

SONY

STEREO VIDEO CASSETTE RECORDER **Beta**

SL-HF750

OPERATING INSTRUCTIONS

Before operating the unit, please read this manual thoroughly, and retain it for future reference.

OWNER'S RECORD

The model and serial numbers of your set are located at the rear. Record the serial number in the space provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. SL-HF750 Serial No. _____



Super Beta hi-fi

This unit can be used with any video cassette tapes having the mark **B**.

It is compatible with the **B I**s, **B II** and **B III** type recording and playback formats, and will play back tapes recorded in the **B I** format.

TABLE OF CONTENTS

Warning	2
Removal of the transit screws	2
Precautions	3
Location and function of controls	4
Handling the video cassettes	8

BASIC OPERATIONS

Cassette insertion	9
TV program recording	10
Playback	12
Various playback modes	13
Use of the tape counter	15
Remote control operation	16
Timer-activated recording	18
Quick timer recording	21

ADVANCED OPERATIONS

Index function	22
Beta hi-fi audio recording	25
PCM recording and playback	27
Camera recording	27
Tape editing	28

CONNECTIONS

Antenna/cable and TV connection	31
Connection to an audio system	35

ADJUSTMENTS

Adjusting the TV	36
Presetting the active channels in your area	37
Clock setting	38

GENERAL

Specifications	39
Trouble checks	40

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.



This symbol 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.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

CAUTION:

TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS POLARIZED AC PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

INFORMATION

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measure:

- reorient the receiving antenna
- relocate this equipment with respect to the receiver
- move this equipment away from the receiver
- plug this equipment into a different outlet so that equipment and receiver are on different branch circuits.

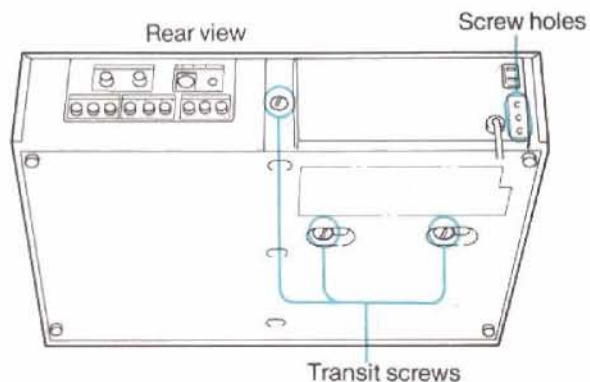
If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful:

"How to identify and Resolve Radio-TV Interference Problems". This booklet is available from the U.S. Government Printing Office, Washington DC, 20402, Stock No. 004-000-00345-4.

REMOVAL OF THE TRANSIT SCREWS

The cassette compartment is secured with three transit screws to prevent it from sliding out while the unit is being transported.

Before operating the unit, be sure to remove the transit screws, using a screwdriver. Store the screws in the screw holes at the rear, and put them back in the original positions, when transporting the unit.



PRECAUTIONS

On safety

- Before operating, check that the operating power voltage and frequency of the unit are identical with those of your local power supply.
- Should any solid object or liquid fall into the cabinet, unplug the unit and have it checked by qualified personnel before operating it any further.
- One blade of the plug is wider than the other for the purpose of safety and will fit into the power outlet only one way. If you are unable to insert the plug fully into the outlet, contact your dealer.
- Unplug the unit from the wall outlet if it is not to be used for an extended period of time. To disconnect the cord, pull it out by the plug. Never pull the cord itself.

On installation

- Allow adequate air circulation to prevent internal heat build-up.
- Do not place the unit on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation slots.
- Do not install the unit near heat sources such as radiators or air ducts or in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.
- The unit is designed for operation in a horizontal position. Do not install it in an inclined position.
- Keep the unit and cassette tapes away from equipment with strong magnets, as for example a microwave oven or a large loudspeaker.
- Do not place any heavy object on the unit.

On operation

- When the unit is not in use, turn off the power to conserve energy and to extend its useful life.
- Remove and store video cassettes after recording or playback.
- Store the cassettes in their cases and keep them in an upright position to prevent intrusion of dust and uneven winding.

On cleaning

Clean the cabinet, panel and controls with a soft dry cloth, or a soft cloth lightly moistened with a mild detergent solution. Do not use any type of solvent, such as alcohol or benzene which might damage the finish.

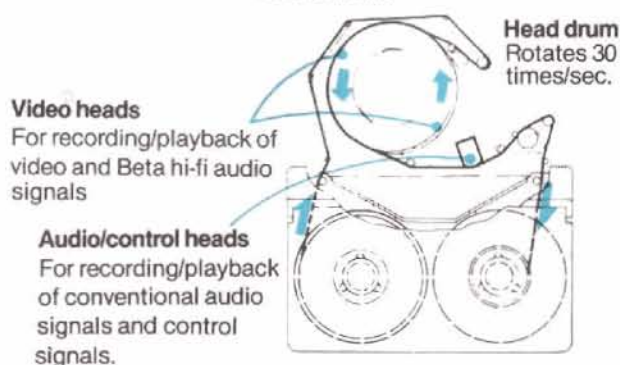
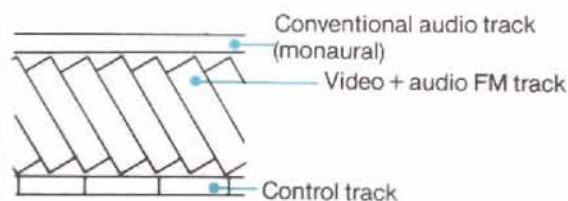
On repacking

Do not throw away the carton and packing materials. They make an ideal container in which to transport the unit. When shipping the unit to another location, repack it as illustrated on the carton.

WHAT IS BETA HI-FI RECORDING?

In conventional recording, audio signals are recorded on the audio track and video signals on the video track. In Beta hi-fi recording, audio signals are recorded on the video track together with the video signals using 2 rotary video heads. The Beta hi-fi audio signals are frequency-modulated and recorded on 2 channels, so that you can record a stereo program with sound quality far superior to that of the conventional audio recording.

Beta hi-fi recording pattern on the video tape

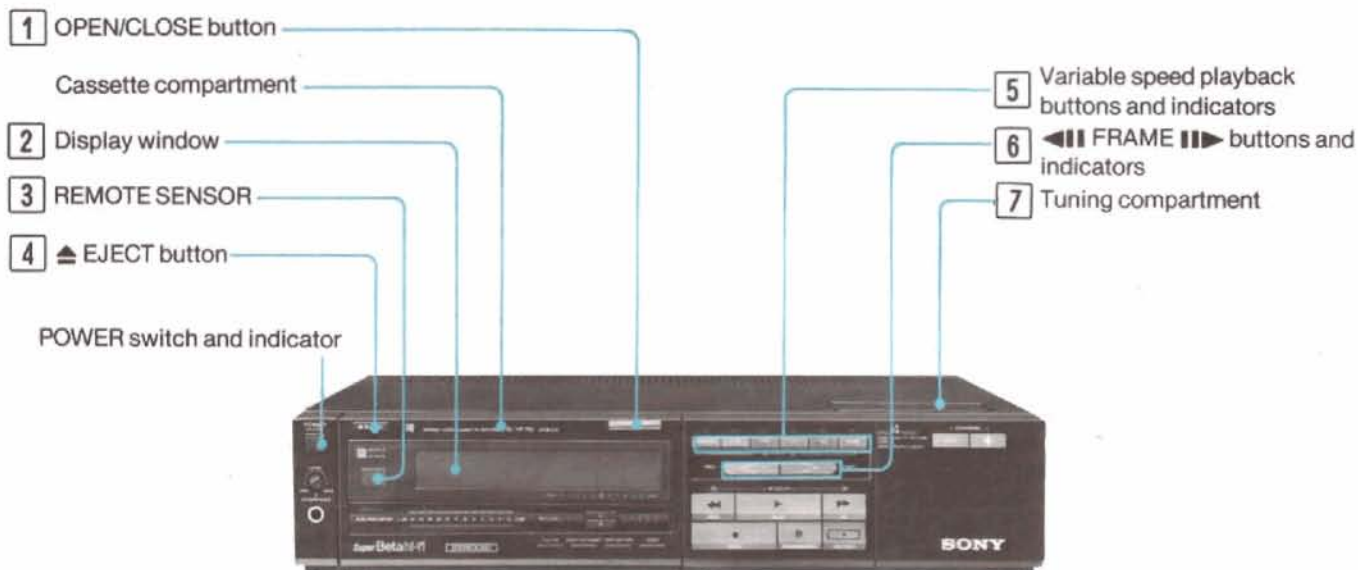


When the BETA HI-FI switch is set to ON, this recorder records audio signals on the video track (Beta hi-fi recording) and on the conventional audio track at the same time, so that these tapes can also be played back on any ordinary video cassette recorder without a Beta hi-fi system.

LOCATION AND FUNCTION OF CONTROLS

For details on the use of each control, refer to the pages indicated in the black circles (●).

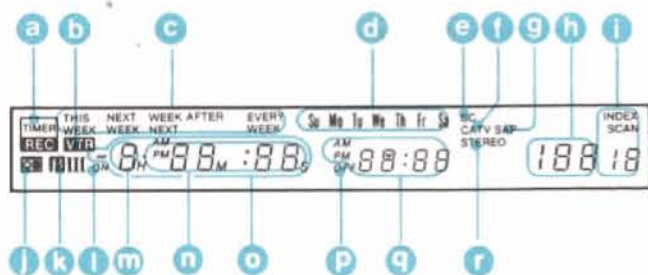
Front



1 OPEN/CLOSE button

Press to slide out the cassette compartment. Press again to slide in the cassette compartment.

2 Display window



- e TIMER REC indicator
- b VTR indicator
- c Week indicator
- d Day of the week indicator
- e SC (simulcast) indicator
- f CATV (cable TV) indicator
- g SAP (Second Audio Program) indicator
- h Channel number
- i INDEX indicators
- j Cassette indicator
- k Tape speed indicator
- l Turn-on time setting indicator
- m Timer program position
- n Turn-on time of a timer recording
- o Tape counter
- p Turn-off time setting indicator
- q Turn-off time of a timer recording
- r STEREO indicator

3 REMOTE SENSOR

Detects the signals transmitted from the Remote Commander.

4 EJECT button

Press to eject the cassette.

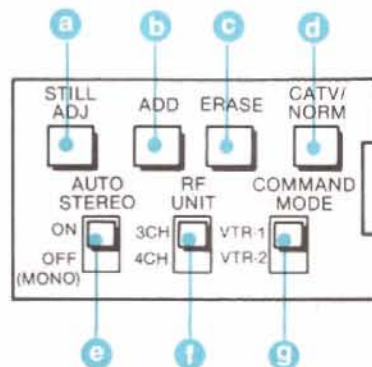
5 Variable speed playback buttons and indicators 14

STILL, 1/10, 1/5, X1, X2, SCAN

6 FRAME buttons and indicators 14

REV < (reverse), > FWD (forward)

7 Tuning compartment



a STILL ADJ (adjust) button 14

b ADD button 37

c ERASE button 37

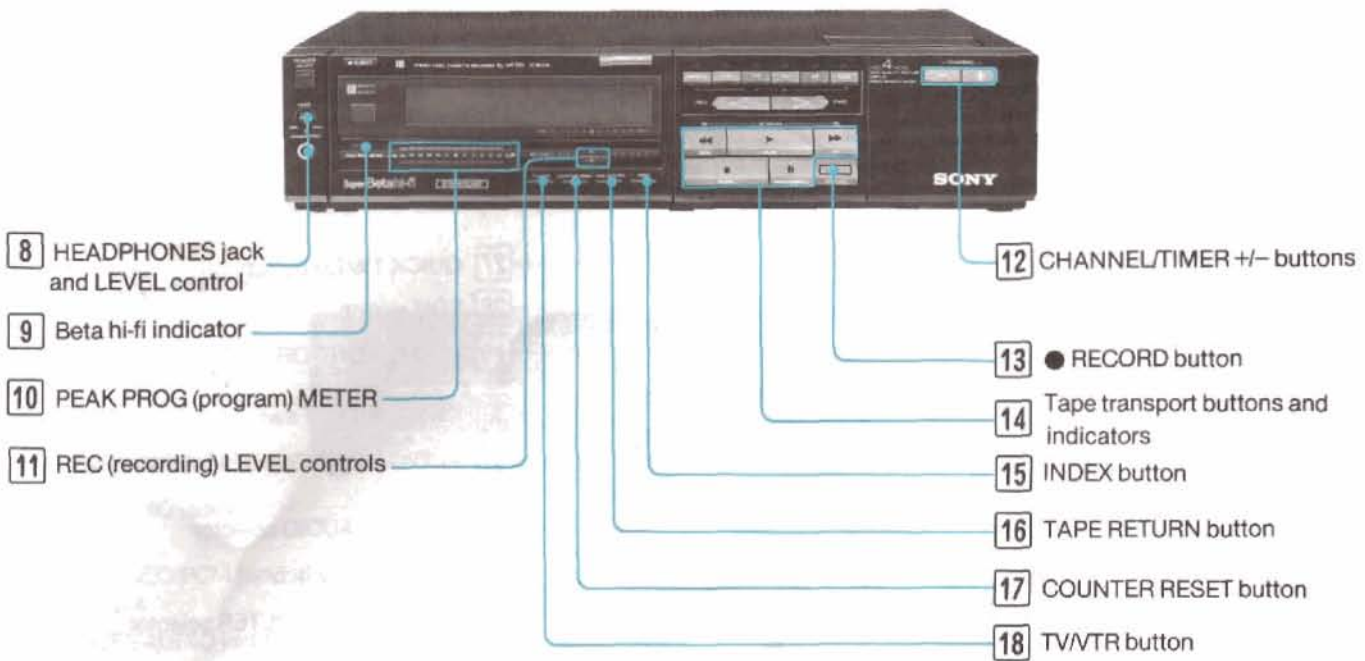
d CATV/NORM (normal) button 37

e AUTO STEREO switch

Normally set to ON. When the signal is weak on a particular channel, set to OFF.

f RF UNIT selector 36

g COMMAND MODE selector 16



8 HEADPHONES jack and LEVEL control

Connect stereo headphones (with stereo phone jack) to the HEADPHONES jack. The volume can be adjusted with the LEVEL control.

