

Model No. **SR-W5U** _____

Serial No. _____

SAFETY PRECAUTIONS



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING:
TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

This video cassette recorder should be used with AC 120V~, 60 Hz only.

CAUTION:

To prevent electric shocks and fire hazards, do NOT use any other power source.

When you are not using the video recorder for a long period of time, it is recommended that you disconnect the power cord from the AC outlet.

NOTE

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

CAUTION

CHANGES OR MODIFICATIONS NOT APPROVED BY JVC COULD VOID USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

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

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1 PRECAUTIONS

Features

- W-VHS format HD mode offers high-definition recording and playback of high-vision signals on a base band.
- W-VHS format SD mode also available to ensure high-quality picture for the existing TV format sources.
- W-VHS metal compatible high-power Sendust heads
- The existing VHS/S-VHS video can be recorded and played back with a superb quality.
- Built-in RS-232C enables you to externally control this unit from your personal computer.

With this video cassette recorder, you can enjoy the HD and SD modes of W-VHS video. Be sure to use cassette tapes marked with **WVHS**.

Since the VHS mode and S-VHS mode are also available, use video cassettes marked with **SVHS** or **VHS** when you want to enjoy these modes.

What is HD mode? (HD denotes High Definition)

In HD mode, HDTV signals are recorded using multiple tracks, HDTV signal was originally developed by NHK of Japan, and it stands for High-Definition Television. HDTV is a next generation broadcasting system which enables high-definition picture quality in comparison to conventional NTSC system.

What is SD mode? (SD denotes Standard Definition)

In SD mode standard TV signals are recorded on a single track with high picture quality and long recording times.

1 PRECAUTIONS

VCR

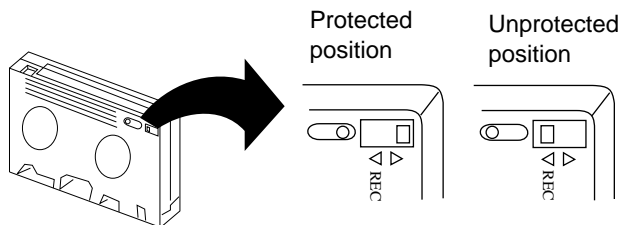
- Avoid using the recorder in places subject to the following conditions:
 - extreme heat, cold, or humidity,
 - dust,
 - vibrations, and
 - poor ventilation.
- Be careful of moisture condensation.
Do not use the recorder immediately after moving it from a cold place to a warm place. The water vapor in warm air will condense on the still-cold video head drum and tape guides and may cause damage to the tape and the recorder.
- Handle the recorder carefully.
 - Do not block the ventilation openings.
 - Do not place anything heavy on the recorder.
 - Do not place anything which might spill on the top cover of the recorder.
 - Use in horizontal (flat) position only.
- During transportation,
 - Avoid violent shocks to the recorder during packing and transportation.
 - Before packing, be sure to remove the cassette from the recorder.

Video Cassettes

- Use video cassettes marked with **WVHS** / **SVHS** / **VHS** with this unit. C-cassettes can be used with a C-cassette adapter (SA-CP11U) connected.
- Video cassettes marked with **WVHS** are exclusively for use with a video cassette recorder marked with **WVHS**. Loading such cassettes into existing S-VHS or VHS cassette recorders may cause a damage to the machine.
- Any cassette is provided with a safety tab for protecting it from accidental erasure. The cassette with its safety tab set at a protective position automatically starts playback when loaded into a machine.

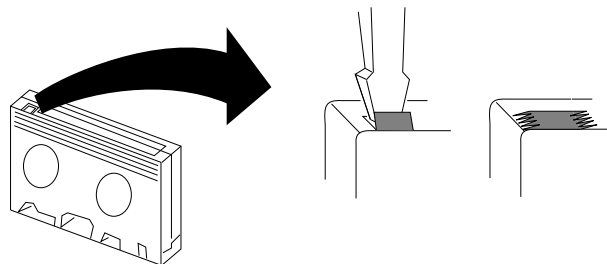
W-VHS cassettes

Slidable safety tab.



S-VHS, VHS cassettes

- To prevent accidental erasure, remove the cassette's safety tab.
- To record on a cassette whose safety tab has been removed, cover the hole with adhesive tape.



- Reverse side of a cassette is not usable.
- Before putting the cassette into storage, make sure that the tape is uniformly wound up to its beginning.

1 PRECAUTIONS

Head Cleaning

Perform head cleaning even 20 hours to enjoy clear pictures.

Video heads get soiled with repeated recording and playback, resulting in rough, uneven picture. Perform cleaning of the tape transport mechanism every 20 hours with the provided head cleaning tape dedicated to W-VHS.

How to use the cleaning tape

1. Load the W-VHS dedicated head cleaning tape.
2. Press the PLAY button and then STOP button after about 30 seconds.
3. Unload the head cleaning tape and execute a usual recording and playback procedure on a W-VHS cassette to see if audio/visual quality has been recovered.
4. If tape quality does not pick up, repeat the procedures 1. and 2. once or twice.

Cautions

- Do not rewind the cleaning tape after every use (for about 30 seconds). You have only to start at the position where the tape stopped in previous cleaning. Rewind to the beginning when the tape has been used to an end.
- 30 seconds are enough for one run of the cleaning tape. To keep running the tape for longer than 45 seconds may damage the heads.
- If sound and picture quality does not recover with the cleaning procedures repeated three times, there may be some other causes of trouble. Consult your JVC dealer.
- The W-VHS dedicated cleaning tape can be used 100 times.
- Recording or playback is not possible on the cleaning tape.
- Do not use any cleaning tape other than the W-VHS dedicated cleaning tape for this machine.
- The W-VHS dedicated cleaning tape can be used only with the video cassette recorder marked with **WVHS**.

Recording Modes and Types of the Cassettes

Recording modes available depend on the types of the cassette in use.

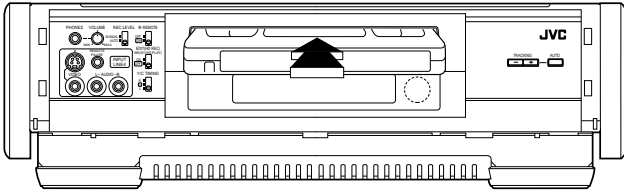
Cassettes in use	Recording modes	Recording speed	Remarks
W-VHS	HD	SP	S-VHS/VHS recording not possible.
	SD	EP	
S-VHS	S-VHS	SP/EP Selectable	HD/SD/VHS recording not possible.
VHS	VHS	SP/EP Selectable	HD/SD/S-VHS recording not possible.

Cautions

- HD recording at EP mode is not possible.
- SD recording at SP mode is not possible.

1 PRECAUTIONS

Loading and Unloading the Cassette

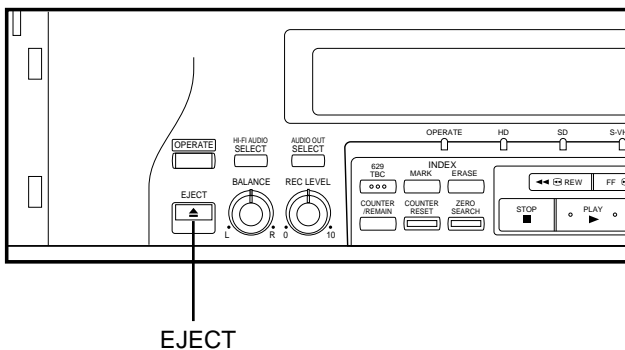


Loading

1. Insert the cassette.
 - Slowly push the center with its visible tape side up.
 - Counter display turns 0:00:00.
 - The cassette with its safety tab removed automatically starts playback.

Cautions

- Keep your hand or other foreign substances away from the loading slot. Take special care of young children to protect their hands from the door.
- When the cassette automatically comes out, insert it again after several seconds.

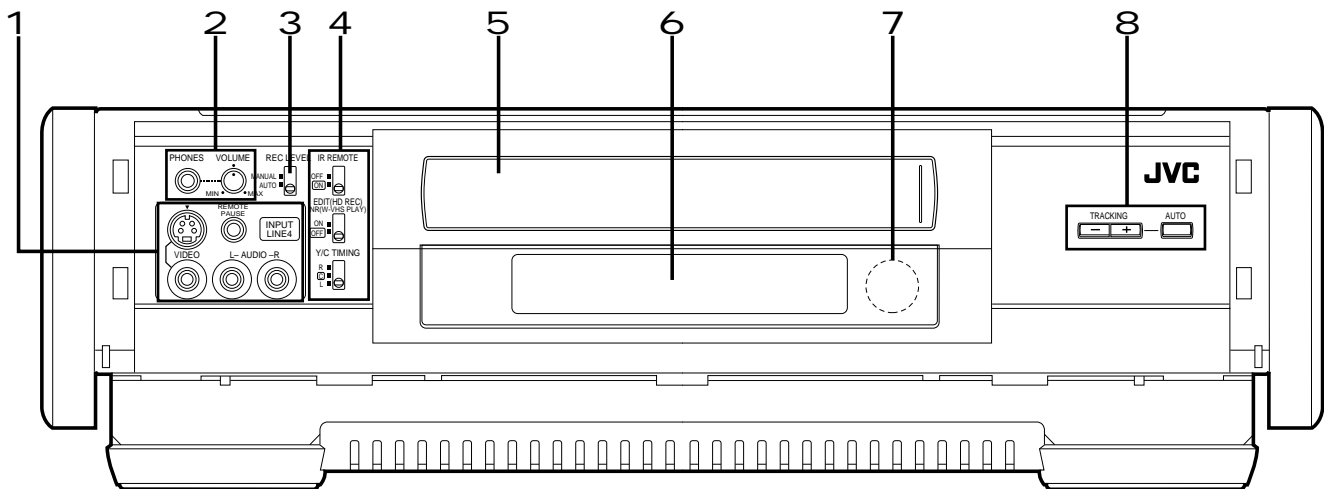


Unloading

1. Press the EJECT button.

2 CONTROLS AND CONNECTORS

Front Panel



1 [S-VIDEO/VIDEO/AUDIO INPUT 4] connectors
Connect to the S-VIDEO/VIDEO/AUDIO OUTPUT connectors on the playback deck or camcorder with the S-VIDEO/VIDEO/AUDIO cable when this machine is used as a recording unit for editing. If the sound is monaural, plug it to the AUDIO L connector. Identical audio sound will be recorded for left and right channels.

[REMOTE PAUSE] connector

When editing with a JVC camcorder, connect the mini-plug cord to this connector.

2 [PHONES] connector

Accepts the mini plug type headphone.

[VOLUME] adjust knob

Adjust the sound level of headphone connected to the PHONES connector.

3 [REC LEVEL] switch

MANUAL: Set to this position when adjusting the Hi-Fi recording level and the volume balance between left and right audio channels manually.
AUTO : Normally set to this position.

4 [IR REMOTE] switch

OFF: Set to this position when not operating with a wireless remote control unit.
ON : Normally set to this position.

[EDIT(HD REC)/NR(W-VHS PLAY)] switch

When using W-VHS tapes, adjust the picture to the desired tone.

ON : • Set to this position when noise is noticeable during playback of HD/SD recorded tapes.
• Set to this position when recording from Hi-Vision video cameras and from professional equipment.

OFF : • Normally set to this position during playback.
• Set to this position when recording from another W-VHS VCR.

[Y/C TIMING] switch

Adjusts the horizontal color phase.

R : Set to this position when the color phase shifts toward the left.

C : Normally set to this position.

L : Set to this position when the color phase shifts toward the right.

* This function is not effective while playing back a tape recorded in the HD mode.

5 Tape loading slot door

6 Video unit display window

Displays the operational state of the recorder, counter and so on.

7 Infrared beam receiving window

8 [TRACKING +/-] button

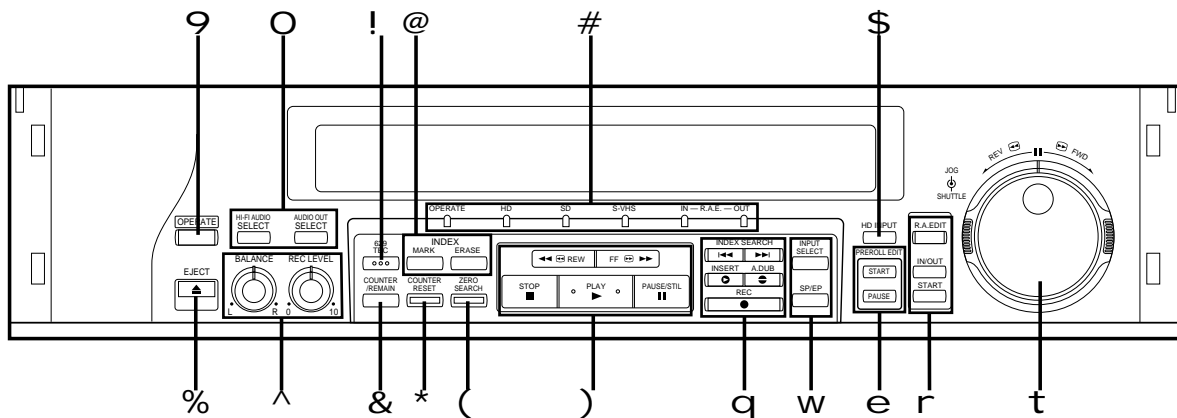
Suppresses the disturbances appearing on the picture when a tape recorded on another machine is played back (or put on slow motion playback).