9 Beta hi-fi indicator

Lights during recording with the BETA HI-FI switch set to ON. When playing back a Beta hi-fi recorded tape, the indicator lights regardless of the position of the BETA HI-FI switch.

10 PEAK PROG METER

Shows the peak input levels of the right and left channels during Beta hi-fi recording, and recorded levels during playback.

11 REC LEVEL controls

Used to adjust the recording level when the BETA HI-FI switch is set to ON. Normally keep at the center detent position **5**.

12 CHANNEL/TIMER +/- buttons

Press to select the channel and to set the clock or timer program.

13 RECORD button

Press to start recording.

14 Tape transport buttons and indicators

◀◀ REW (rewind), ▶▶ PLAY, ▶▶▶ FF (fast forward), ■ STOP, || PAUSE, ▶▶▶ STILL

15 INDEX button

Used for the index scan or index search operation.

16 TAPE RETURN button

In stop mode, press to advance or rewind the tape approximately to the counter "0H00M00S" point.

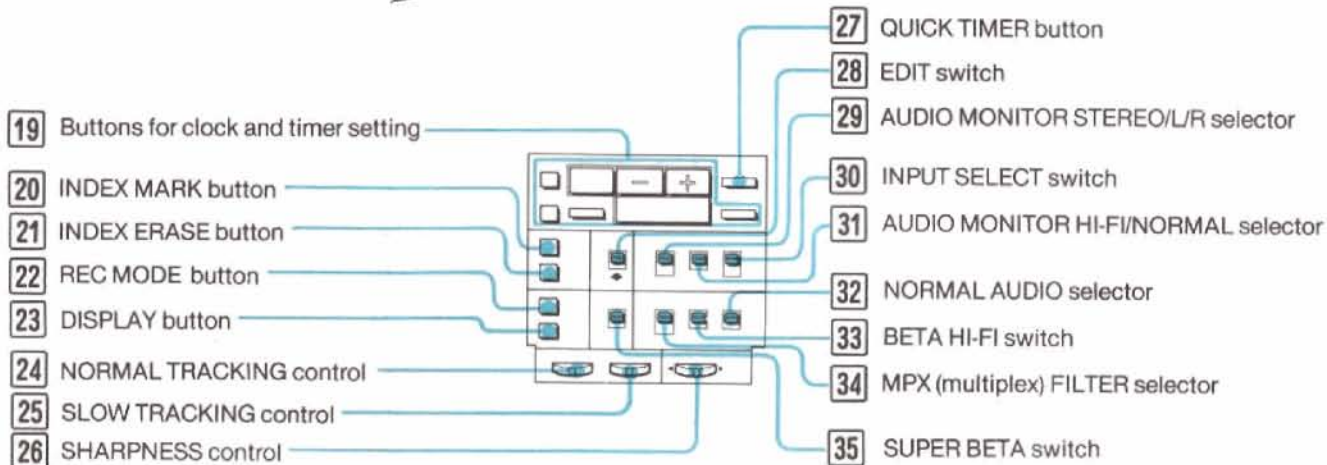
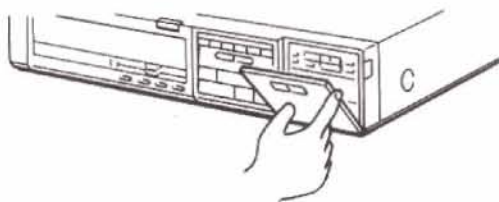
17 COUNTER RESET button

Press to reset the tape counter to "0H00M00S".

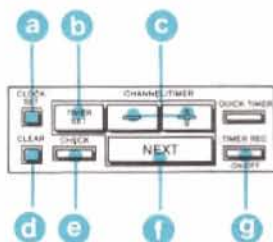
18 TV/VTR button

Press to view the program selected on the recorder. The VTR indicator appears in the display window. (The VTR indicator appears automatically when the ▶▶▶ PLAY button is pressed.) To view a different TV program while recording another, press this button again. The VTR indicator disappears.

Inside the front panel



19 Buttons for clock and timer setting



- a CLOCK SET button:** Press to start the setting of the current time.
- b TIMER SET button:** Press to start the setting of timer programs.
- c CHANNEL/TIMER +/- buttons:** Press to set the clock or timer program and to select the channel.
- d CLEAR button:** Press to clear the timer setting.
- e CHECK button:** Press to check the timer settings.
- f NEXT button:** Press to advance to the next item to be set during clock or timer setting.
- g TIMER REC button:** Press to activate timer recording.

20 INDEX MARK button

Press to mark an index signal at the desired point during recording or playback.

21 INDEX ERASE button

To erase a pre-recorded index signal, locate the index signal and press this button.

22 REC MODE button

Used to select the recording speed: **I**, **II** or **III**.

23 DISPLAY button

Used to turn on and off the on-screen display.

24 NORMAL TRACKING control

Normally keep at the center detent position. Turn to obtain the best possible picture if streaks or snow appears during normal playback.

25 SLOW TRACKING control

Normally keep at the center detent position. Turn if a noise band appears in the freeze picture or slow motion picture.

26 SHARPNESS control

Used to adjust the sharpness of the picture if necessary. Normally set the control at the center detent position.

27 QUICK TIMER button

Press to activate the quick timer.

28 EDIT switch

Normally keep at the upper position. When editing a tape, set to the lower position. The edited picture quality will be improved.

29 AUDIO MONITOR STEREO/L/R selector

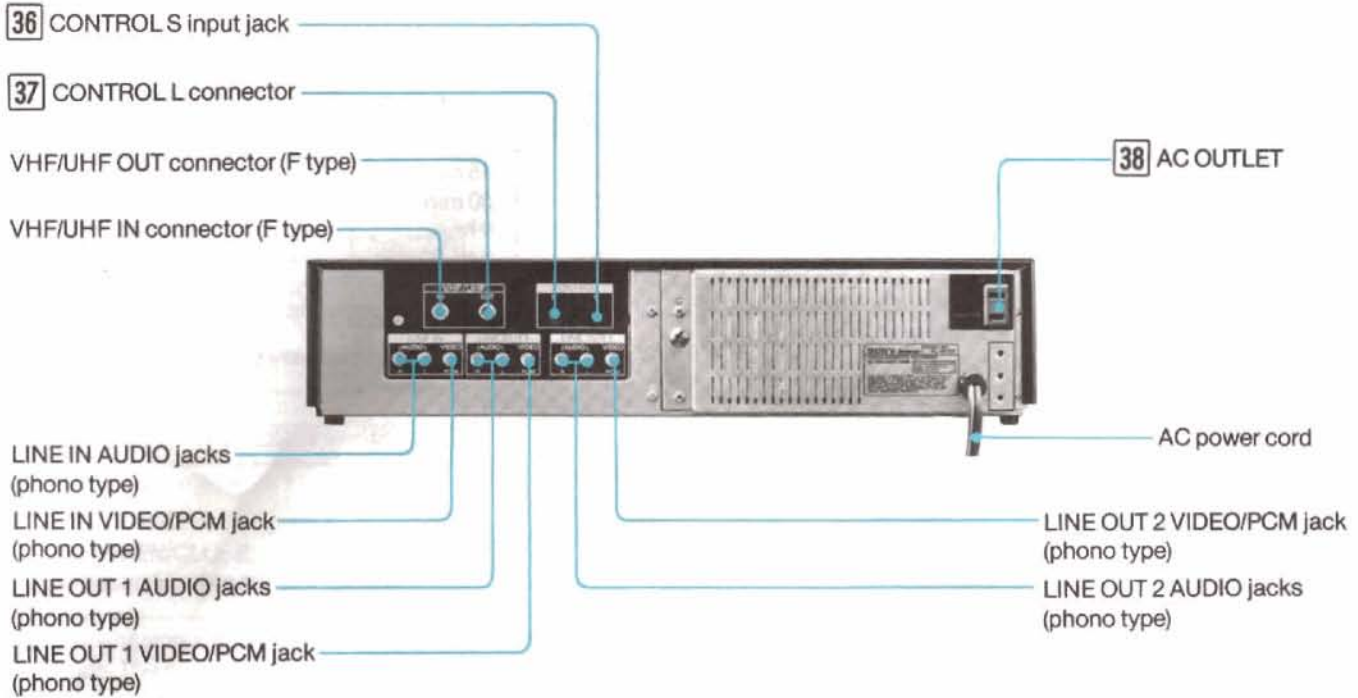
Select the channel(s) of the Beta hi-fi sound to be monitored.

STEREO: Normally set to this position.

L: To monitor the L (left) channel of a stereo program

R: To monitor the R (right) channel of a stereo program

Rear



30 INPUT SELECT switch

Select the program to be recorded.
TUNER: To record TV programs
SIMULCAST: To record the sound from the LINE IN AUDIO jacks and the picture of a TV program (FM simulcast recording)
LINE/PCM: To record signals from the LINE IN VIDEO/PCM and AUDIO jacks

31 AUDIO MONITOR HI-FI/NORMAL selector

Select the sound to be monitored.
HI-FI: Normally set to this position.
NORMAL: To monitor the sound recorded on the conventional audio track

32 NORMAL AUDIO selector

Select the sound to be recorded on the conventional audio track. Normally set to MAIN. To record SAP sound, set to SAP.

33 BETA HI-FI switch

ON: Normally set to this position. Recording will be carried out in Beta hi-fi system.
OFF: Set to this position to record only in the conventional system.

34 MPX FILTER selector

OFF: Normally set to this position.
ON: For recording FM broadcast programs (If your FM tuner has an internal MPX filter, set this selector to OFF.)
PCM: For PCM recording

35 SUPER BETA switch **I**

Normally keep this switch at ON.

36 CONTROL S input jack (minijack) **29**

Connect to the CONTROL S output jack of other Sony products for various system operations.

37 CONTROL L connector (5 pin) **31**

Connect to the CONTROL L connector of other Sony products for various system operations.

38 AC OUTLET (unswitched)

Supplies AC power to video or audio equipment with power consumption of under 400 watts.
 • Do not connect here any electrical home appliances whose power consumption exceeds 400 watts, such as an electric iron or fan.

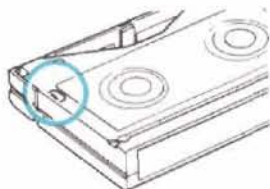
HANDLING THE VIDEO CASSETTES

Safety tab

The safety tab on the rear of the cassette should not be removed for recording. When a new recording is made on a pre-recorded cassette, the previous recording will be erased automatically.

To avoid erasing a recording, break off the safety tab using a screwdriver or similar object.

If you cover the opening with a piece of plastic tape, where the safety tab has been removed, you can re-record on the cassette.



If you activate ● RECORD or TIMER REC when the inserted cassette has its safety tab removed, the cassette will be automatically ejected.

Recording time available in each mode

By selecting the recording speed, **Ⓛ**I s **Ⓛ**II or **Ⓛ**III, with the REC MODE button, you can decide the recording time.

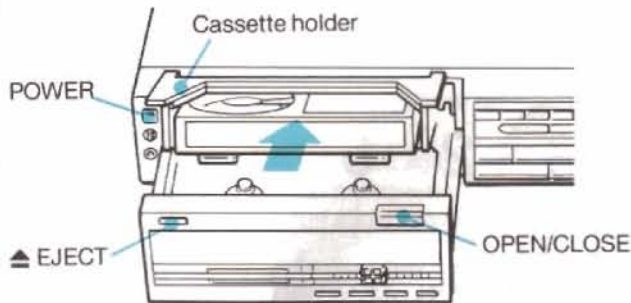
Cassette used	Ⓛ I s mode	Ⓛ II mode	Ⓛ III mode
L-125	15 min.	30 min.	45 min.
L-250	30 min.	1 hr.	1 hr. 30 min.
L-500	1 hr.	2 hr.	3 hr.
L-750	1 hr. 30 min.	3 hr.	4 hr. 30 min.
L-830	1 hr. 40 min.	3 hr. 20 min.	5 hr.