[AUTO] button

Turns on and off the auto tracking facility.

2 CONTROLS AND CONNECTORS

Front Panel



9 [OPERATE] button

Turns the power on and off.

O [HI-FI AUDIO SELECT] button

Selects Hi-Fi audio sources to be played back. Every press of this button changes right and left audio → left audio → right audio one after the other.

[AUDIO OUT SELECT] button

Selects audio to be played back. Every press of this button changes Hi-Fi → Normal, one after the other.

! [629TBC] button

Corrects the distorted or blurred picture with an S-VHS or VHS tape.

@ [INDEX MARK] button

Marks the index signal.

[INDEX ERASE] button

Erases the index signal.

[OPERATE] lamp

Lights when the power is on.

[HD] lamp

Lights when HD mode is selected with a W-VHS tape in use or when an HD-recorded tape is played back.

[SD] lamp

Lights when SD mode is selected with a W-VHS tape in use or when an SD-recorded tape is played back.

[S-VHS] lamp

Lights when an S-VHS cassette is loaded and when an S-VHS-recorded tape is played back or while recording in the S-VHS mode.

[IN-R.A.E-OUT] lamps

Lights when Random Assemble Editing mode is selected and when IN/OUT points are set.

\$ [HD INPUT] button

Input mode will change to HD input mode by pressing this button when a cassette is not loaded or when a W-VHS cassette is loaded in this unit.

% [EJECT] button

Ejects a cassette.

^ [BALANCE] adjust knob

Adjusts balance between right and left audio channels.

[REC LEVEL] adjust knob

Adjusts Hi-Fi audio recording level. Carefully adjust this knob, as a recording level that is too low may lead to increased noise, and a level that is too high may cause distortion.

& [COUNTER/REMAIN] button

Alternates the display window between the tape counter display and the tape remaining time display.

* [COUNTER RESET] button

Resets the tape counter display to 0:00:00.

([ZERO SEARCH] button

Stops the tape at the position of 0:00:00 on the display counter.

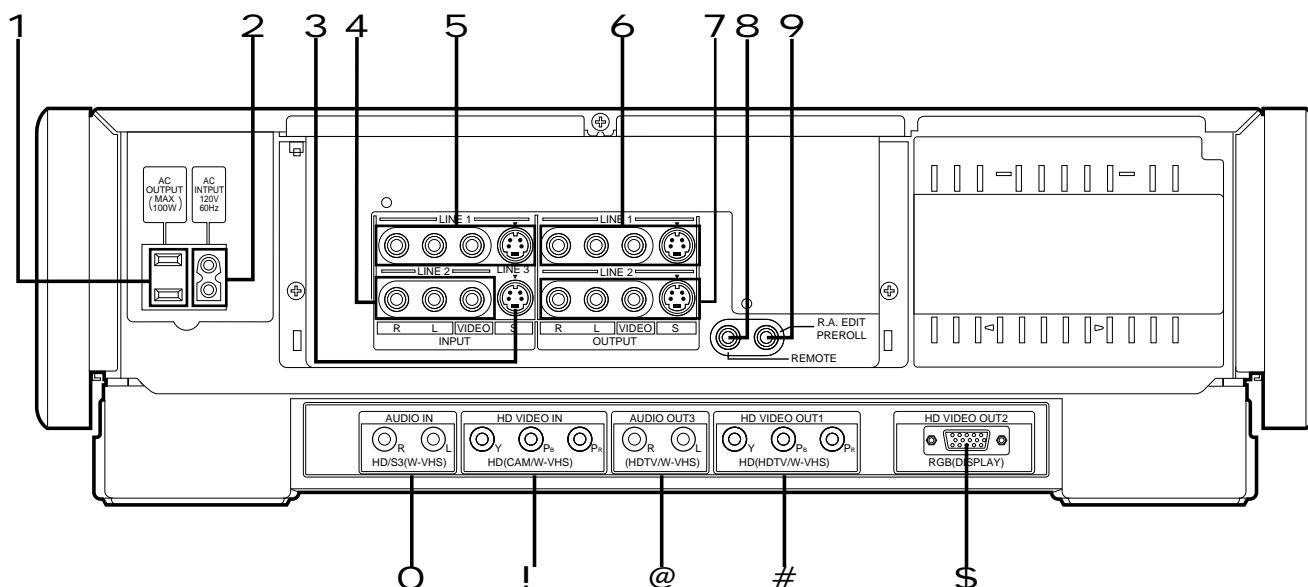
2 CONTROLS AND CONNECTORS

Front Panel

-) **[REW] button**
Rewinds the tape.
- [FF] button**
Fast forwards the tape.
- [STOP] button**
Stops any operation of the VCR.
- [PLAY] button**
Plays back the tape.
- [PAUSE/STILL] button**
Pauses the recording or changes the playback picture to a still picture. Cancelled by pressing the PLAY button.
- q **[INDEX SEARCH] buttons**
Search for the start of the recorded section or the section indicated by an INDEX signal, and then starts normal playback.
- [INSERT] button**
Use when replacing part of pre-recorded tape with other images and Hi-Fi sound.
- [A.DUB] button**
Use when replacing only the normal soundtrack with other sound on a pre-recorded tape.
- [REC] button**
Starts recording.
- w **[INPUT SELECT] button**
Selects among video/audio signals HD, L1, S1, L2, S3, L4 and S4.
- When W-VHS is in use, every press of the button changes Hd-L1-S1-L2-S3-L4-S4.
 - When S-VHS/VHS is in use, every press of the button changes L1-S1-L2-S3-L4-S4.
- [SP/EP] button**
Selects between recording speeds.
- e **[PREROLL EDITING OPERATION] buttons**
Use for preroll editing.
- r **[Random Assemble Editing] buttons**
Use for Random Assemble Editing.
- t **[JOG] dial**
Use for frame-by-frame playback.
- [SHUTTLE] ring**
Use for variable-speed search.

2 CONTROLS AND CONNECTORS

Rear Panel



1 Socket for peripheral equipment

Connects up to a maximum of 100 W.

2 AC IN Socket

Make sure that the end of the provided power cord fits into the power socket and plug it straight in until it stops.

3 S-VIDEO INPUT3 connector

When this machine is used as a recording unit for editing, connect to the S-VIDEO OUTPUT connector on the playback unit with the S-VIDEO cable.

4 VIDEO/AUDIO INPUT2 connectors

When this machine is used as a recording unit for editing, connect to the VIDEO/AUDIO OUTPUT connectors on the playback unit with the VIDEO/AUDIO cable.

5 S-VIDEO/VIDEO/AUDIO INPUT connectors

When this machine is used as a recording unit for editing, connect to the S-VIDEO/VIDEO/AUDIO OUTPUT connectors on the playback unit with the S-VIDEO/VIDEO/AUDIO cable.

6 S-VIDEO/VIDEO/AUDIO OUTPUT 1 connectors

Connect to the S-VIDEO/VIDEO/AUDIO INPUT connectors on a TV or other unit with the S-VIDEO/VIDEO/AUDIO cable.

7 S-VIDEO/VIDEO/AUDIO OUTPUT2 connectors

When this machine is used as a playback unit for editing, connect to S-VIDEO/VIDEO/AUDIO INPUT connectors with the S-VIDEO/VIDEO/AUDIO cable.

8 REMOTE connector

When externally controlling the machine using the optional remote control unit (RM-G30U), connect the remote control cable here.

9 R.A.EDIT/PREROLL connector

Connect to the REMOTE PAUSE connector on the recording unit with mini-plug cable for R.A.EDIT editing or PREROLL editing.

○ HD/S3 AUDIO IN connectors

- Connect to the AUDIO OUTPUT connectors on a hi-vision video camera with the AUDIO cable.
- When HD VIDEO IN connectors on this unit are used for editing, connect to the HD AUDIO OUT connectors on the playback unit (W-VHS) with the AUDIO Cable.
- When S-VIDEO INPUT3 connectors on this unit are used for editing, connect to the AUDIO OUT connectors on the playback unit with the AUDIO cable.

! HD VIDEO IN connectors

- Connect to the HD VIDEO OUT connectors on a hi-vision video camera with the HD VIDEO cable.
- When this machine is used as a recording unit for editing, connect to the HD VIDEO OUT connectors on the playback unit (W-VHS) with the HD VIDEO cable.

@ AUDIO OUT3 connectors

- Connect to the HD AUDIO IN connectors on a hi-vision TV, etc., with the AUDIO cable.
- When this machine is used as a playback unit for editing, connect to the HD AUDIO IN connectors on the recording unit (W-VHS) with the AUDIO cable.

HD VIDEO OUT 1 connectors

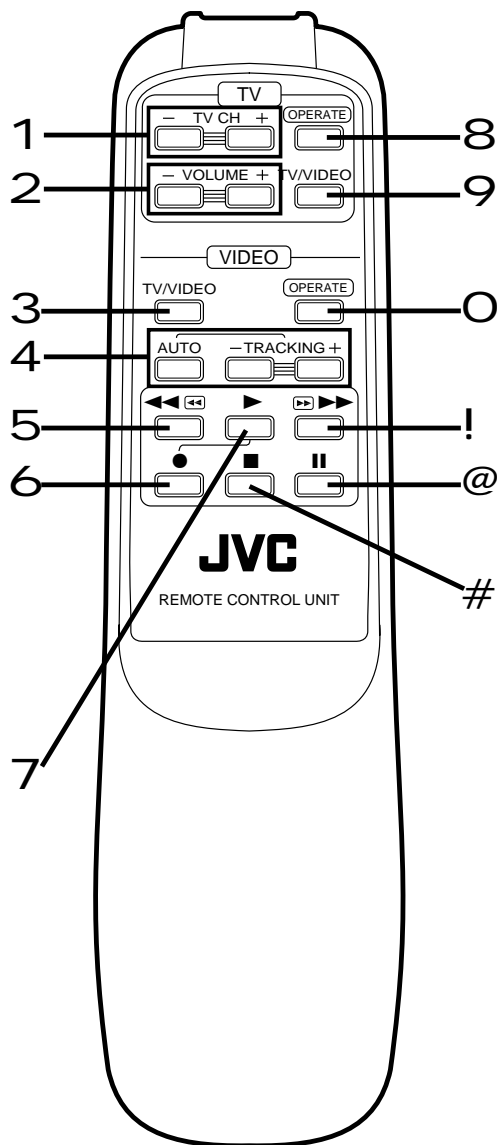
- Connect to the HD VIDEO IN connectors on a hi-vision TV, etc., with the HD cable.
- When this machine is used as a playback unit for editing, connect to the HD VIDEO IN connectors on the recording unit (W-VHS) with the HD cable.

\$ HD VIDEO OUT 2 connector

Connect to the RGB input connector on PC monitors, etc., with the RGB connector(15-pin).

2 CONTROLS AND CONNECTORS

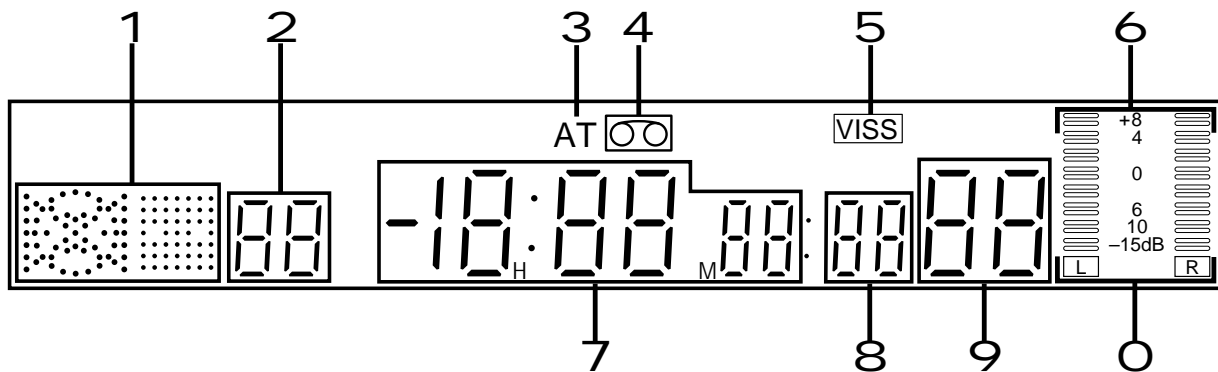
Remote Control



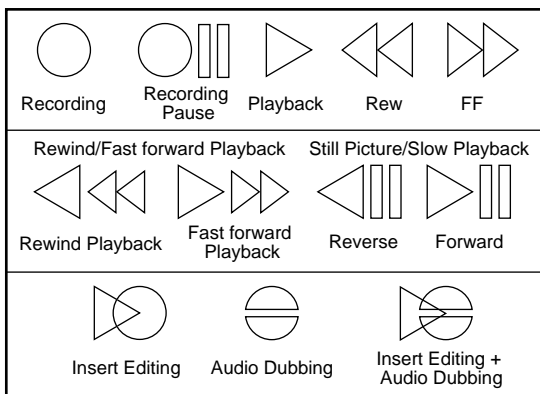
- 1 **[TV CH-/+]** buttons
Change channels on JVC TV.
- 2 **[VOLUME-/+]** buttons
Adjust the volume of a JVC TV.
- 3 **[TV/VIDEO]** button
No function.
- 4 **[AUTO]** button
Turns on and off the auto tracking facility.
[TRACKING -/+] buttons
Suppress the disturbances appearing on the picture when a tape recorded on another machine is played back (or put on slow motion back).
- 5 **[REW]** button
Rewinds the tape.
- 6 **[REC]** button
Recording operation differs from that of the main unit.
Recording starts when the play button is pressed while pressing this button.
- 7 **[PLAY]** button
Plays back the tape.
- 8 **[OPERATE]** button
Turns on and off a JVC TV.
- 9 **[TV/VIDEO]** button
Selects the input mode of a JVC TV.
- O **[OPERATE]** button
Turns on and off this unit.
- ! **[FF]** button
Fast forwards the tape.
- @ **[PAUSE/STILL]** button
Pauses the recording or changes playback picture to a still picture.
Cancelled by pressing the PLAY button.
- # **[STOP]** button
Stops any operation of the VCR.