The playback speed is automatically set.

CASSETTE INSERTION

Make sure that you have finished all the connections and adjustments on pages 31 through 38.

- 1 Press POWER.
- 2 Press ▲ EJECT.
The cassette compartment slides out and the cassette holder is raised.
- 3 Insert a cassette with the arrow on the cassette toward the front.



- 4 Press OPEN/CLOSE.
The cassette compartment slides in.

- In place of step 4, you may press any of the tape transport buttons. The cassette compartment slides in and the recorder directly goes into the selected tape operation mode.
- The power can be automatically turned on without pressing POWER when ▲ EJECT is pressed.

Notes on the cassette compartment

- Be careful not to trap your hand between the cassette compartment and the cabinet when the compartment is moving. If you should do so, the cassette compartment will automatically stop and move in the opposite direction in several seconds.
- Do not insert anything other than a cassette inside the cassette holder and compartment.
- Do not push down on the cassette holder forcibly when it is raised. If excessive force is applied, the protective device is activated to stop the cassette compartment movement and recorder operation. In this case, press OPEN/CLOSE.
- Frequent moving of the cassette compartment during recording is not recommended, since this may affect the recording.

To eject the cassette

Press ▲ EJECT. The cassette compartment slides out and the cassette holder is raised. Take out the cassette by hand.

Notes

- The ▲ EJECT button functions even if the recorder is turned off.
- The ▲ EJECT button does not function during recording.

To open/close the cassette compartment

Press OPEN/CLOSE. The cassette compartment slides out whether the tape is running or not. This allows check of the remaining tape amount.

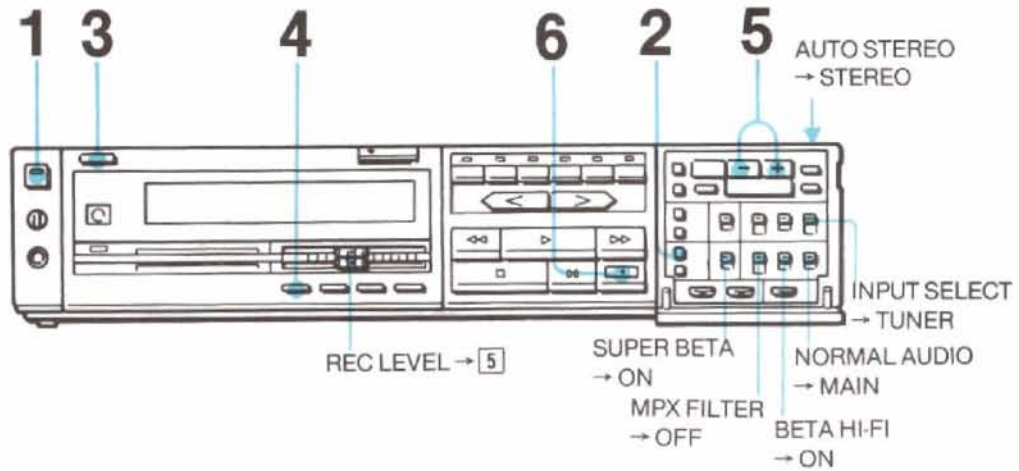
RECORDING TV PROGRAMS (Beta hi-fi recording)

Caution

Television programs, films, video tapes and other materials may be copyrighted. Unauthorized recording of such material may be contrary to the provisions of the copyright laws.

Also, use of this recorder with cable television transmission may require authorization from the cable television transmitter and/or program owner.

OPERATION

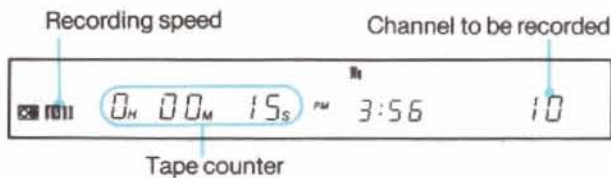


Check before recording

- Turn on the TV and select the channel for the recorder.
- Check the positions of the selectors.

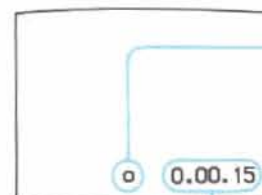
- 1 Turn on the power.
- 2 Select the recording speed with REC MODE.
- 3 Insert a cassette.
- 4 Press TV/VTR to select the VTR mode.
- 5 Select the channel to be recorded with CHANNEL/TIMER +/-.
- 6 Press ● RECORD. Recording will begin.

Check in the display window



Check on the monitor screen

If the display does not appear, press DISPLAY inside the front panel or on the Commander.



- : Displayed for several seconds when ● RECORD is pressed.
- ||: Recording pause mode

0.00.00: Tape counter
10: Channel number
Displayed for several seconds

To stop recording, press ■ STOP.

When the tape reaches its end, it will be rewound to the beginning.

To eject the cassette, press ▲ EJECT.

To turn off the power, press POWER.

If the cassette compartment is open, it will be closed automatically and then the power will be turned off.

To stop the tape momentarily

Press ■ PAUSE. The TV program can still be seen on the TV, but the picture will not be recorded.

To resume recording, press ■ PAUSE again.

To protect the video heads and the tape, the pause mode will be automatically released after about 8 minutes and recording will stop.

In case you want to record a tape which is to be played back on another recorder from the very beginning of the tape, run the tape for about 15 seconds before starting recording. Otherwise you may miss the starting point during playback on the other machine.

NOTE

SUPER BETA SWITCH

For recording

- Set to ON to make high picture quality recordings.
- Set to OFF if you intend to play back the tape on a non-SuperBeta VCR. A tape recorded with the SUPER BETA switch set to ON (in **II**/**III** mode) may cause some over-modulation noise when played back on a non-SuperBeta VCR.
- **II**s recording produces a high quality picture as in SuperBeta recording regardless of the SUPER BETA switch position. A **II**s-recorded tape may not be played back on a non-SuperBeta VCR with a **II** playback function.

For playback

- Normally set to the position in which the tape was recorded.
- Set to ON if the tape was recorded in the **II**s mode.
- Set to OFF if the tape was recorded in the **II** mode, or if the tape was recorded on a non-SuperBeta VCR.

TO START RECORDING FROM A PARTICULAR POINT

You can decide the starting point for recording while watching the picture.

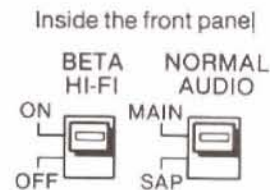
- 1 Locate the point where you wish to start recording on the tape by playing back the tape or using the Betascan or the Beta SkipScan function.
- 2 Press ■ PAUSE to stop the tape where you wish to start recording.
- 3 Press ● RECORD. The recorder will enter recording pause mode.
- 4 Press ■ PAUSE at the desired point to release the pause mode. Recording will begin.

TO RECORD MULTICHANNEL TV SOUND (MTS) BROADCASTS (STEREOCASTS)

In the years to come, an increasing number of programs will be broadcasted in stereo. Called Multichannel TV Sound or MTS, the new technology will greatly enhance TV viewing by bringing you programs with high fidelity stereo sound.

MTS also provides for an extra channel called the Second Audio Program or SAP which broadcasters can use to transmit a second language for bilingual transmissions or any other sound track.

- Make sure AUTO STEREO in the tuning compartment is set to ON.
- The recording procedure is the same as usual.



To record a stereo broadcast

Set BETA HI-FI to ON. When the STEREO indicator lights up, a stereo broadcast is being received.

To record a SAP (Second Audio Program) broadcast

Set NORMAL AUDIO to SAP. The SAP indicator will light up. If recording is made when there is a SAP broadcast, the SAP sound will be recorded on the conventional audio track while the MAIN sound is recorded on the video track in Beta hi-fi. To listen to the SAP sound, set AUDIO MONITOR HI-FI/NORMAL to NORMAL.

To record a MAIN broadcast only

Set NORMAL AUDIO to MAIN. The MAIN sound will be recorded on the video track and the conventional audio track.

Note

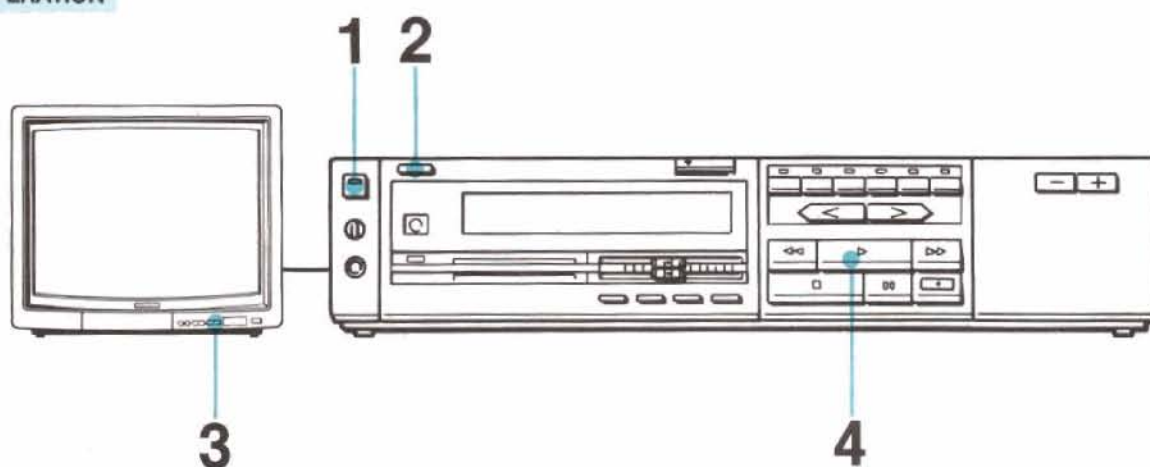
When a SAP sound is not to be recorded, be sure to set NORMAL AUDIO to MAIN. If it is set to SAP and there is no SAP broadcast, no sound is recorded on the conventional audio track.

TO VIEW ONE TV PROGRAM WHILE RECORDING ANOTHER

Press TV/VTR so that the VTR indicator disappears from the display window. Select the channel you want to view on the TV.

PLAYBACK

OPERATION

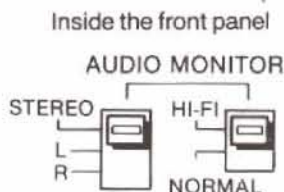


- 1 Turn on the power.
- 2 Insert a cassette.
- 3 Turn on the TV and select the channel for the recorder.
- 4 Press ► PLAY.

Notes

- If you are playing back a tape that was recorded on another VCR, noise (if any) in the picture may be eliminated by setting SUPER BETA to OFF. Normally, keep this switch at ON.
- To change to channel 3 or 2 on your TV from the channel on which you have been viewing something from the video recorder, be sure to press TV/VTR first and then change to channel 3 or 2 on your TV. If TV/VTR is pressed after channel 3 or 2 is set on your TV, you might not get a picture. In this case, change your TV channel to another channel and then come back to channel 3 or 2.

TO SELECT THE MONITOR SOUND



Playback of Beta hi-fi stereo sound programs

Set AUDIO MONITOR to HI-FI and to STEREO. When the recorder is connected to a Component TV, a stereo system or stereo headphones, you can enjoy stereo sound reproduction.

When a conventional (monaural) TV is connected, the sound of the left and right channels are mixed so that monaural sound comes from the TV speaker.

To select the left or right channel of stereo programs

Set AUDIO MONITOR to HI-FI and to L or R. Select the position L (left) or R (right) according to the channel you wish to listen to.

Playback of SAP sound

To listen to the SAP sound that was recorded with NORMAL AUDIO set to SAP, set AUDIO MONITOR HI-FI/NORMAL to NORMAL.

VARIOUS PLAYBACK MODES

WHEN YOU PLAY BACK A TAPE RECORDED ON ANOTHER VCR

- If the VCR on which the tape was recorded is not equipped with the Beta hi-fi system, the recorder will play back the tape in the conventional way.
- If streaks or snow appears, adjust NORMAL TRACKING for the best possible picture. Return the control to the center position after viewing that tape.
- To get a sharp picture, turn SHARPNESS toward SHARP.

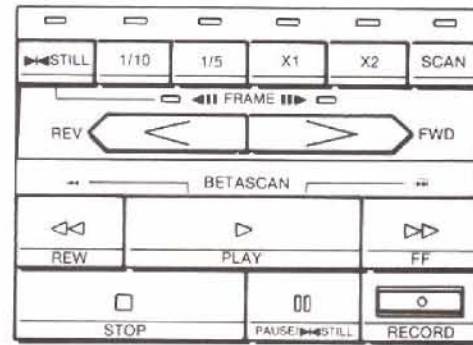
Inside the front panel



AUTO PLAY

— To play back a tape from the beginning of the tape after rewinding

Press ► PLAY, keeping the ◀◀ REW depressed. After the tape is completely rewound, it will be automatically played back.



BETASCAN

— Viewing the picture at a fast speed to find a particular scene

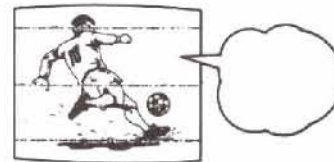
Keep pressing ►► FF or ◀◀ REW during playback. When you release the button, normal playback will be resumed.