3 INDICATORS AND DISPLAYS

Display Panel



1 VCR Mode Display



2 Program Number Display

displays the program number of Random Assemble Editing.

3 Auto Tracking Indicator

lights during auto tracking mode.
AT indicator is turned off by pressing AUTO button for manual tracking adjustment.

4 "Cassette loaded" Mark

appears when a cassette is loaded in VCR.

5 VISS(VHS Index Search System) Indicator

flickers when recording starts and stays lit when Index Search is performed.

6 Sound Level Indicator

indicates the level for both sound input and output.

7 Counter/Tape Remaining Time Display

displays the tape counter and the tape remaining time from the current tape position to the tape end.

8 Recording Mode/Recording Speed display

displays the recording mode: HD(Hd)/SD(Sd) when W-VHS tape is in use.
Displays the recording speed: SP/EP when S-VHS or VHS tape is in use.

9 External Input

displays the selected input connectors.
Every press of the INPUT SELECT button changes the display.
Hd can be selected only when a W-VHS tape is being used or when there is no cassette loaded in the unit.

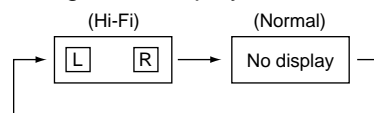
Display	Selected Connectors
Hd	HD VIDEO IN & HD/S3 AUDIO IN connectors (REAR)
L1	VIDEO & AUDIO INPUT 1 connectors(REAR)
S1	S-VIDEO &AUDIO INPUT1 connectors (REAR)
L2	VIDEO & AUDIO INPUT2 connectors (REAR)
S3	S-VIDEO INPUT3 & HD/S3 AUDIO IN connectors (REAR)
L4	VIDEO & AUDIO INPUT4 connectors (FRONT)
S4	S-VIDEO & AUDIO INPUT4 connectors (FRONT)

0 Sound volume display

displays the selected sound output mode.
Every press of the HI-FI AUDIO SELECT button changes the display as follows.



Every press of the AUDIO OUT SELECT button changes the display as follows.



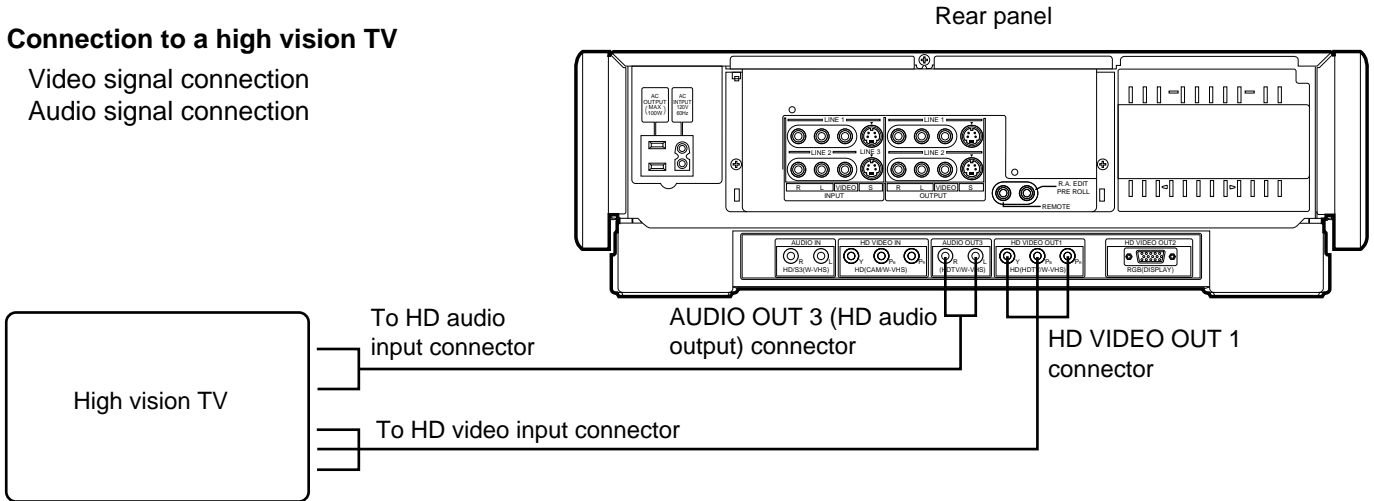
4 PREPARATIONS

Connections

The SR-W5U can be connected to the following units.

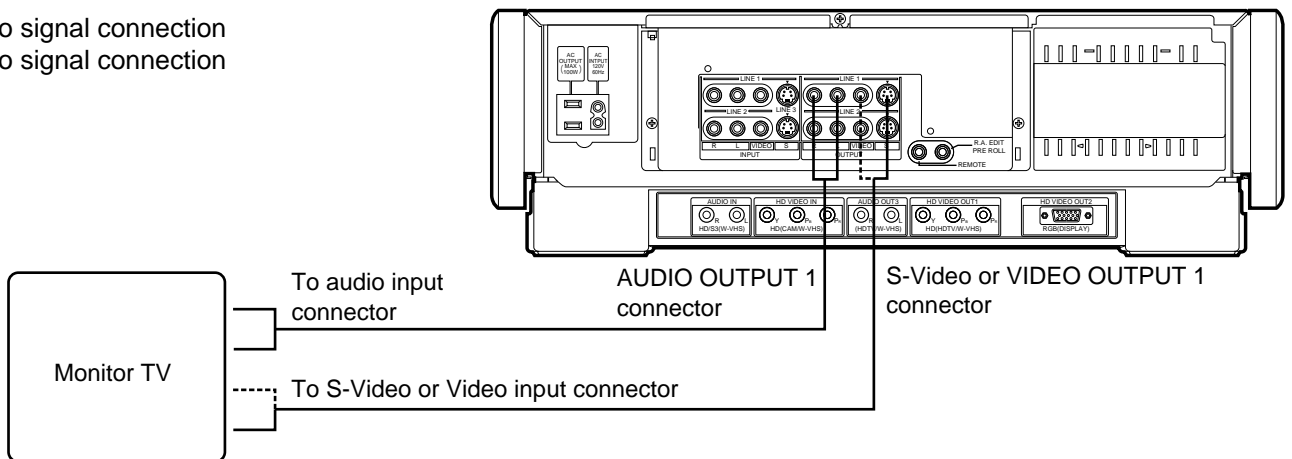
Connection to a high vision TV

Video signal connection
Audio signal connection



Connection to a monitor TV

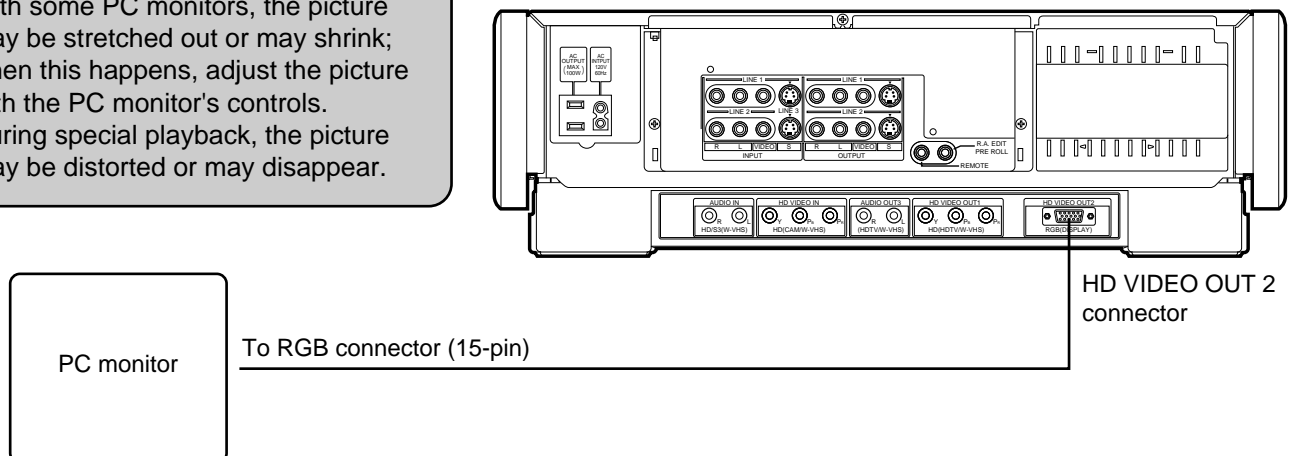
Video signal connection
Audio signal connection



Connection to a PC monitor equipped with RGB connector (15-pin)

Notes:

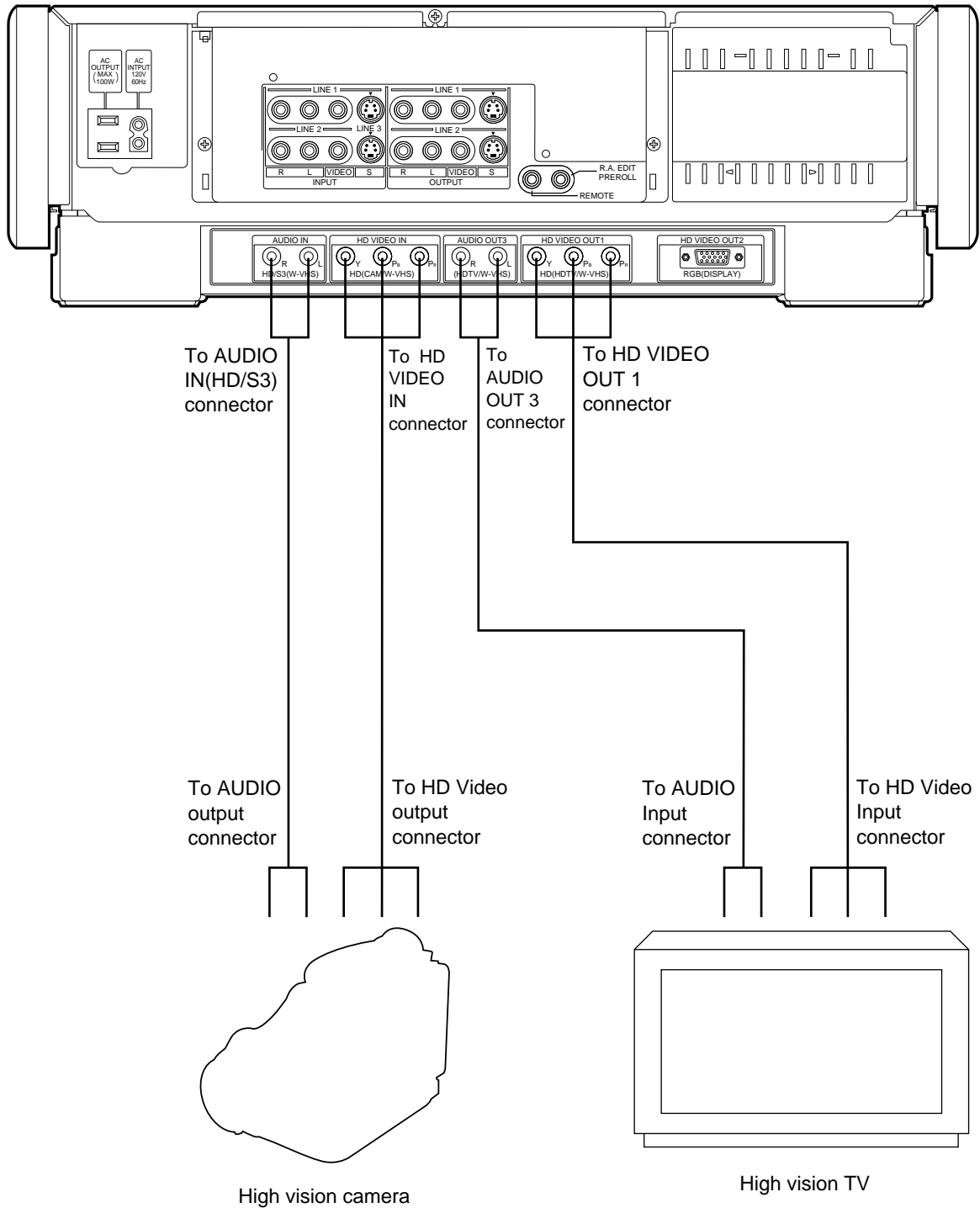
- With some PC monitors, the picture may be stretched out or may shrink; when this happens, adjust the picture with the PC monitor's controls.
- During special playback, the picture may be distorted or may disappear.



4 PREPARATIONS

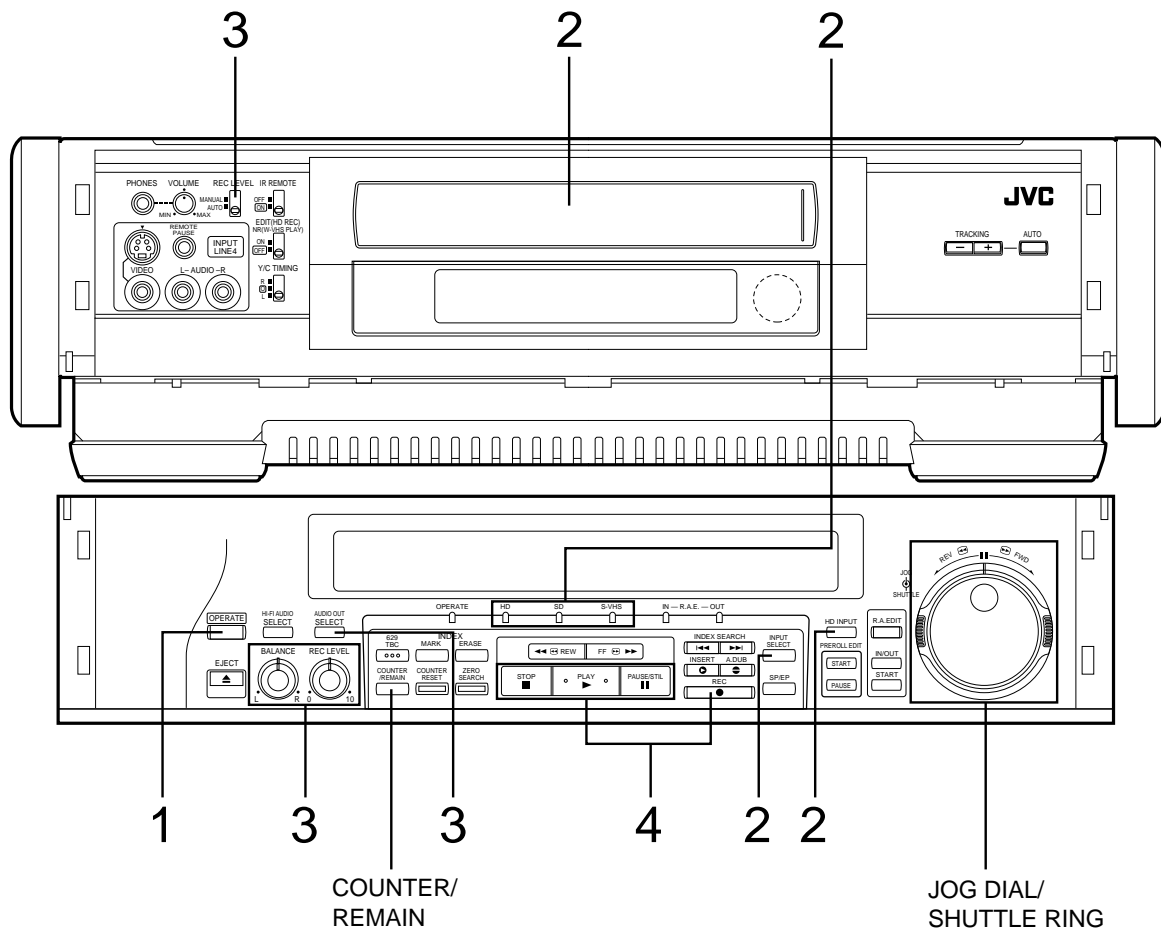
Connections

Connection to a high vision camera.



5 RECORDING

Basic Operations



Preparations

- 1 Turn the power on.
- 2 Select the recording mode.
Which mode is available depends on the type of the cassette in use.

Cassette in use	Recording mode
W-VHS	HD mode SD mode
S-VHS	S-VHS mode
VHS	VHS mode

HD mode

- a. Load the W-VHS cassette.
- b. Press the HD INPUT button. Then, HD lamp lights and Hd is shown on the front window display.

SD mode

- a. Load the W-VHS cassette.
- b. Select L1, S1, L2, S3, L4 or S4 with INPUT SELECT button. Then, SD lamp lights and Sd is shown on the front window display.

S-VHS mode

- a. Load the S-VHS cassette. The [S-VHS] lamp lights.
- b. Select L1, S1, L2, S3, L4 or S4 with INPUT SELECT button.
- c. Select recording speed with the SP/EP button. Every pressing this button changes the SP → EP → SP.

VHS mode

- a. Load the VHS cassette.
- b. Select L1, S1, L2, S3, L4 or S4 with INPUT SELECT button.
- c. Select recording speed with SP/EP button.

5 RECORDING

Basic Operations

3 Adjust the Hi-Fi recording level.

- Set the REC LEVEL switch to "MANUAL".
- Select Hi-Fi audio with the AUDIO OUT SELECT button. (See page 18).
- Adjust the recording level and L/R balance. While checking with the audio level meter, adjust with the REC LEVEL and BALANCE knobs, set the level so that maximum volume causes the meters to vary between 0dB to 4dB. Perform adjustment carefully, as too low a recording level may lead to a greater noise and too high a level may cause a distortion.

4 Start recording.

- Press the REC button, whereupon recording starts.
- Press the PAUSE/STILL button for a brief pause of recording.
- Pressing the PLAY button resumes recording.
- Press the STOP button to bring recording to an end.

Notes:

- VHS recording is not possible with S-VHS cassette.
- When pause remains for longer than five minutes, the machine automatically stops recording to protect tape and video head from damage.

How to Check the Tape Remaining Time

Press the COUNTER/REMAIN button during recording or playback. Every press of the button changes the display, alternating between counter reading and tape remaining time.

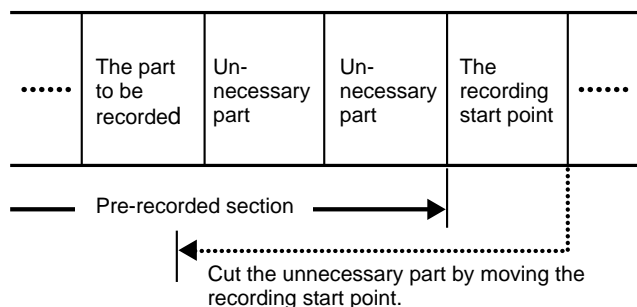
Notes:

- The tape remaining time is just an approximation you can refer to.
- Depending on the type of tape used, there may be times when the tape remaining time reading may not appear right away or is not correct.

Retake Function

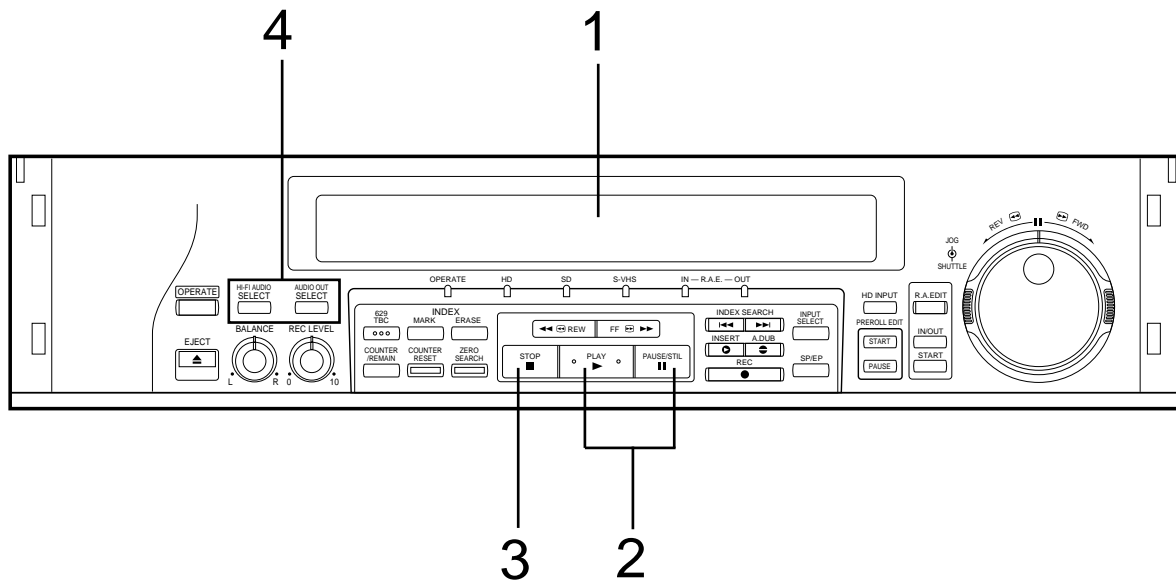
You can cut unnecessary parts of a program during recording. This facility does not work when a W-VHS tape is used.

- With the recording pause mode engaged, search for the beginning of the unnecessary part (where you want to adjoin the program) with JOG dial or SHUTTLE ring.
- Let go of the JOG/SHUTTLE at the start of the unnecessary part. The unit enters the pause mode when you do this.
- Press PLAY button at the part of the program you want to continue recording. Recording resumes.



6 PLAYBACK

Basic Procedure



1 Load the tape.

The power is turned on. Playback automatically starts with the tape protected (without safety tab).

2 Press the PLAY button.

Playback starts.

Press the PAUSE/STILL button to obtain a still picture. Playback resumes by pressing the PLAY button.

To monitor the HD-recorded tape, set the input select switch on the high vision TV to HD input.

3 Press the STOP button to bring the playback to an end.

Notes:

- With the still picture or slow play remaining for longer than five minutes, the STOP mode is automatically entered to protect the tape from damage.
- In HD mode, the still picture may fail to come up when quickly switching from PLAY to STILL.

Audio Select

4 How to select HiFi audio channel?

- Select with the HI-FI AUDIO SELECT button. Every pressing the button changes HiFiL,R → HiFiL → HiFiR.
- Check the audio output display on the front panel display window.

L **R** : left and right audio

L : left audio

R : right audio

When selecting a reproduced audio (HiFi audio/normal audio)

- Select with the AUDIO OUT SELECT button. Every pressing the button changes HiFi audio → normal audio. The tape for which HiFi audio has not been recorded reproduces normal audio.
- Check the audio output display on the front panel display window.

L **R** : HiFi audio

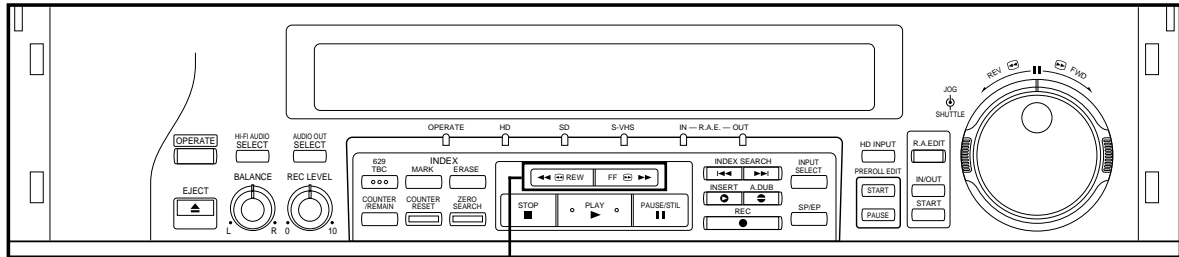
No display : normal audio

Note:

Since normal audio is not recorded on a W-VHS tape, selection between normal and mix audio is not possible on a tape like that.

6 PLAYBACK

Special Playback Procedures



1, 2

Variable Speed Playback

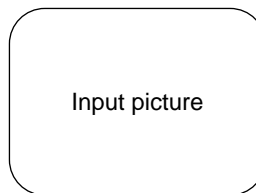
1 Press FF or REW button to fast forward or rewind during playback.

How to press the FF and REW buttons	REC mode				How to cancel the variable speed playback
	S-VHS /VHS tape		W-VHS tape		
	SP	EP	HD	SD	
Press and let your hand off (latch) immediately	about 7 X speed	about 21 X speed	about 7 X speed	about 20 X speed	Pressing the PLAY button resumes normal playback.
Keep pressing	about 7 X speed	about 15 X speed	about 7 X speed	about 14 X speed	Letting your finger off resumes normal playback.