BETA SKIPSCAN

— Viewing the picture momentarily during fast-forward or rewind

Keep pressing ►► FF or ◀◀ REW during fast-forward or rewind mode. When you release the button, the fast-forward or rewind mode will be resumed.

Streaks will appear and sound will be muted in the Betascan and Beta SkipScan pictures.

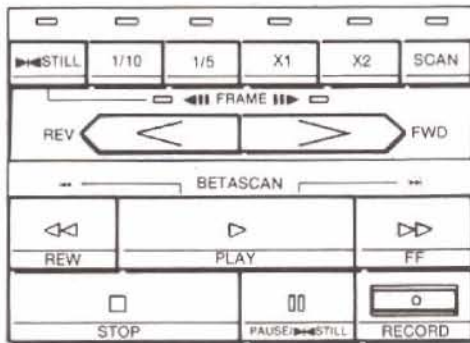


FREEZE PICTURE (playback pause)

Press PAUSE |||/STILL ►◄ during playback (in normal or slow mode). The sound is muted.

Press PAUSE |||/STILL ►◄ again or press ► PLAY to resume normal playback.

To protect the video heads and the tape, the pause mode will be automatically released after about 8 minutes and playback will be resumed.



STOP-ACTION ADVANCE PICTURE

Press > FWD (forward) or < REV (reverse) in freeze picture mode.

Press ► PLAY to resume normal playback.

VARIABLE SPEED PICTURE

Press the desired speed button during playback or in freeze picture mode. The sound is muted (except in x1 and x2 forward picture).

- ▶◀ STILL: freeze picture
- 1/10: slow motion picture at 1/10 normal speed
- 1/5: slow motion picture at 1/5 normal speed
- x1: normal speed picture
- x2: double speed picture*
- SCAN: continuous Betascan picture

* The x2 button will not function for tapes recorded in the **101** or **101s** mode, though the indicator on the button lights when the button is pressed.

To reverse the direction of the variable speed playback, press REV <. To resume forward playback, press > FWD.

To change the playback speed, simply press the desired speed button.

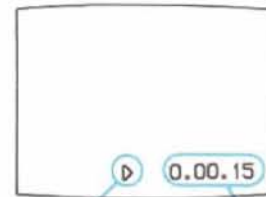
To resume normal playback, press ► PLAY.

TO OBTAIN BETTER PLAYBACK PICTURE

— in variable playback modes

- **If the freeze picture appears to shake...**
Press STILL ADJ in the tuning compartment until the picture stabilizes.
As long as the same TV or color monitor is used, readjustment should not be necessary.
- **If streaks or noise bands appear in freeze, stop-action advance, or 1/10 or 1/5 speed forward picture...**
Adjust SLOW TRACKING inside the front panel.
- **If streaks or noise bands appear in normal (x1) or double speed (x2) forward picture...**
Adjust NORMAL TRACKING inside the front panel.

Check on the monitor screen (in various playback modes)
If the display does not appear, press DISPLAY inside the front panel or on the Commander.



Tape operation mode indicator

Tape counter

Tape operation mode indicators

- ▶ Playback
 - ◀◀ Rewind
 - ▶▶ Fast-forward
 - ▶|◀ Freeze picture
 - (◀◀) Reverse Betascan and Beta Skipscan
 - (▶▶) Forward Betascan and Beta Skipscan
 - |▶ Stop-action advance picture
 - X2 -X2
 - X1 -X1
 - 1/5 -1/5
 - 1/10 -1/10
- Variable speed playback
"—" indicates the reverse direction.

The tape operation mode indicators will disappear in several seconds.

USE OF THE TAPE COUNTER

The tape counter indicates the approximate running time of the tape and the relative position of programs on the tape.

TO INDEX THE TAPE CONTENTS

Before starting recording or playback, press COUNTER RESET to set the counter to "0h00m00s". By noting the counter reading at the desired point, you can easily find that point later by referring to the counter. Use the label on the cassette to list the programs and their counter readings.



Notes

- The counter reading is automatically reset to zero when a cassette is newly inserted.
- The counter reading will be retained in the memory even after the power is turned off, as long as the cassette is in the cassette compartment.
- The counter will not advance during any portion of a tape that is blank or unrecorded.

TAPE RETURN/TAPE RETURN PLAY

— To stop the tape at a particular point or play back from a particular point

- 1 During recording or playback, press COUNTER RESET at the point you want to locate later.
- 2 When recording or playback is finished, stop the tape and press TAPE RETURN. The tape will be rewound or advanced close to the point where the counter reads "0h00m00s".

TAPE RETURN



To start playback automatically from the "0h00m00s" point
Press ► PLAY after pressing TAPE RETURN.

TAPE RETURN



Note

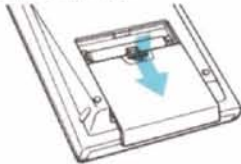
The tape return and tape return play cannot be activated when the counter reading is within $\pm 0h00m10s$.

REMOTE CONTROL OPERATION

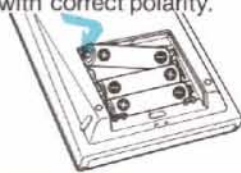
You can control almost all the functions of this video cassette recorder from your armchair using the supplied Remote Commander.

BATTERY INSERTION

1 Open the lid.



2 Insert three size AA (IEC designation R6) batteries with correct polarity.



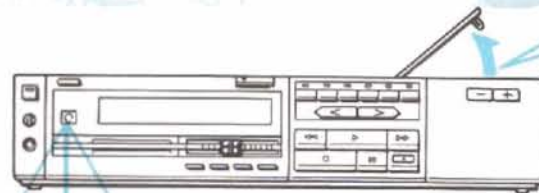
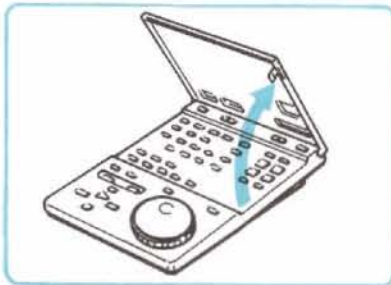
3 Slide and close the lid.

Battery life

In normal operation, batteries will last for about three months. When the batteries are exhausted, the indicator will not light when the buttons on the Commander are pressed.

If the Remote Commander is not to be used for a long period of time, remove the batteries to avoid possible damage caused by battery leakage.

OPERATION



Select COMMAND MODE: VTR-1 or VTR-2

Maximum distance approx. 7 m (23 feet)

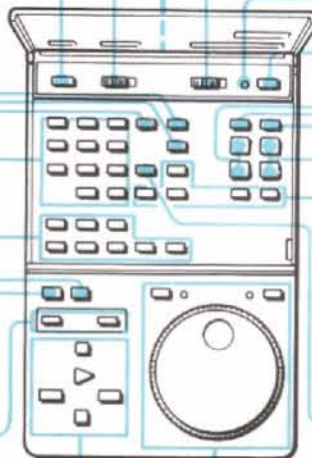
approx. 30°

approx. 30°

Command mode selector
Set to the same position as that on the VCR.

Remote control TV/VTR selector
To operate the VCR, set to VTR.
To operate a TV, set to TV

- DISPLAY button *
- INDEX ERASE button
- COUNTER RESET button
- INDEX MARK button
- 2 Channel number buttons and ENTER button ***
- Variable speed playback buttons
◀◀, ▶▶, ⏮, ⏭, × 1/10, × 1/5, × 1, × 2, SCAN
- TAPE RETURN button
- INDEX button
- 3 ● REC (record) buttons**
- Tape transport buttons
 - ⏸ (pause)
 - ▶ (play)
 - ◀◀ (rewind)
 - ▶▶ (fast-forward)
 - (stop)



- 1 Indicator**
- POWER switch *
- VOL (volume) +/- buttons **
- MUTING button **
- TV/VTR button *
- TIMER/CH (channel) +/- buttons *
- Buttons for timer setting
TIMER REC (timer recording), TIMER CHECK, CLEAR, TIMER SET, NEXT
- QUICK TIMER button

See "Use of the JOG dial and SHUTTLE ring" on page 17.

The buttons and controls other than 1 to 3 will function the same as those on the recorder with a similar name or mark. (Auto play cannot be activated with the Remote Commander.)

1 Indicator

Blinks when any of the buttons on the Commander is pressed. While it is blinking, other buttons do not function.

2 Channel number buttons and ENTER button

Select channels. After pressing the digits of the desired channel one by one, press ENTER.

Ex. Channel 12



3 ● REC buttons

To start recording, press these buttons simultaneously.

Note

Press TAPE RETURN in stop mode. If it is pressed during playback or variable speed playback, the VCR will enter playback pause mode.

Buttons for remote control of Sony TVs

The buttons with "*" mark can be used also to operate certain Sony remote control TVs. The buttons with "***" mark will be used only for those TVs.

To operate a TV, set the remote control TV/VTR selector on the Commander to TV. The functions of the buttons are limited by the functions of the TV.

POWER: Press to turn the power on and off.

MUTING: Press to mute the sound. Press again to restore the sound.

TV/VTR: Press to select the input mode.

VOL +/-: Press "+" for more volume, and "-" for less volume.

TIMER/CH +/-: Select the channel.

DISPLAY: Press to retain or extinguish the display of the channel number, etc. on the TV screen.

Channel number buttons and ENTER: Select the channel.

FOR OWNERS OF OTHER SONY VIDEO EQUIPMENT

To remotely control other equipment, set the command mode selector on the Remote Commander according to command mode of the equipment.

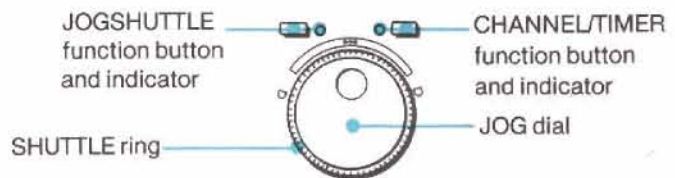
VTR1: Most Sony Betamax infrared remote control VCRs

VTR2: Sony 8 mm format VCRs

To avoid having the SL-HF750 and the other VCR functioning simultaneously

Set the COMMAND MODE selector in the tuning compartment of the SL-HF750 to a different command mode position from the command mode of the other VCR. Simply by switching the VTR1/VTR2 selector on the Remote Commander, you can control two VCRs separately.

USE OF THE JOG DIAL AND SHUTTLE RING



Channel selection

Press the CHANNEL/TIMER function button and turn the JOG dial clockwise to select a higher-numbered channel, and counterclockwise to select a lower-numbered channel.

Timer setting

To set the day of the week, turn-on and turn-off times and channel of a timer program, press the CHANNEL/TIMER function button and turn the JOG dial clockwise to advance the digits, and counterclockwise to reverse them.

Variable speed playback

Using the JOG dial

- 1 Playback a tape.
- 2 Press the JOG SHUTTLE function button. The indicator lights and the picture freezes.
- 3 Turn the JOG dial. The tape will be played back at the speed you are turning the dial. Turn it clockwise for forward playback, or counterclockwise for reverse playback.



Using the SHUTTLE ring

- 1 Playback a tape.
- 2 Press the JOG SHUTTLE function button. The indicator lights and the picture freezes.
- 3 Turn the SHUTTLE ring and hold it at the position where the desired playback speed is obtained. You can select 1/5, normal (x1), double (x2) or continuous Betascan speed. Turn it clockwise for forward playback, or counterclockwise for reverse playback.
- 4 When the SHUTTLE ring is released, the picture will freeze again.



Note

The JOG dial and SHUTTLE ring can be activated when the indicator of the JOGSHUTTLE or CHANNEL/TIMER function button is lit. If the indicator has been turned off, press the corresponding function button again.

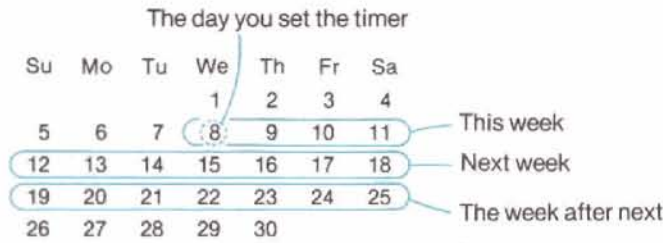
When the JOG dial and SHUTTLE ring are not to be used

Press the CHANNEL/TIMER or JOGSHUTTLE function button to turn off its indicator. This prevents undue battery wear.

The indicator will be turned off automatically if the JOG dial and SHUTTLE ring are not used for more than 1 minute.