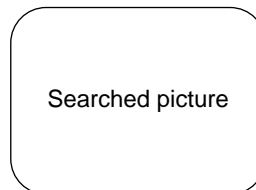
Monitoring the Video during FF or REW

2 Video can be monitored by pressing the FF button during fast forward or the REW button during rewinding and immediately letting your hand off the buttons. (open search)

TV screen



FF or REW going on

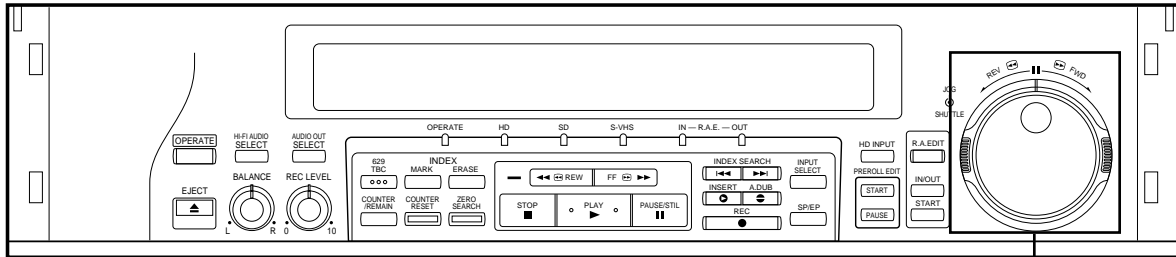


Press the FF/REW button and let it off immediately.

Open search going on

6 PLAYBACK

Special Playback Procedures



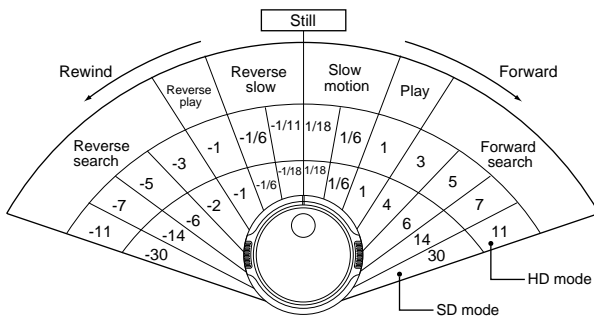
JOG DIAL/
SHUTTLE RING

Variable Speed Search

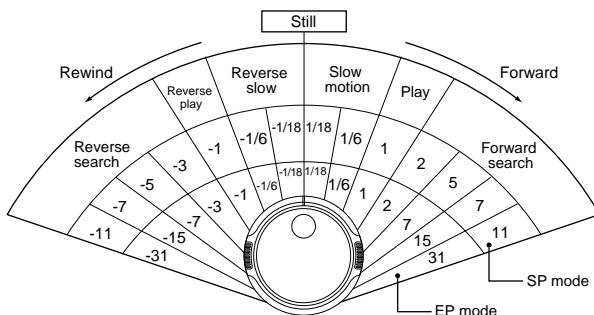
Turn the SHUTTLE ring during playback or still picture playback.

Still picture playback is engaged immediately after letting your hand go.

Playback speed when a W-VHS tape is in use.



Playback speed when a S-VHS/VHS tape is in use.



Notes:

- The playback picture will be distorted when the playback speed changes during special playback in SD or HD mode.
- There may be times when noise bars appear at the top/bottom of the screen during high-speed search in SD or HD mode.
- The playback picture will be distorted during frame-by-frame and slow-motion playback in HD mode. Or if the playback picture does not move during slow-motion playback, adjust the TRACKING – or + button so that it moves.
- Only during the reverse slow-motion playback in HD mode, the playback picture moves by 2 frames each.
- It may take a few minutes to return to the normal playback when pressing the PLAY button from the SD or HD still picture playback mode.
- Audio sound cannot be heard during variable speed search or frame-by-frame playback.
- After 5 minutes in the still picture or slow-motion playback mode, the STOP mode is automatically entered to protect the tape from damage.

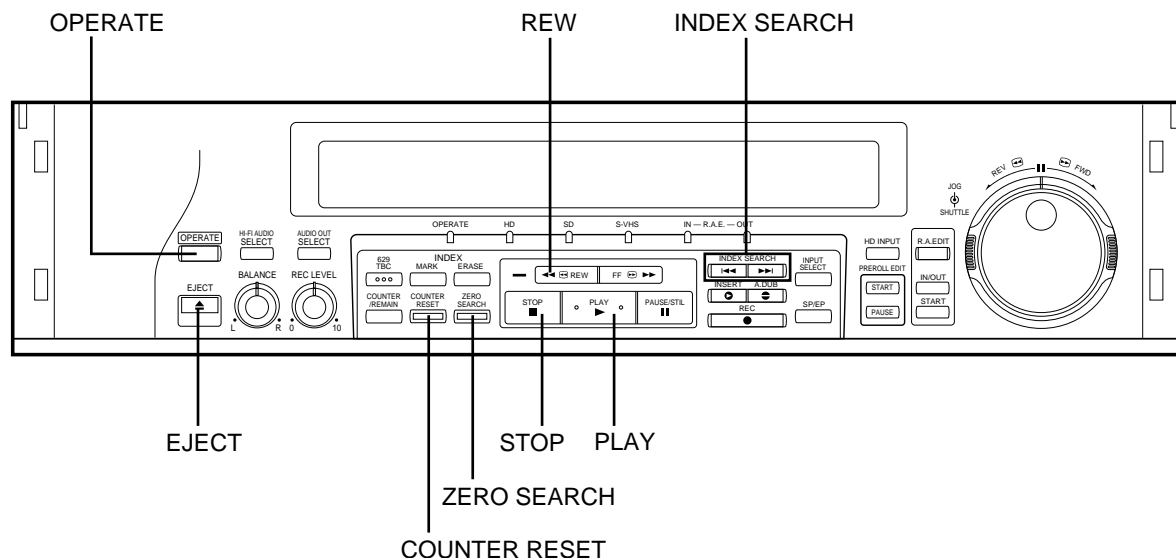
Frame-by-frame playback with JOG dial

Turn the JOG dial during playback and or still picture playback.

When you stop turning the JOG dial, still picture playback starts.

6 PLAYBACK


Next Function/Index Search




Next Function

After the tape is fully rewind, functions such as playing back, unloading the cassette and turning the power off, can be automatically executed.

• To play back

Press the PLAY button within 2 seconds after pressing REW button.
 flickers on the front panel display window.
 Playback automatically starts at the beginning of the tape.

• To unload the cassette

Press the EJECT button within 2 seconds after pressing REW button.
 flickers on the front panel display window.
 The cassette is automatically ejected at the beginning of the tape.

• To turn the power off

Press the OPERATE button within 2 seconds after pressing REW button.
 OPERATE lamp flickers.
 The power is automatically turned off at the beginning of the tape.

To engage the next function at the counter reading of 0:00:00, press the ZERO SEARCH button instead of REW.

Index Search playback

This facility searches for the index signal recorded on the tape where playback starts.

1. Press the INDEX SEARCH button during stop or playback to specify a desired address.
 The desired address is automatically searched, where-upon the tape is automatically played back.
 Every press of the forward button increases the number and every press of the reverse button decreases the number. Address up to ± 9 can be specified.
2. Press the STOP button to cancel this search.

Video unit display window.



Zero Search


The tape rewinds or fast-forwards to the counter reading of 0:00:00, then stops.

Press the ZERO SEARCH button during stop or playback.

Press the COUNTER RESET button to return to the counter reading of 0:00:00.

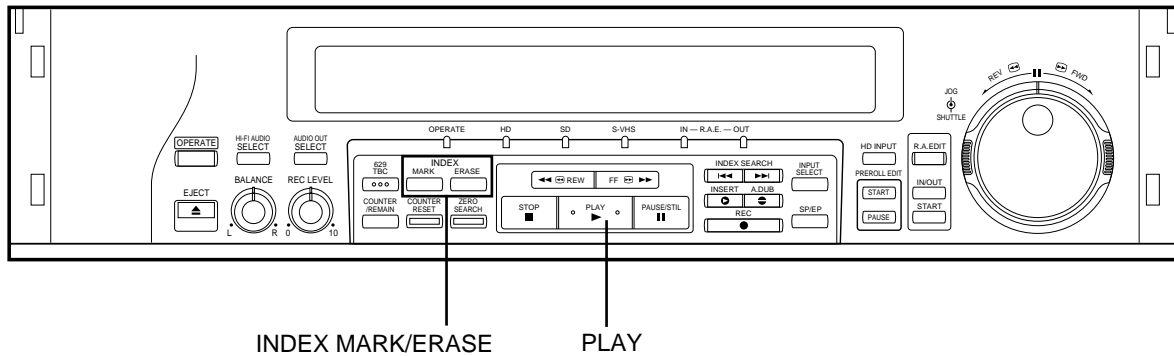
REPEAT playback

Repeat playback from the beginning of the tape to the end of the tape.

1. Press the PLAY button for longer than 5 seconds.
 flickers on the front panel display and stops at the beginning of the tape after repeating playback for 20 times.
2. Press the STOP button to cancel this function at any time.

6 PLAYBACK

Index Search



Recording the Index Signal

Index signal can be recorded on an arbitrary section of the tape.

Index signal is automatically recorded at the beginning of recording.

During recording or playback

Press the INDEX MARK button.

VISS flickers on the front panel display window, whereupon the index signal is recorded.

The **VISS** goes off, finishing the recording procedure.

During Recording Pause or Still Picture Playback

a. Press the INDEX MARK button.

VISS is shown on the front panel display window.

b. Press the PLAY button.

VISS flickers, whereupon the index signal is recorded.

c. **VISS** disappears, finishing the recording procedure.

Erasing the Index Signal

The index signal recorded on the tape can be erased.

a. Enter playback or still picture playback several seconds before the index signal to be erased.

b. Press the INDEX ERASE button.

VISS is shown on the front panel display window.

The tape automatically runs to erase the index signal.

c. The **VISS** display disappears, finishing the erasure of the index signal.

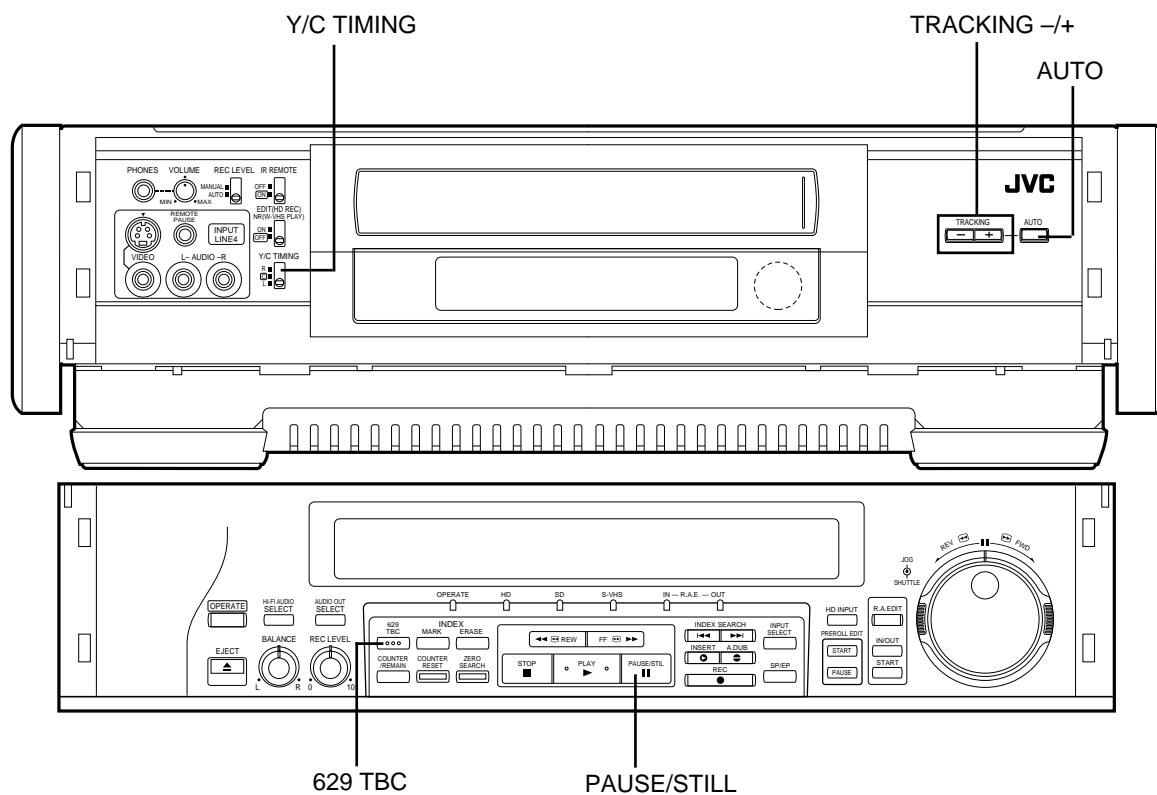
Tape goes on playing back.

Notes:

- When recording an index signal on a recorded tape, perform it in the playback mode. In record mode, previous video or audio will be erased.
- Record an index signal at a due distance from a neighboring index signal to avoid operational error.
- With **VISS** shown on display, do not operate other buttons.
- If the record speed is changed from SP to EP near the index signal, the picture may be disturbed after recording or erasing the index signal is finished.
- Recording or erasure cannot take place on a protected tape (without safety tab) or an unrecorded tape.

6 PLAYBACK

Adjustment of Playback Picture



To correct distortion of the picture

Press the 629TBC button to display "TBC ON" on the front panel display window.