TIMER-ACTIVATED RECORDING

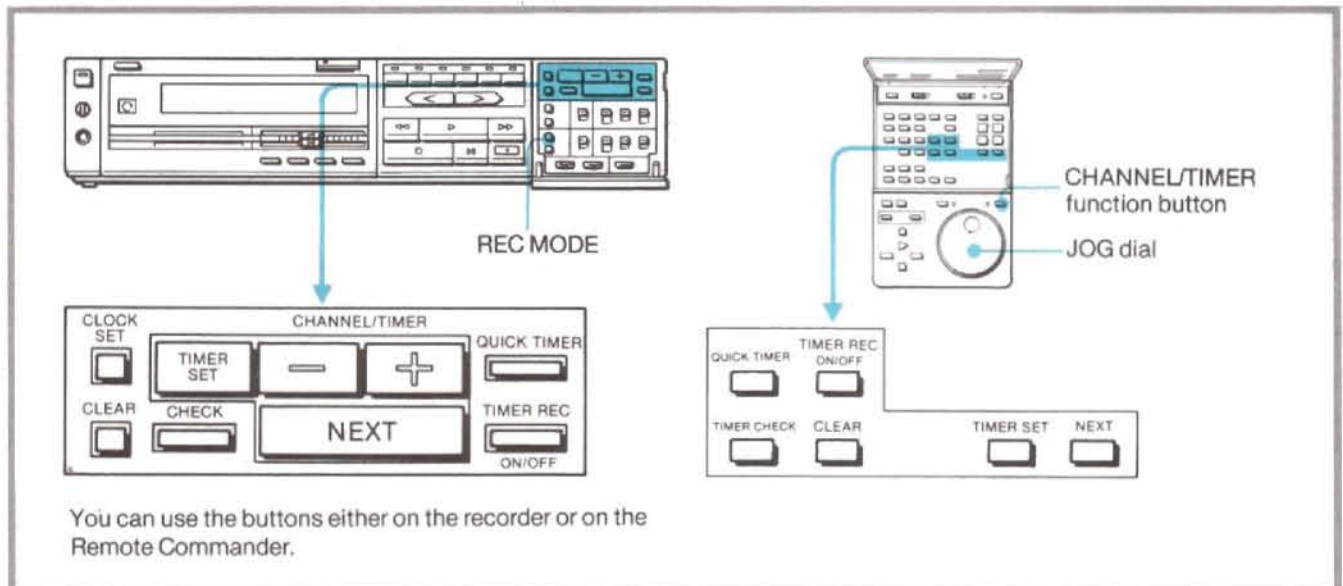
Six recordings can be preset to be made on every day, any day this week, next week or the week after next, or on the same day every week.



Check before setting the timer

- Make sure the cassette tape is long enough to record programs.
- Be sure the safety tab of the cassette has not been removed. —If removed, the cassette will be automatically ejected when TIMER REC is pressed.
- Press POWER to turn the power on.
- Set SUPER BETA to ON.
- Set INPUT SELECT to TUNER for recording TV programs.

The clock must be set to the correct current time. To set the clock, see page 38.



NEXT button

Every time you press the NEXT button, the item to be preset will blink.

CHANNEL/TIMER +/- buttons (or TIMER/CH +/- buttons on the Commander)

To set the day of the week, the turn-on and turn-off times and the channel, press "+" to advance, and "-" to go back.

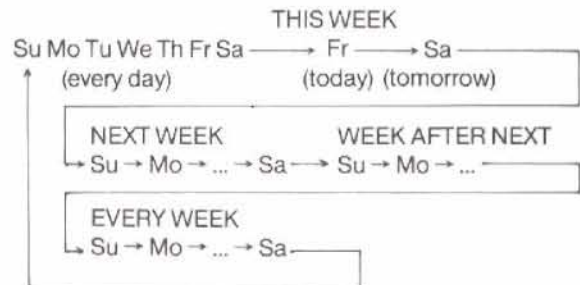
JOG dial

To set the day of the week, the turn-on and turn-off times and the channel, press the CHANNEL/TIMER function button and turn the JOG dial clockwise to advance, and counterclockwise to go back.

Week and day indication in the display window

The week and day indications change in sequence as follows:

Ex. Today is Friday.



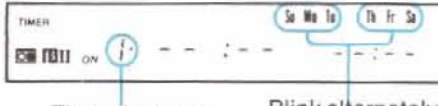
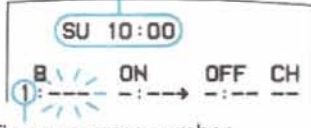
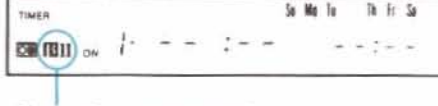

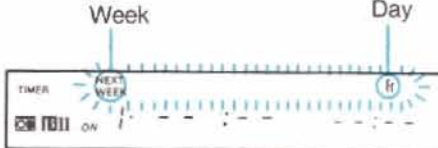


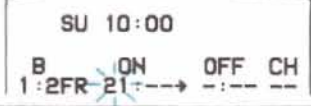

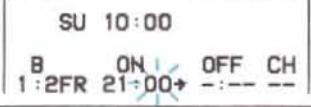

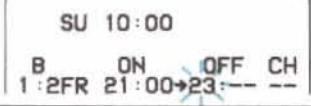

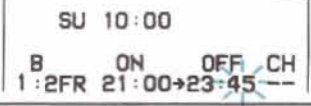
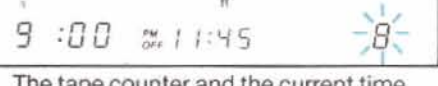
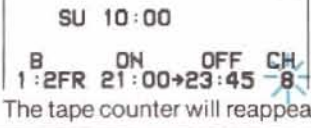

To record at the same time every day, select "Su Mo Tu We Th Fr Sa".

To record at the same time and day every week, select the desired day indication together with "EVERY WEEK".


Week indication on the screen

- | | |
|-----------------|---------------------|
| EVR (every day) | 3 (week after next) |
| 1 (this week) | * (every week) |
| 2 (next week) | |

Suppose you want to make a recording of channel 8 from 9:00 P.M. to 11:45 P.M. on Friday next week.

Operation	Display window	On-screen display
1 Press TIMER SET.	 <p>Timer program number Blink alternately.</p>	Current day and time  <p>Timer program number</p>
2 Select REC MODE.	 <p>Recording tape speed</p>	 <p>Recording tape speed</p>
3 Set the week and day with +/- or JOG. Then press NEXT.		 <p>Week and day</p>
4 Set the turn-on hour with +/- or JOG. AM12:00 = midnight PM12:00 = noon Then press NEXT.		
5 Set the minute with +/- or JOG. Then press NEXT.		
6 Set the turn-off hour with +/- or JOG. Then press NEXT.		
7 Set the minute with +/- or JOG. Then press NEXT.		
8 Set the channel to be recorded with +/- or JOG. Then press NEXT.	 <p>The tape counter and the current time will reappear.</p>	 <p>The tape counter will reappear.</p>
To preset another program, repeat steps 1 to 8. Up to 6 programs can be preset.		
9 Press TIMER REC. The power will be turned off and the recorder will enter the standby mode.	 <p>Appears.</p>	

Recording will start at the preset time and will automatically stop when the recording is completed. The memory of the program except everyday and every week setting will be erased and the timer program numbers will advance one by one.

NOTICE: ONCE THE  INDICATOR HAS BEEN DISPLAYED, only the functions of CHECK and TIMER REC can be activated. To turn on the power again for the usual manual operations, press TIMER REC again so that the indicator goes off.

BEFORE THE TIMER-ACTIVATED RECORDING STARTS

To check the timer settings

Press CHECK.

Every time you press CHECK, each program will be displayed in the display window.

If the DISPLAY button is activated, the list of timer settings will appear on the monitor screen when CHECK is pressed. Every time CHECK is pressed, each timer program number will blink.

SU 10:00			
B	ON	OFF	CH
1	2FR	21:00→23:45	8
2	1FR	0:00→1:00	2
3	3SU	8:00→9:00	2
4	*SA	18:00→19:00	10
5	---	---	---
6	---	---	---

To change the settings

- 1 Press TIMER REC. The TIMER REC indicator goes off.
- 2 Press CHECK to select the program to be changed.
- 3 Press TIMER SET.
- 4 Press NEXT until the item to be changed blinks.
- 5 Change the setting with +/- or JOG.
- 6 Press NEXT so that the tape counter and the current time appear in the display window.
- 7 Press TIMER REC again to reactivate the timer.

To record the entire tape

Set the turn-off time to exactly the same time as the turn-on time. Recording will continue to the end of the tape.

To erase the memory of a particular program

- 1 Press TIMER REC. The TIMER REC indicator goes off.
- 2 Press CHECK to select the program to be erased.
- 3 Press CLEAR. The memory of the program will be eliminated.
- 4 If other programs have been preset for recording, press TIMER REC again to reactivate the timer.

DURING RECORDING

To stop during the timer recording

Press TIMER REC. The recording will stop and the power will be turned off.

When the tape ends during timer recording

The tape stops but the tape will not be rewound to the beginning.

NOTES ON TIMER RECORDING

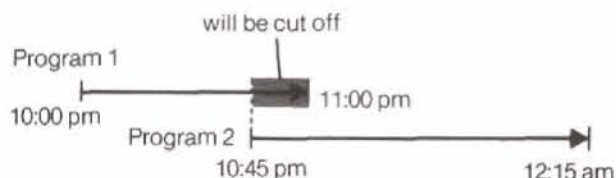
Troubles when TIMER REC is pressed

The cassette will be ejected automatically.	⇒	The cassette inserted has the safety tab removed.
The cassette compartment slides out.	⇒	No cassette is inserted.
TIMER REC indicator blinks and disappears.	⇒	The tape is at its end.

SPECIFIC NOTES ON TIMER-ACTIVATED RECORDINGS

When the presets of your timer-activated recordings overlap

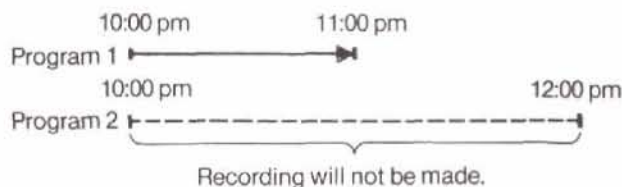
There will be no error indication to inform you of the overlap. Even if there is an overlap, a recording will be made.



The recording of program 2 will begin before program 1 is finished.

If the turn-on time of two programs are the same

The recording of the program having the lower program number will be made. The memory of the program having the higher number will be cleared.



If a power interruption occurs during timer recording and the clock shows "AM 12:00" and blinks

When the recorder was in the standby mode, all the timer settings are erased. Reset the clock and timer setting. When the timer-recording was activated, the recording will stop.

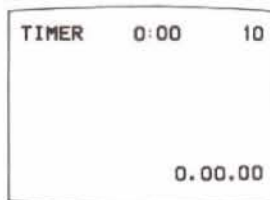
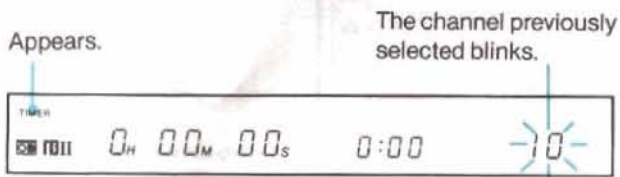
QUICK TIMER RECORDING

Use this function to begin recording a program immediately. You can start timer recording just by pressing QUICK TIMER. The recording duration can be set for up to 5 hours by 30 minutes. You can also use this function to stop the non-timer recording by presetting the recording duration. Before operating, set the clock and press POWER once.

TO USE QUICK TIMER FROM THE TAPE STOP MODE

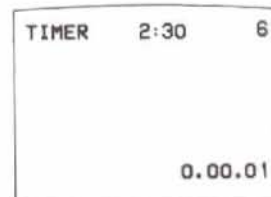
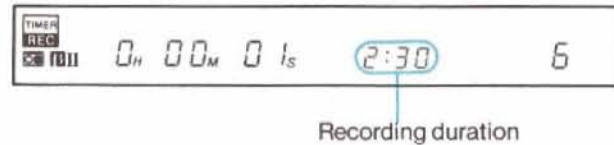
Make sure that the cassette is inserted.

- 1 Press QUICK TIMER.
The power will be turned on, if it was turned off.

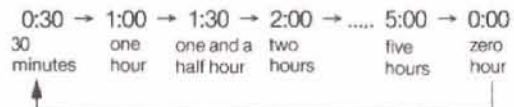


- 2 Choose the channel to be recorded with CHANNEL/TIMER +/-.
If you do not advance to the next step within 30 seconds, the power will be turned off.

- 3 Press QUICK TIMER so that the recording starts.
Now decide the recording duration.



Every time you press QUICK TIMER, the recording duration indication changes as follows:



When the recording starts, the duration indication decreases minute by minute to 0:00 and the power will be turned off automatically about 30 seconds after the recording has finished.

TO USE QUICK TIMER WHILE RECORDING

By pressing QUICK TIMER, you can set the duration so that the recording stops and power turns off after the preset duration.

Once the quick timer recording has started

Only the following function buttons can be activated:
 QUICK TIMER..... to change recording duration
 TIMER REC to interrupt quick timer recording
 PAUSE..... to stop quick timer recording momentarily
 CHECK..... to check timer programs preset

INDEX FUNCTION

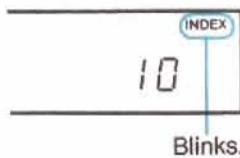
The desired program can be easily located by the index signal marked on the tape.