- Every press of the button changes the display, ON → OFF alternately.
- Depending on the type of signal recorded on the tape, the playback picture may not be clearly visible. In that case, the picture may be better by setting to "OFF".
- When playing back a W-VHS tape, TBC for W-VHS works regardless of the "ON" or "OFF" setting.

This facility is helpful for the following occasions.

- Tape recorded with a camcorder.
- Tape used repeatedly.
- When using this unit as a playback machine during dubbing.

To adjust the picture when the color phase shifts from side to side during playback

When the color phase shifts toward the left, set the Y/C TIMING switch to "R".

When the color phase shifts toward the right, set the Y/C TIMING switch to "L".

Normally set to "C".

The Y/C TIMING switch has no effect when 629TBC is set to "OFF".

When there is too much noise in the playback picture

When auto tracking of this unit is not effective, adjust the tracking manually.

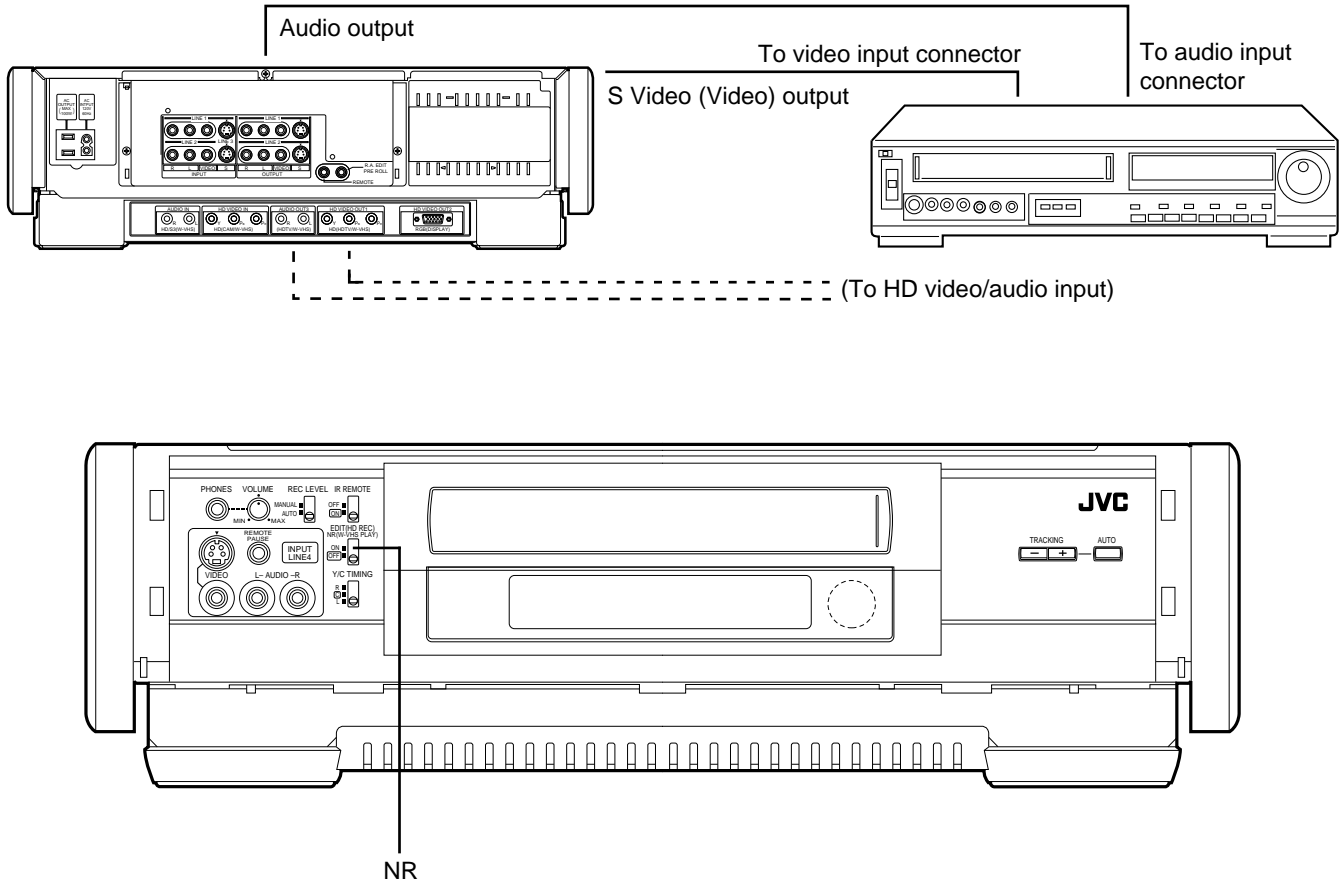
1. Press the AUTO button during playback.
 - AT display on the display panel of this unit disappears and auto tracking is disengaged.
 - Pressing it again returns to the auto tracking mode.
2. Adjust with the TRACKING +/- button.

When noise appears during still picture/slow-motion playback

1. Press PAUSE/STILL button for longer than 2 seconds to perform slow-motion playback.
2. Adjust with the TRACKING +/- button.
 - Tracking adjustment may not be entirely effective when playing back a tape with a poor quality recording.

7 TAPE DUBBING

When Playing Back on SR-W5U and Recording on Another Unit



Another unit (as a recording machine)

- 1 Set the recording machine to external input.
- 2 Put the recording to a pause.

SR-W5U (as a playback machine)

- 3 Start playback shortly before the section where you want to PLAY.
 - When noise appears during playback with W-VHS tape, set the NR switch to "ON".

Another unit (as a recording machine)

- 4 Start recording at a section of the program you want to dub.
- 5 To finish, press the STOP button. Extra recording can be avoided by stopping the recording machine then the SR-W5U.

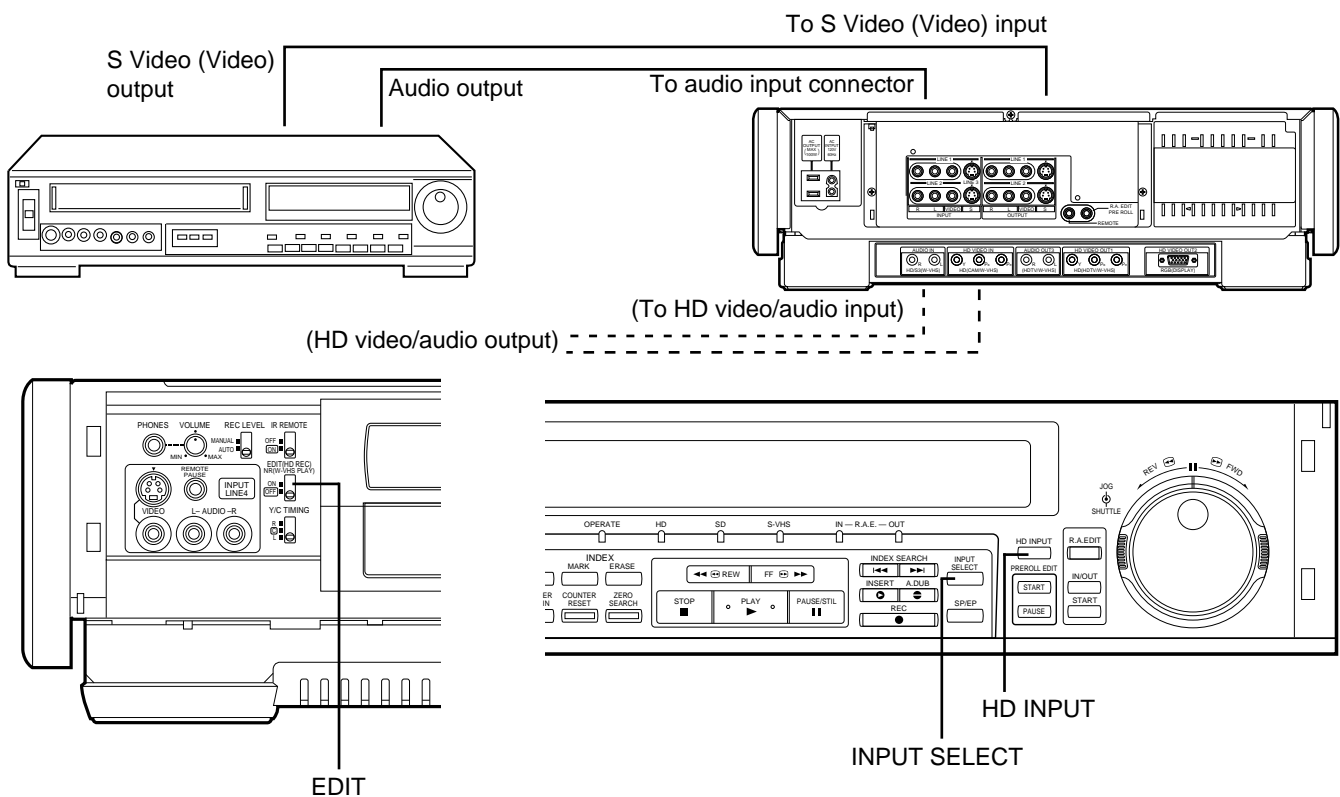
SR-W5U (as a playback machine)

- 6 Press the STOP button.
- 7 If the NR switch was set to "ON" in step 3, set it back to "OFF".

- When dubbing a high vision video, use the HD video cable, provided that the recording VCR is equipped with the HD video input and HD audio input connectors.

7 TAPE DUBBING

When Playing Back on Another Unit and Recording on SR-W5U



SR-W5U (as a recording machine)

- 1 Select the input in connection by pressing the INPUT SELECT button.
 - You can change the input quickly by pressing HD INPUT button.
 - Set the EDIT switch to "ON" when connecting to high vision camera and recording in HD mode.
- 2 Press the REC button while pressing the PAUSE button to bring recording to a pause.

Another unit (as a playback machine)

- 3 Start playback shortly before the section where you want to dub.

SR-W5U (as a recording machine)

- 4 Press the PLAY button at a section where you want to dub.
- 5 To bring recording to a pause, press the PAUSE button.
- 6 To finish, press the STOP button.
 - Extra recording can be avoided by stopping the SR-W5U then the playback machine.

Another unit (as a playback machine)

- 7 Press the STOP button.

SR-W5U (as a recording machine)

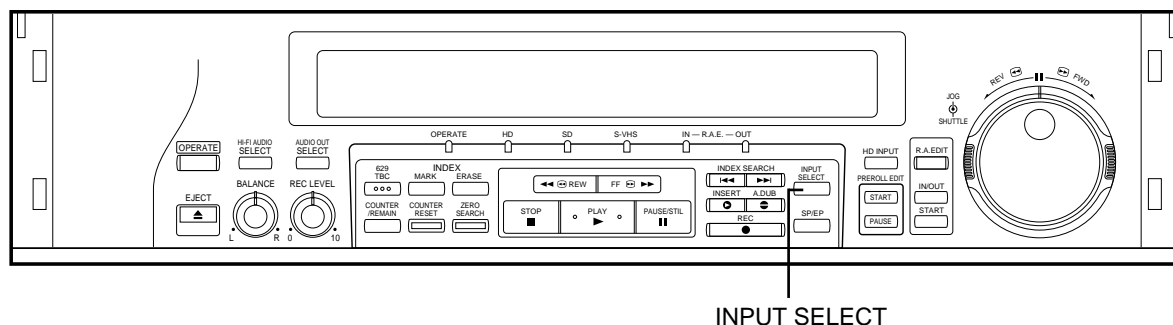
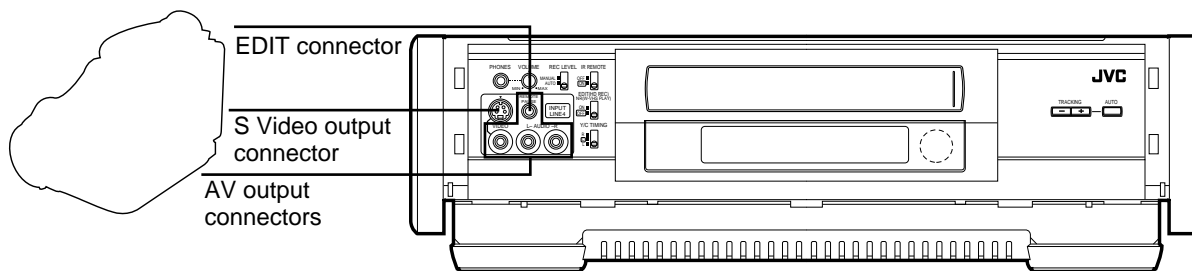
- 8 If EDIT switch was set to "ON" in step 1, set it back to "OFF".

- When dubbing a high vision video, use the HD video cable, provided that the recording VCR is equipped with the HD video output and HD audio output connectors.
- When dubbing from an audio unit, record the video together with the audio.
- When record pause stays for longer than five minutes, the machine automatically stops to protect the tape and video heads from damage.

- What you have recorded on the video cassette recorder cannot be used without approval of the copyright holder, except that it is solely for personal amusement.

7 TAPE DUBBING

When Playing Back on a Video Movie and Recording on SR-W5U



- When dubbing, REC start/stop on this machine can be controlled from the video movie. (Master edit control function)
- This can be operated when connected with a JVC's video movie.
- Please read the instruction manual of the video movie.
- Refer to page 15, 25 to connect to high vision camera and to record in HD mode.

SR-W5U (as a recording machine)

- 1 Select S4 or L4 with the INPUT SELECT button.
- 2 Press the REC button while pressing the PAUSE button to bring recording to a pause.

Video movie (as a playback machine)

- 3 Put the video movie to a still playback mode at a section you want to dub.
- 4 Press the EDIT button.

SR-W5U (as a recording machine)

- 5 The machine starts recording.

Video movie (as a playback machine)

- 6 Press the PAUSE button at a section where you want to stop.

SR-W5U (as a recording machine)

- 7 Recording is brought to a pause.

Video movie (as a playback machine)

- 8 When resuming recording, press the EDIT button.

SR-W5U (as a recording machine)

- 9 Recording is re-started.

Video movie (as a playback machine)

- 10 When finishing, press the STOP button.

SR-W5U (as a recording machine)

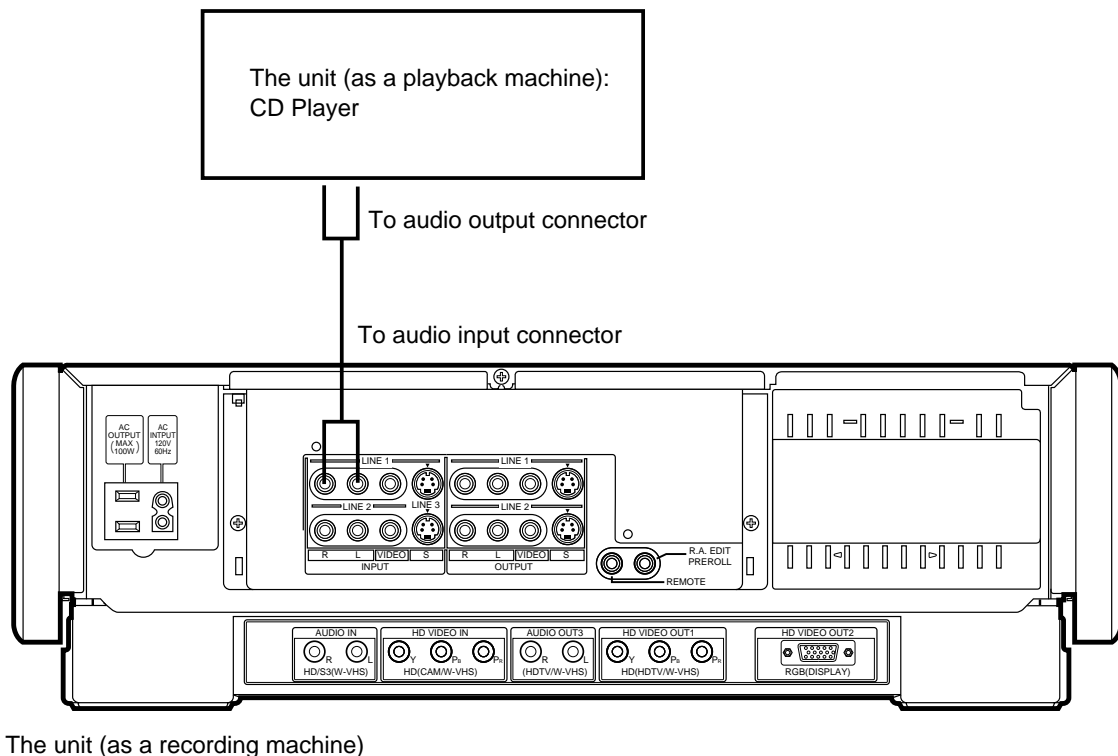
- 11 The machine is brought to a pause.
- 12 Finish with the STOP button.

- When SD-recording with the SR-W5U by playing back a tape having edit points, pictures may be distorted at these edit points.
- When record pause stays for longer than five minutes, the machine automatically stops to protect the tape and video heads from damage.

8 EDITING

Audio Dubbing

When a W-VHS tape is used, audio dubbing is not possible since it has no normal audio soundtrack.



The unit (as a recording machine)

- 1 Select the connected input with the INPUT SELECT button.
- 2 Play back the tape and search for the beginning of the section where you want to dub with JOG dial or SHUTTLE ring and engage the still playback mode.
- 3 Press the A.DUB button
 - is displayed on the front panel display window and the unit enters the audio dubbing pause mode.

The unit (as a playback machine)

- 4 Start playback shortly before the section you want to dub.

The unit (as a recording machine)

- 5 Press the PLAY button at the section where you want to dub.
 - Audio dubbing starts.
- 6 Press the STOP button to finish.

The unit (as a playback machine)

- 7 Press the STOP button.

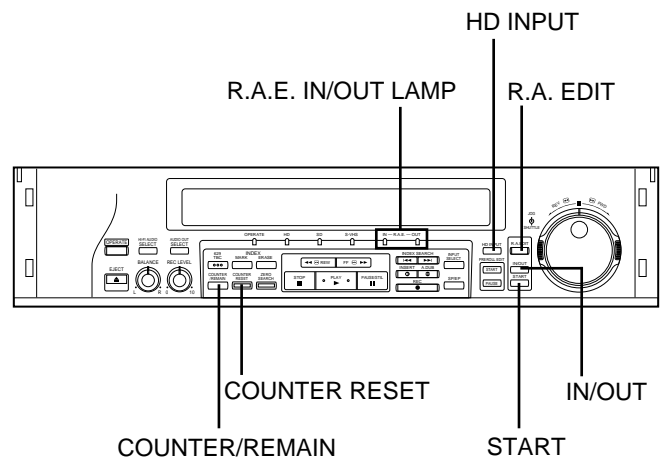
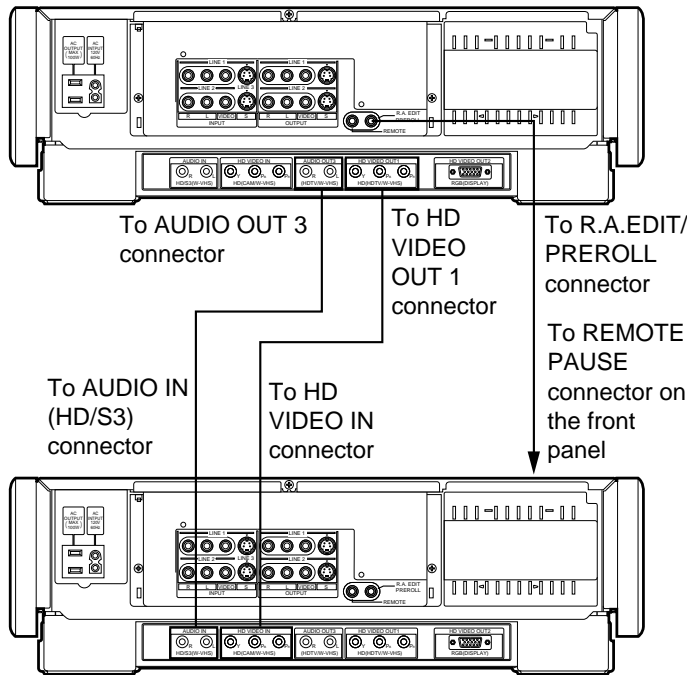
- Set the counter reading to 0:00:00 by pressing COUNTER RESET button at the edit-out point before step 2 in order to determine the edit-out point and to dub. Audio dubbing stops automatically when the counter reading reaches 0:00:00 and enters playback.
- When monitoring the sound during or after audio dubbing, select the desired soundtrack with the AUDIO OUT SELECT button.
- After audio dubbing, normal audio soundtrack is selected. Return to the Hi-Fi soundtrack with the AUDIO OUT SELECT button.

Random Assemble Editing

(Ex.) Random Assemble Editing in the HD mode using 2 units of SR-W5U.

It is convenient to cut unnecessary parts, change the scene orders or to dub these to another video recorder. You can select as many as 8 segments.

The unit as a playback machine

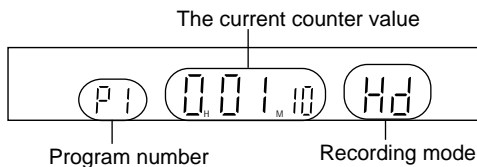


The unit as a recording machine

The unit (as a playback machine)

- 1 Press the R.A.EDIT button.
R.A.E. IN lamp will light.

Video unit display window



- 2 Start playback and press the IN/OUT button at the edit-in point (the beginning of the segment).
R.A.E. OUT lamp will light.



- 3 Press the IN/OUT button at the edit-out point (the end of the segment).
R.A.E. IN lamp will light.
Repeat steps 2-3, as many as 8 segments can be selected.



- 4 Press PAUSE button to enter still picture playback after setting IN/OUT points.

The unit (as a recording machine)

- 5 Press the HD INPUT button to set to external input(Hd).
- 6 Enter the recording pause mode.

Random Assemble Editing

The unit (as a playback machine)

- 7 Press the START button.
- Editing begins in programmed order, dubbing continues automatically until the last edit-out point.
 - This function shuttle searches from edit-out point to the next edit-in point.
 - When editing is completed;
The unit (as a playback machine) : will be in stop mode
The unit (as a recording machine) : will be in recording pause mode

The unit (as a recording machine)

- 8 Press the STOP button.

The unit (as a playback machine)

- 9 Press the R.A.EDIT button.
- R.A. EDIT ends.

To cancel or change in-or-out points

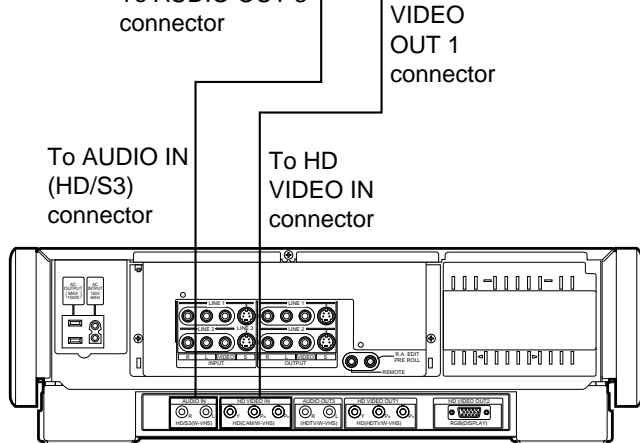
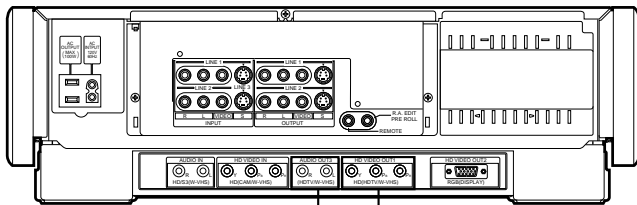
1. After completing step 3, press COUNTER RESET button.
 - The last-registered counter number will disappear.
Every press of the COUNTER RESET button erases the last registered number.
 - Cancelling and changing the counter value while programming is not possible.
2. Re-do steps from 2 – 3 to change.

- Press the COUNTER/REMAIN button to display the total recording time of each program on the front panel display window.
Every press of the button changes the display as follows:
counter—the tape remaining time –the total recording time of all the segments
- Out-point counter value can be registered only when it is higher than in-point counter value.
- Actual in- or out-point may differ slightly from your scene selection.
- Segments with no registered out-point cannot be executed.
- The total time on the counter display and the added up recording time of each program are sometimes not the same since counter display for in- or out-points doesn't show a numerical value of less than 1 second.
- If it takes more than 5 minutes to search for an in-point, the unit's (as a recording machine) Record Pause mode is cancelled and editing doesn't take place.
- At the beginning /end of the tape in the unit (as a playback machine), Random Assemble Editing is sometimes not available.

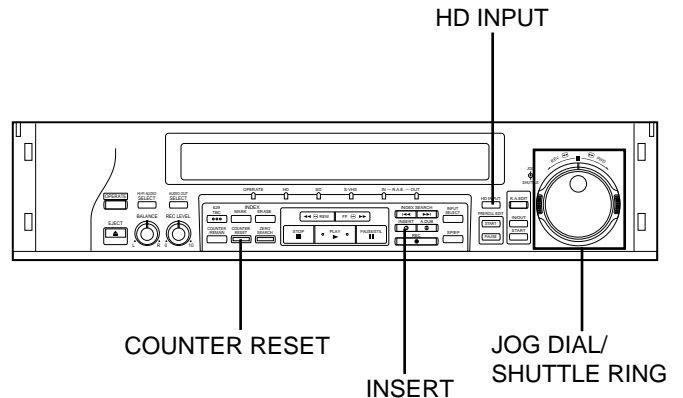
Insert Editing

(Ex.) Insert Editing using 2 units of SR-W5U in the HD mode.


The unit as a playback machine



The unit as a recording machine



The unit as a recording machine

- 1 Select the connected input (Hd) by pressing the HD INPUT button.
- 2 Play the tape back to determine the edit-out point (the end of the segment) with JOG dial or SHUTTLE ring, then engage the still playback mode.
- 3 Press the COUNTER RESET button to set the counter reading to 0:00:00.
- 4 Determine the edit-in point (the beginning of the segment to be replaced) with JOG dial or SHUTTLE ring, then engage the still playback mode.
- 5 Press the INSERT button.
 appears on the front panel display window and this unit enters the insert pause mode.