TO MARK INDEX SIGNALS

An index signal is automatically marked on the tape when ● RECORD is pressed or when a timer recording starts.



While the index signal is being marked.

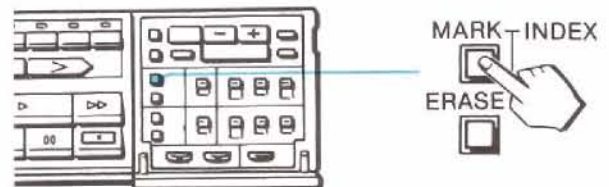


Notes

- Index signals will not be marked on the tape when the recording is started by releasing the recording pause mode.
- The index function operates also with the index signals marked using the index function of other recorders.

Index signals can be marked at any desired point on the tape during recording, timer recording or normal playback.

At the point where an index signal is to be marked, press INDEX MARK.



While the index signal is being marked.



Monitor screen



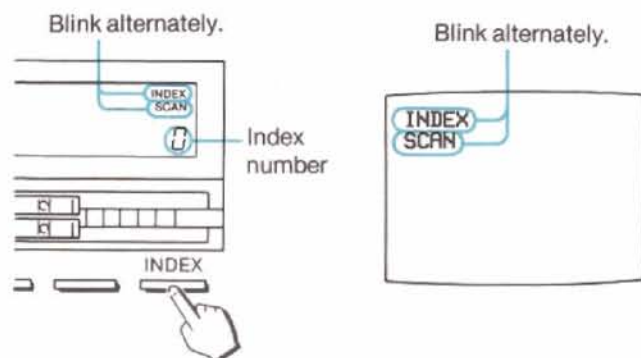
Notes

- The sound will be muted while the index signal is being marked during playback, but the recording will not be affected.
- Index signals can be marked on cassette tapes without a safety tab (including commercially available prerecorded video tapes) during playback.
- An index signal may not be registered immediately before a point on the tape where the recording tape speed (I, II or III) changes.

INDEX SCAN

— To play back the beginning of each program in sequence

- 1 Insert a cassette that has index signals marked.
- 2 Press INDEX once.



- 3 To scan the previous programs, press ◀◀ REW. To scan the programs ahead, press ▶▶ FF. The tape will be rewound or rapidly advanced to the next index signal marked.



The tape will be played back for approximately 10 seconds, and then rewound or rapidly advanced to the next index signal.

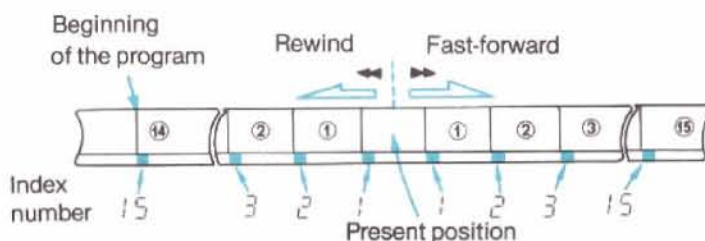
Every time an index signal is detected and playback begins, the displayed index number increases.

- 4 At the desired program, press ▶▶ PLAY. Normal playback of that program will begin.

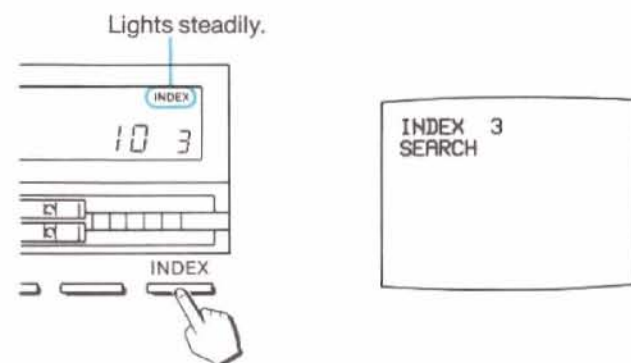
INDEX SEARCH

— To locate the desired program

You can locate the desired program and play it back automatically by designating the number of its index signal. Up to the 15th index signal from the present position on the tape can be located.



- 1 Insert a cassette that has index signals marked.
- 2 Press INDEX several times until the index number of the desired program is displayed. For instance, to locate the second program ahead, two index signals should be detected, so press INDEX until "2" is displayed. On the other hand, to locate the second program behind, three signals should be detected, so press the button until "3" is displayed.



- If you enter an incorrect index number, press ■ STOP to reset the display.

- 3 To locate a previous program on the tape, press ◀◀ REW. To locate a program ahead, press ▶▶ FF.

The tape will be rewound or rapidly advanced. Every time an index signal is detected, the displayed index number will decrease. When the number reaches 0, playback of your desired program will begin.

Notes

- The index function can be activated during playback, as well as from stop mode.
- While the index signals are being scanned or located, there will be no picture or sound.
- If the tape is rewound to the beginning during index scan or index search, playback will begin automatically.
- If the tape reaches the end during index scan or index search, the tape will be rewound automatically.

When the desired program cannot be played back with the index function, check the following:

- The nearest index signal may not have been counted. If the point where you pressed ◀◀ REW or ▶▶ FF is fairly close (within 2 minutes of the normal tape-run) to the nearest index signal, that signal will not be counted. In such a case, designate one number less than the actual number.
- Is there a space of more than 2 minutes between two index signals? If there is more than one index signal marked within an interval of 2 minutes of the normal tape-run, the mechanism may not function properly.

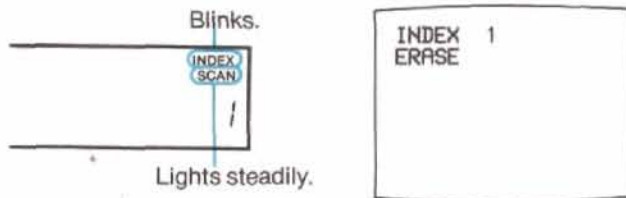
TO ERASE INDEX SIGNALS

Erasing while index scanning—To erase the index signals in sequence

- 1 Stop the tape with ■ STOP.
- 2 Press INDEX once.
- 3 Press ◀ REW or ▶ FF.
The tape will be rewound or rapidly advanced to the next index signal and playback will begin.
- 4 Within approx. 10 seconds, while the tape is being played back, press INDEX ERASE.



While the index signal is being erased

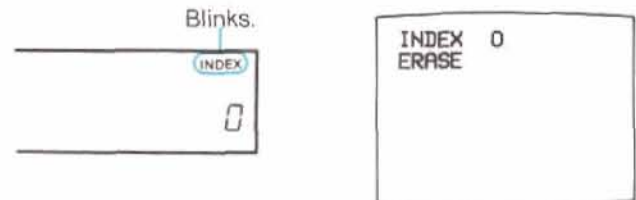


After the erasure, index scan will resume. At each index signal located, press INDEX ERASE.
To stop index scanning, press ■ STOP.

Erasing while index searching—To erase a particular index signal

- 1 Stop the tape with ■ STOP.
- 2 Press the INDEX button several times until the number of the index signal to be erased is displayed.
- 3 Press ◀ REW or ▶ FF.
- 4 Within approx. 10 seconds, while the tape is being played back, press INDEX ERASE.

While the index signal is being erased

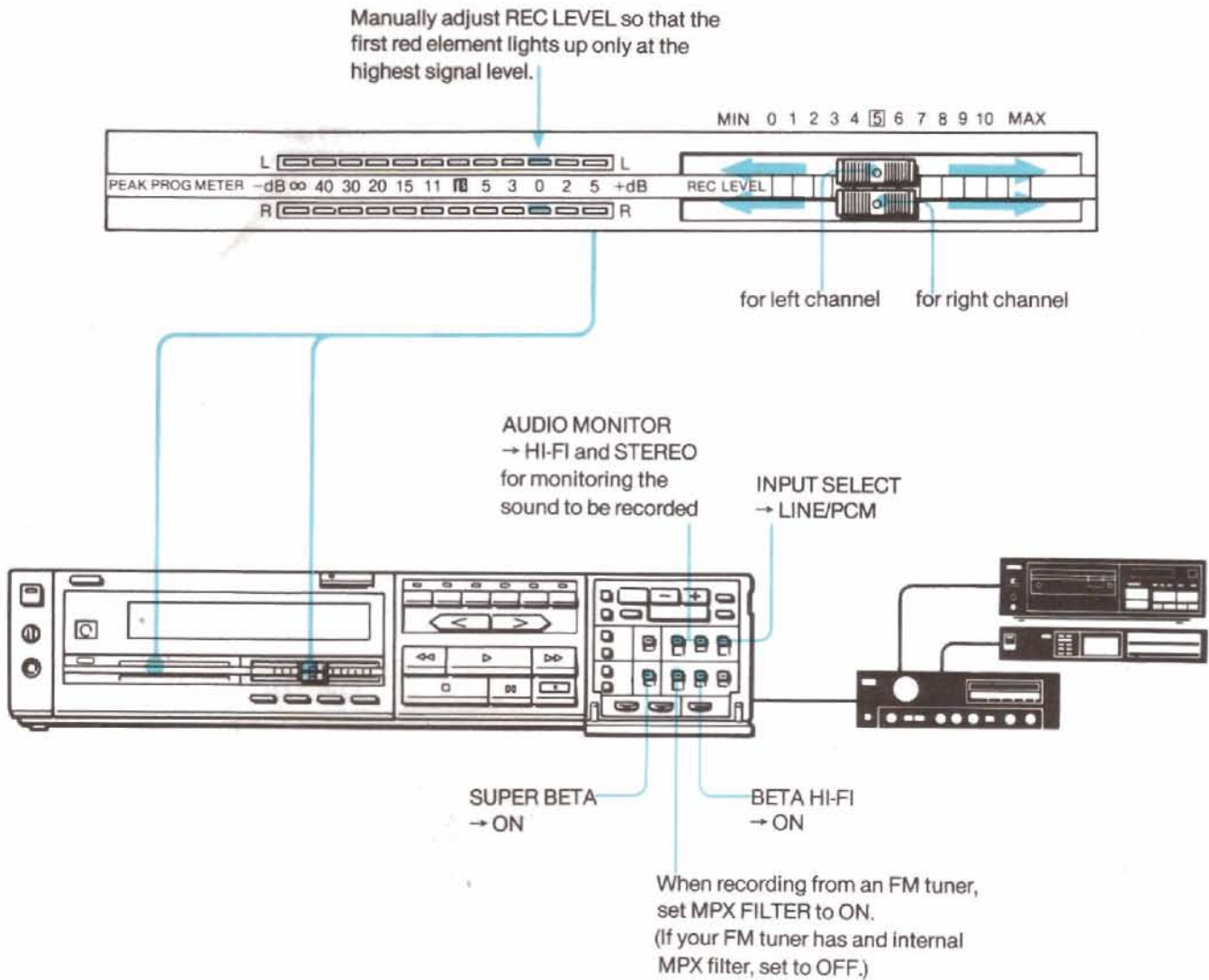


After the erasure, normal playback will begin.

BETA HI-FI AUDIO RECORDING

RECORDING FROM YOUR AUDIO SYSTEM

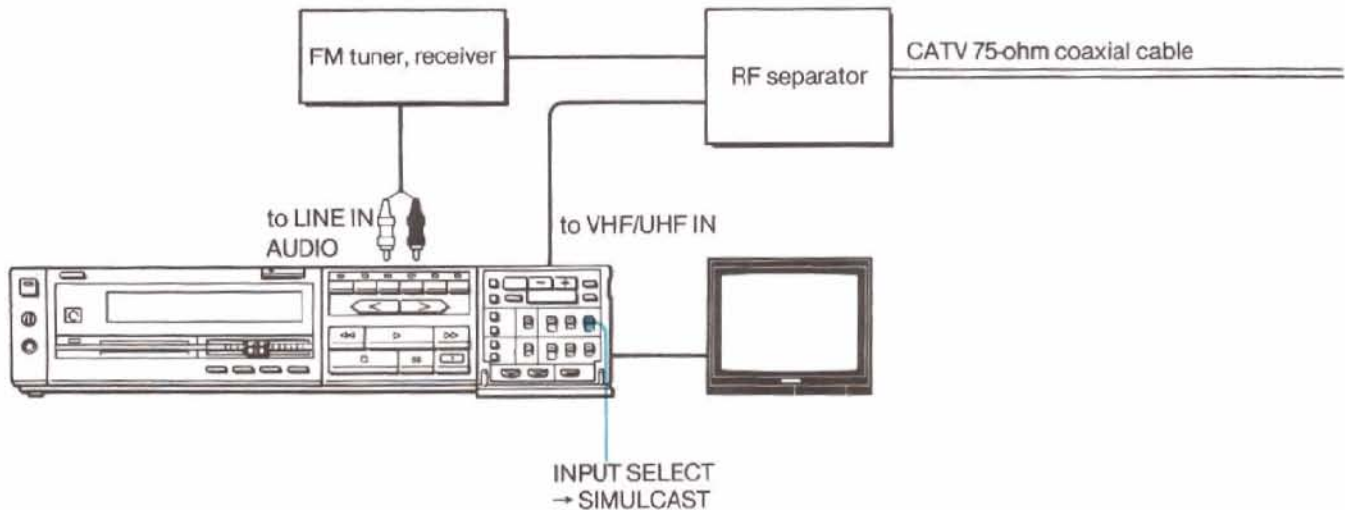
To connect the VCR to your audio system, see page 35.
Set the selectors as shown below. To start recording, insert a cassette and press ● RECORD.



FM SIMULCAST RECORDING

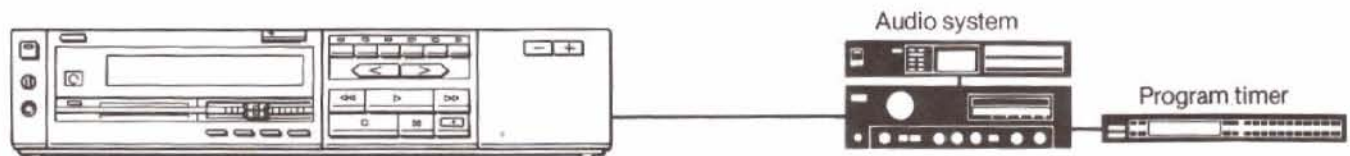
By connecting an FM stereo tuner to the LINE IN AUDIO jacks besides the cable TV cable connection, you can record a cable TV program with stereo sound, such as MTV (music TV), whose audio signals are divided into the FM tuner from the cable.

For FM simulcast recording, set INPUT SELECT to SIMULCAST. The SC indicator appears. Set the other switches and controls as in "RECORDING FROM YOUR AUDIO SYSTEM" on page 25. The picture of the cable TV program and the sound from the FM tuner are recorded on the video track. The sound of the cable TV program is recorded on the conventional audio track.



TIMER-ACTIVATED FM RECORDING

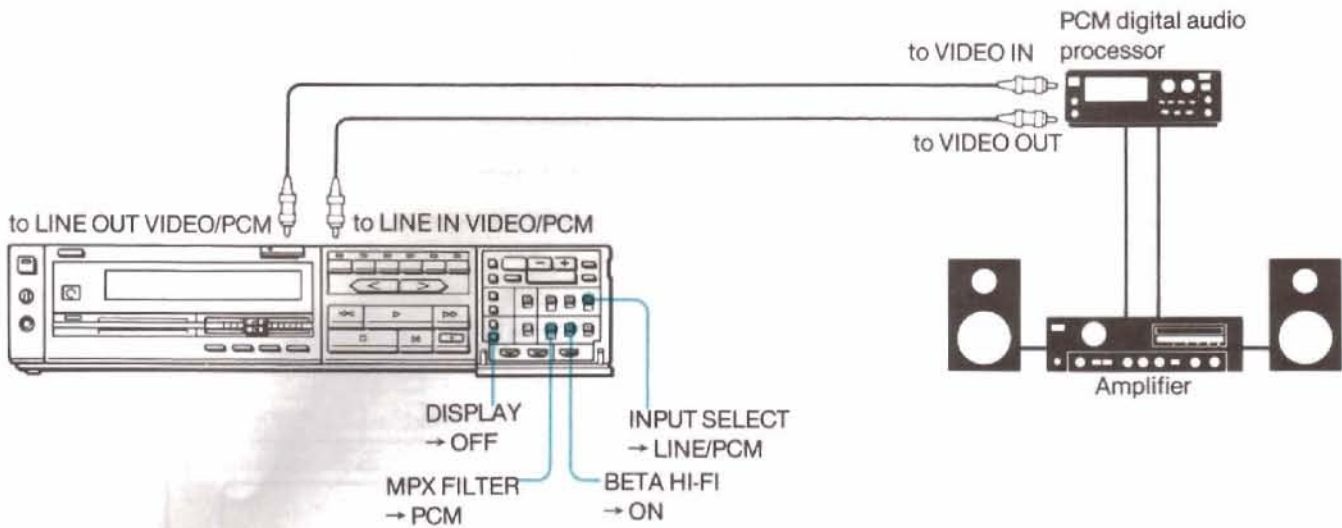
Use an optional program timer to turn the audio system on and off.



The setting of the controls is the same as in "RECORDING FROM YOUR AUDIO SYSTEM" on page 25. Set the recorder's timer and a program timer to the same turn-on and turn-off time. The settings on the recorder's timer are the same as in "TIMER-ACTIVATED RECORDING" on page 19.

PCM RECORDING AND PLAYBACK

Connect a PCM digital audio processor as shown below.



For optimum results, use a video cassette with a model number of L-500 or below (L-250, L-125, etc.) and select tape speed **II**.

For details, refer to the instruction manual furnished with the digital audio processor.

Notes

- If you intend to play back on a VCR with SUPER BETA set to "OFF" or on other non-SuperBeta VCRs, set SUPER BETA to "OFF" when making your PCM recordings. Otherwise, the sound may be muted.
- When MPX FILTER is set to PCM and playback starts, the on-screen display will disappear automatically. The display will not appear by setting MPX FILTER to ON or OFF. To recall it, press DISPLAY.

CAMERA RECORDING

When connecting a Sony color video camera, the use of the Sony HVA-220 AC adaptor is required.

For details on connections, refer to the instruction manual furnished with the AC adaptor.

Note

The camera must conform to American TV (EIA) standards.

TAPE EDITING

To edit a home movie tape, you need two video cassette recorders.

To start recording, set the VCR for playback in the playback mode, then press the record button on the other VCR.

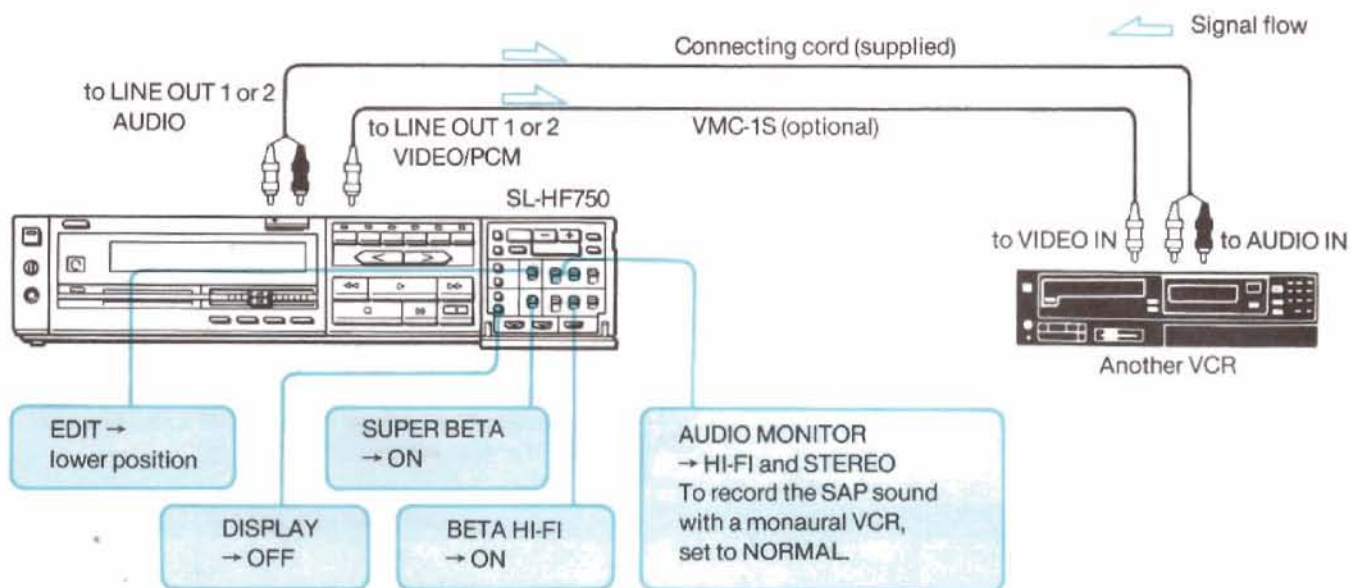
CAUTION

Television programs, films, video tapes and other materials may be copyrighted. Unauthorized duplication of such material may be contrary to the provisions of the copyright laws.

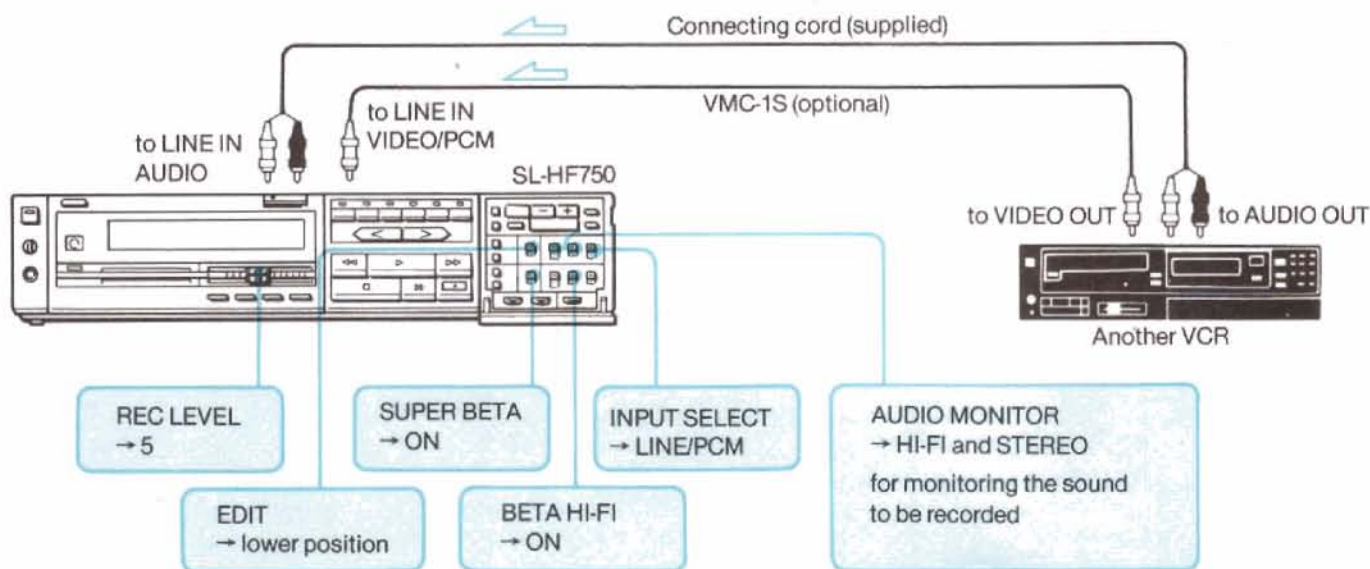
Note

Avoid repetition of editing tapes, as the picture and tone quality will be impaired noticeably for newly edited tapes.

TO EDIT A HOME MOVIE TAPE FROM THE SL-HF750 TO ANOTHER VCR

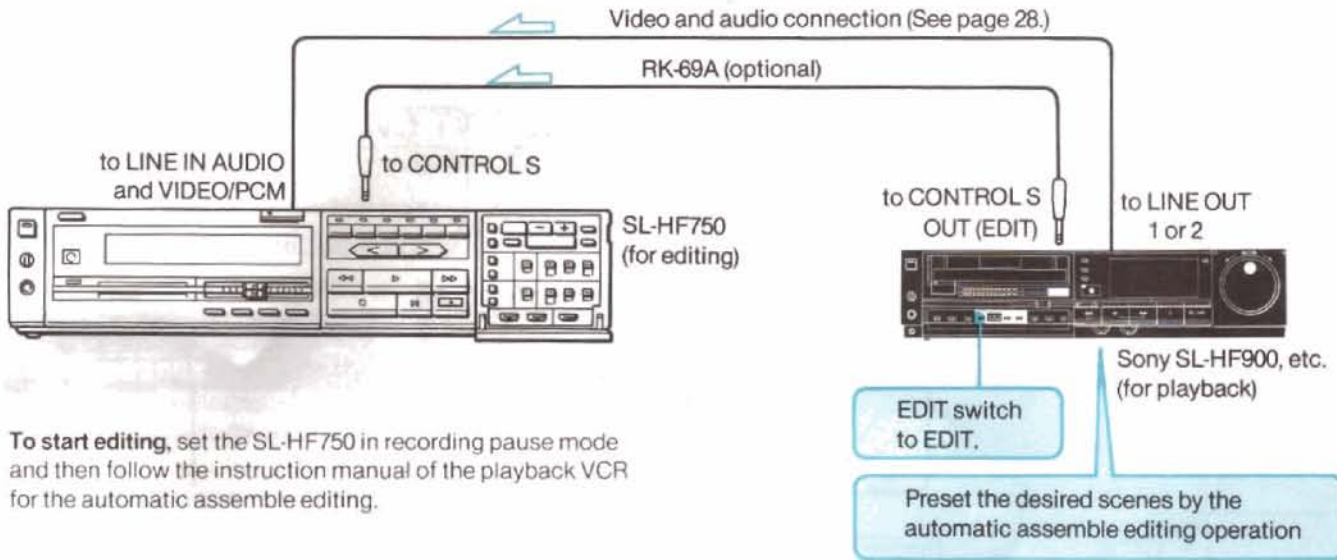


TO EDIT A HOME MOVIE TAPE FROM ANOTHER VCR TO THE SL-HF750



To edit from a VCR equipped with a CONTROL S (EDIT) output

Only the particular scenes preset on the playback VCR will be edited (automatic assemble editing). Recording start/stop on the SL-HF750 can be activated in synchronization with playback start/stop on the playback VCR.