The unit as a playback machine



- 6 Start playback shortly before the section where you want to insert.

The unit as a recording machine

- 7 Press the PLAY button at the section you want to insert.
 - Insert editing starts.
 - Insert editing automatically stops when the counter reaches 0:00:00 and playback starts.
- 8 Press the STOP button.

The unit as a playback machine

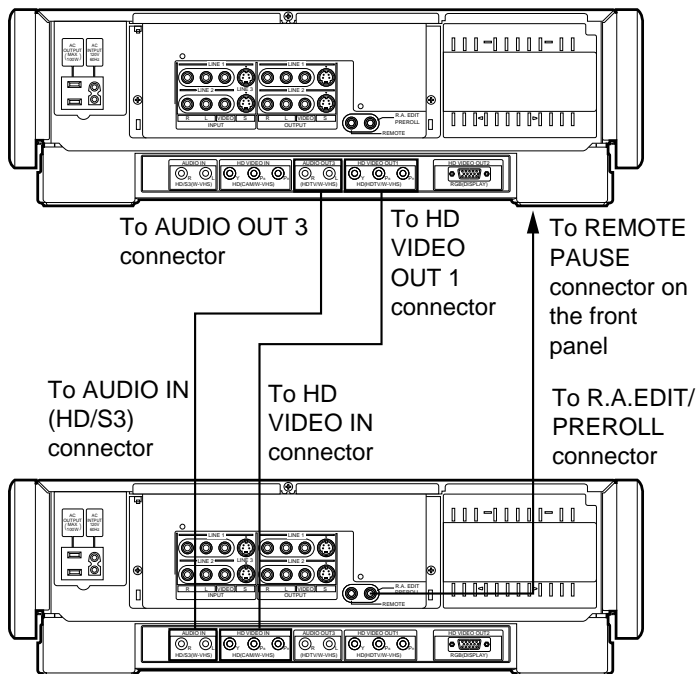
- 9 Press the PLAY button.

- Press the COUNTER RESET button to cancel Insert Editing at any time. Editing will end and the recorder will enter the Play mode.
- During Insert Editing, press the A.DUB button after pressing the INSERT button in step 5 to dub the same sound as the Hi-Fi audio soundtrack onto the normal audio soundtrack.  changes to  on the front panel display window. The facility does not work with a W-VHS tape since the normal soundtrack will not be recorded.
- If the recording's speed (SP/EP) changes in the middle of an insert edit, the inserted picture will be distorted at the switching point.
- Insert editing continues even though the blank portion of the recording appears during insert editing.
- Insert editing replaces part of a recorded tape with a new picture and Hi-Fi audio soundtrack. Please be advised that the edit-out point will not be the same as the registered value if there is a blank portion in the recording.

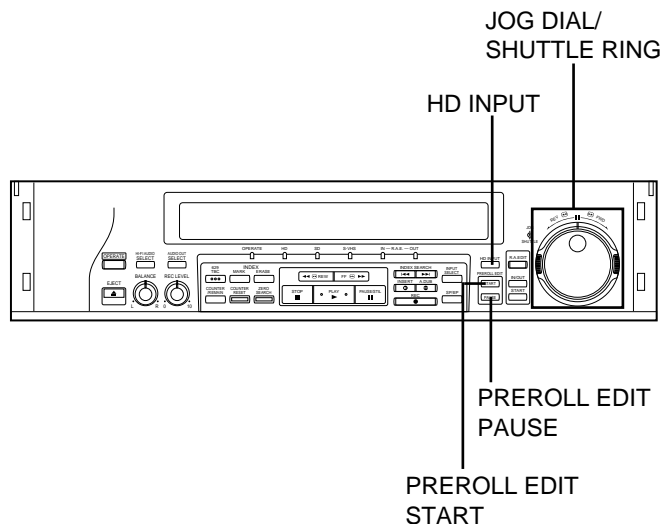
Preroll Editing

(Ex.) Preroll Editing using 2 units of SR-W5U in the HD mode.

The unit as a playback machine



The unit as a recording machine



Preroll Editing is a function which starts playback after automatically rewinding the unit (as a playback machine) to a position located a few seconds before (approx. 5 seconds) the editing start point, and starts recording on the unit as a recording machine at the edit-in point. Since the editing is done between this unit and another one after the tape has stabilized, the connected section on the tape appears smoothly.

The unit as a recording machine

- 1 Select the connected input(Hd) by pressing HD INPUT button.

The unit as a playback machine

- 2 Play the tape back and set the player to the still picture playback mode at the edit-in point.

The unit as a recording machine

- 3 Play the tape back to determine the recording start point with JOG dial/SHUTTLE ring and engage the still playback mode.
- 4 Press the REC button. Recording pause mode is engaged.

- 5 Press the PREROLL EDIT START button.
 - Editing starts.
 - The unit (as a playback machine): after prerolling for 5 seconds, playback starts.
 - The unit (as a recording machine): starts recording at the edit-in point.
- 6 Press the PREROLL EDIT PAUSE button at the edit-out point.
 - The unit (as a playback machine): the still picture playback mode is engaged 2 seconds after the button is pressed.
 - The unit (as a recording machine): enters recording pause mode.
- 7 Press the STOP button.

The unit as a playback machine

- 8 Press the STOP button.

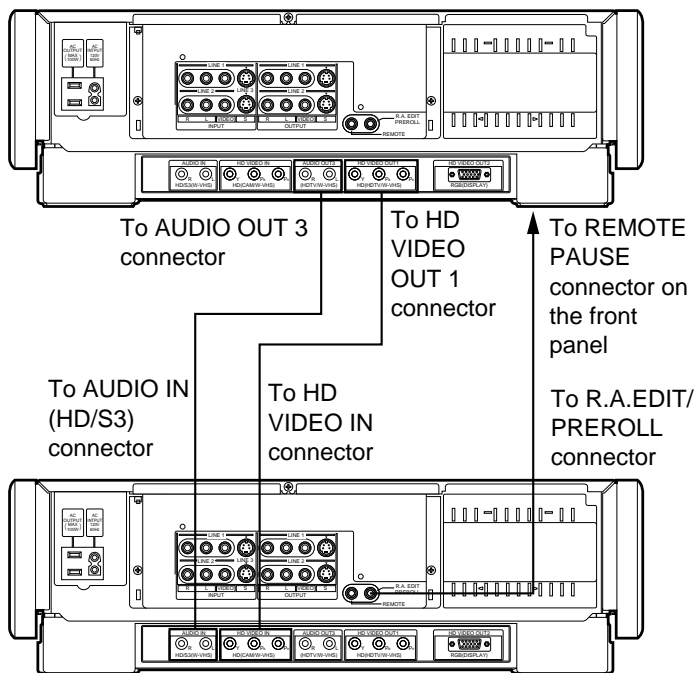
- When record pause remains for longer than 5 minutes, the machine automatically stops to protect the tape and video heads from damage.

Preroll Insert Editing

(Ex.) Preroll Insert Editing using 2 units of SR-W5U in the HD mode.


It is an Insert Editing using Preroll Editing(see page 31).

The unit as a playback machine



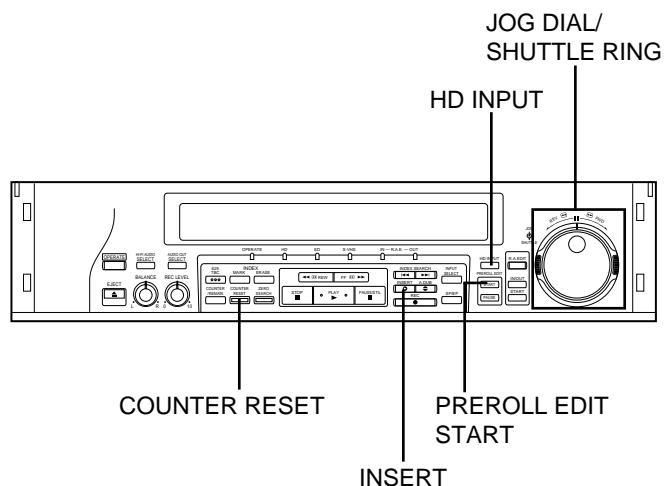
The unit as a recording machine

The unit as a recording machine

- 1 Select the connected (Hd) by pressing HD INPUT button.
- 2 Play the tape back with JOG dial/SHUTTLE ring to determine the insert editing-out point and set the recorder to the still playback mode.
- 3 Press the COUNTER RESET button to set the counter reading to 0:00:00.
- 4 Determine the insert edit-in point with JOG dial/SHUTTLE ring and put the recorder in the still playback mode.
- 5 Press the INSERT button.  appears on the front panel display window and insert pause mode is engaged.

The unit as a playback machine

- 6 Play the tape back and set the player to the still playback mode at the edit-in point.





The unit as a recording machine

- 7 Press the PREROLL EDIT START button.
 - Preroll insert editing starts.
 - The unit as a playback machine: playback starts after prerolling for about 5 seconds.
 - The unit as a recording machine: insert editing starts at the edit-in point.
 - When the counter reaches 0:00:00, editing will be automatically cancelled 2 seconds after the still playback mode is engaged.
- 8 Press the STOP button.

The unit as a playback machine

- 9 Press the STOP button.

- To cancel preroll insert editing at any time, press the COUNTER RESET button. Editing stops and the still playback mode will be engaged 2 seconds later.
- During preroll insert editing, press the A.DUB button after pressing the INSERT button in step 5 to dub the same sound as the Hi-Fi audio soundtrack onto the normal audio soundtrack. The front panel display window displays  → . The facility does not work with a W-VHS tape since the normal soundtrack will not be recorded.

9 SPECIFICATIONS

- Power supply AC 120 V, 60 Hz
- Power consumption 40 W
- External dimensions 476 (W) × 148 (H) × 366 (D)
- Weight 9.0 kg
- Allowable operating temperatures +5°C — +40°C
- Allowable relative humidity 35% — 80%
- Allowable storage temperature -20°C — +60°C

Video

- Recording/playback format [W-VHS format]
 - HD mode: Rotary 4-head helical scanning system
 - SD mode: Rotary 2-head helical scanning system
 - Temporal compression TCI signal FM recording
- [S-VHS/VHS format]
 - Rotary 2-head helical scanning system
 - Luminance signal FM recording
 - Color signal Phase shift, converted sub-carrier direct recording
- Video signal NTSC -type color signal
Hi-vision baseband signal

HiFi Audio

- Recording system VHS stereo HiFi system
- Frequency response 20 Hz — 20 kHz
- Dynamic range 90 dB or more
- Wow & flutter 0.005 % or less
- Channel separation 60 dB or more

Normal Audio

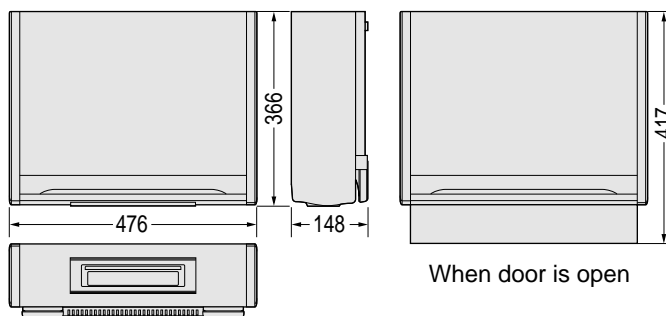
- Recording system Linear track
- Audio track 1-channel monaural

Connectors

- HD Video
 - Input Y : 0.7 Vp-p, 75 ohms, ternary in sync
 - P_B, P_R : ±0.35 V, 75 ohms, ternary in sync
 - Output Y : 0.7 Vp-p, 75 ohms, ternary in sync
 - P_B, P_R : ±0.35 V, 75 ohms, ternary in sync
- RGB Output
 - R : 0.7 Vp-p, 75 ohms
 - G : 0.7 Vp-p, 75 ohms
 - B : 0.7 Vp-p, 75 ohms
 - HD : TTL Level, 75 ohms
 - VD : TTL Level, 75 ohms
- S Video
 - Input Y : 0.8 – 1.2 Vp-p, 75 ohms
 - C : 0.2 – 0.4 Vp-p, 75 ohms
 - Output Y : 1.0 Vp-p, 75 ohms
 - C : 0.29 Vp-p, 75 ohms
- Video
 - Input 0.5 – 2.0 Vp-p, 75 ohms (RCA)
 - Output 1.0 Vp-p, 75 ohms (RCA)
- Audio
 - Input -8 dBs, 50 kohms (RCA)
 - Monaural on front panel connectors only (left)
 - Output -8 dBs, 1 kohm (RCA)
- REMOTE PAUSE mono 3.5 mm
- R.A.EDIT/PREROLL mono 3.5 mm
- REMOTE mono 3.5 mm

Accessories

- Provided accessories
 - Cleaning Tape
 - Power Cord
 - Infrared Remote Control Unit
 - "AA" Battery x 2



* Designs and specifications subject to change without notice.

MEMO



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