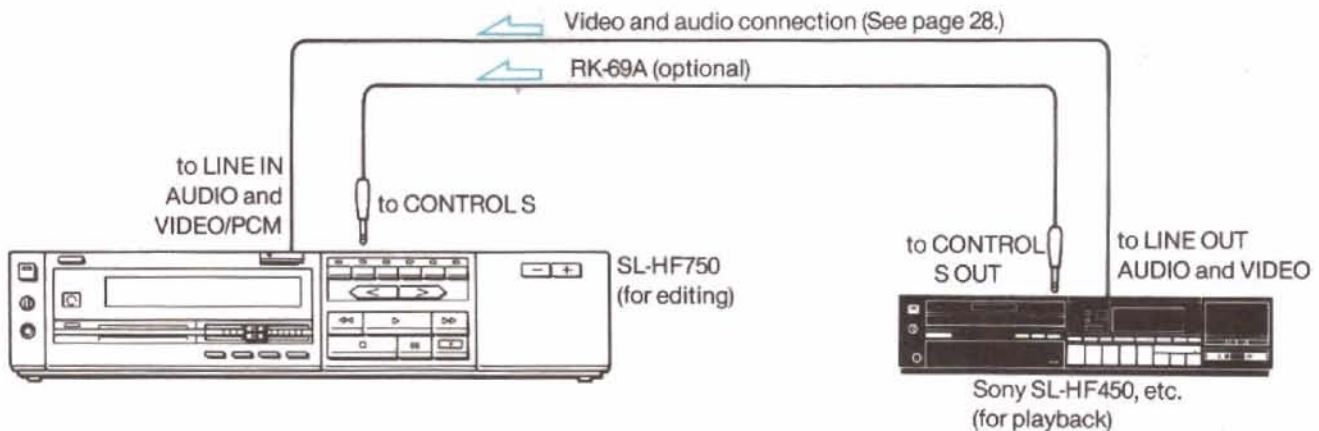


To start editing, set the SL-HF750 in recording pause mode and then follow the instruction manual of the playback VCR for the automatic assemble editing.

To edit from a VCR equipped with a CONTROL S output and synchro edit function

Recording start/stop on the SL-HF750 can be activated in synchronization with playback start/stop on the playback VCR simply by pressing SYNCHRO EDIT on the playback VCR.

For details on the synchro edit operation, refer to the instruction manual of the playback VCR.

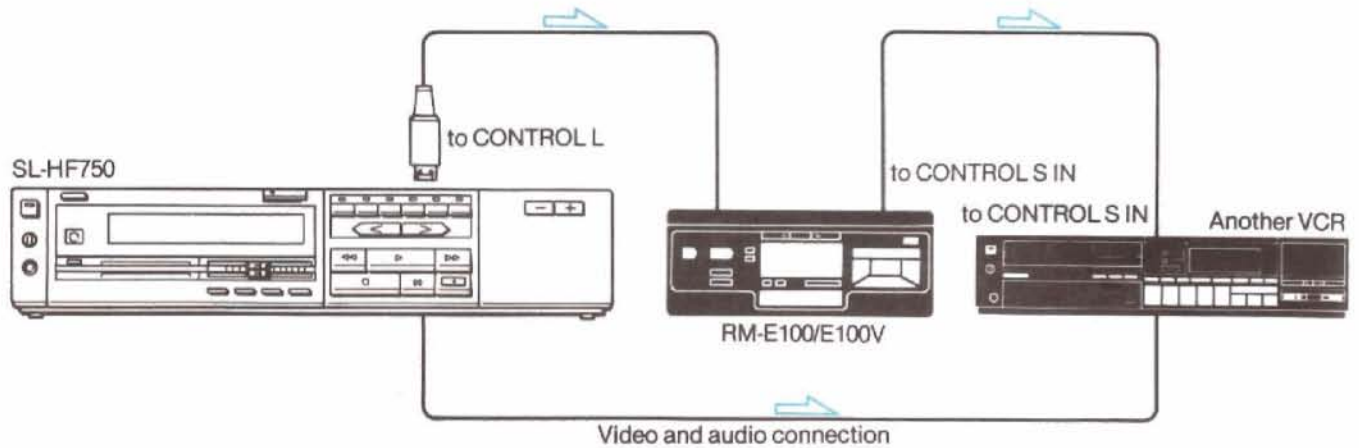


CONNECTING THE RM-E100/E100V VIDEO EDITING CONTROLLER

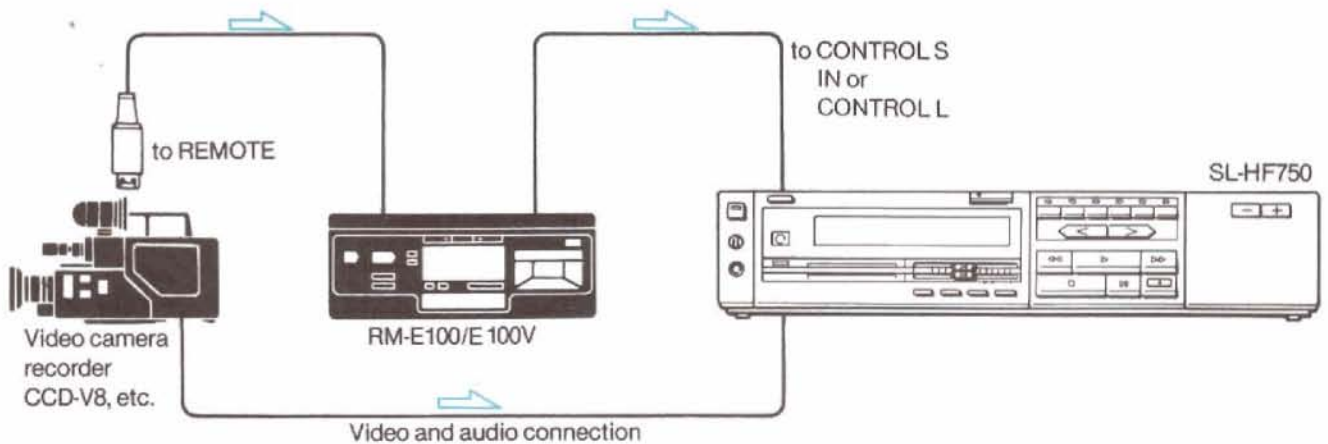
Only the particular scenes (up to 8) of the original tape preset in the controller can be edited automatically in the order preset.

For details on the connection and operation, refer to the instruction manual of the RM-E100/E100V.

Using another VCR equipped with a CONTROL S IN jack



Using an 8 mm video camera recorder equipped with a 5-pin REMOTE connector



Before making connections

- Turn off the TV.
- Do not connect the AC power cord to a wall outlet until all the connections of the video cassette recorder and the TV have been completed.
- Make the connections firmly. Loose connections may cause a distorted picture.

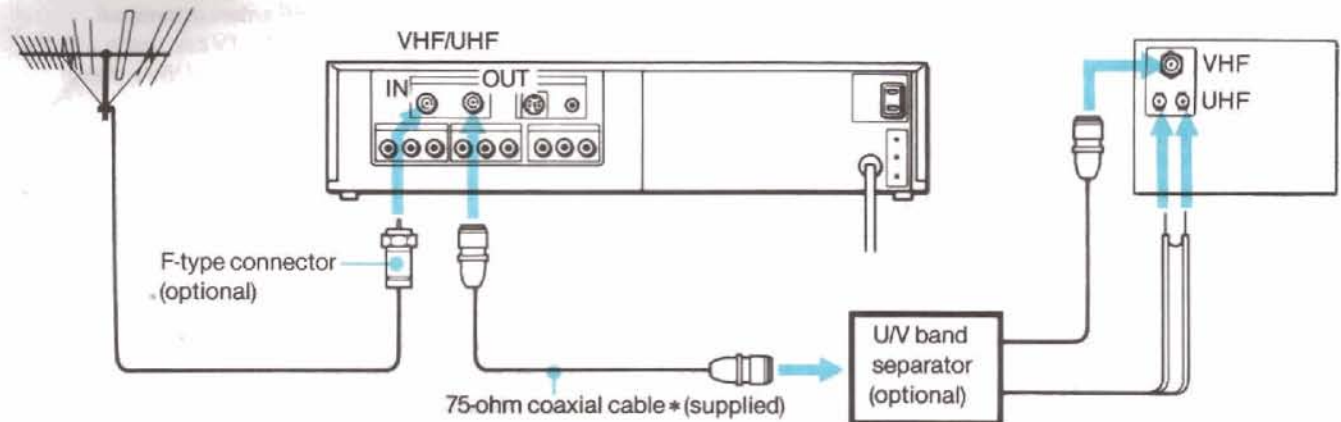
ANTENNA/CABLE AND TV CONNECTION

Disconnect the TV antenna cables from the TV receiver and connect them to the recorder. Then connect the recorder and the TV.

Combination VHF/UHF antenna

Most combination antennas are equipped with a U/V band separator (signal splitter). Take off the separator and connect the cable directly to the recorder.

Use the removed separator to connect the recorder and the TV.



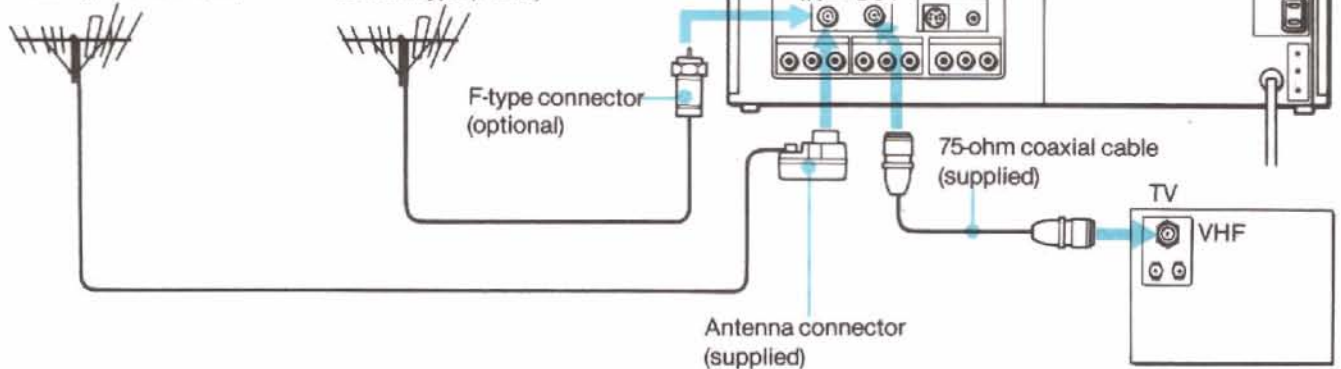
If you need a separator or a complete antenna system, see your Sony dealer or a qualified technician.

* Use an optional RFC-8 extension cable, 8m (25 ft) long, if the supplied 75-ohm coaxial cable is not long enough.

VHF antenna

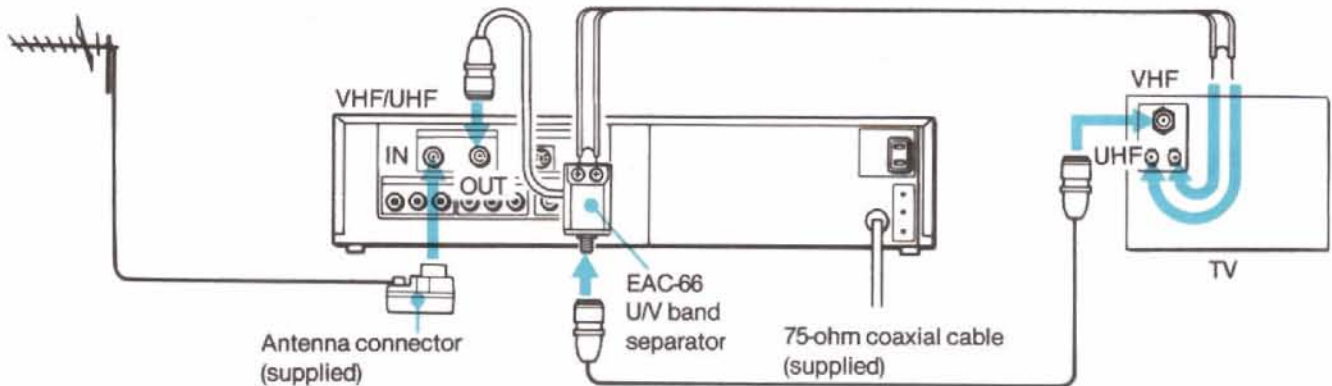
When the cable is a 300-ohm ribbon type lead-in (flat)

When the cable is a 75-ohm coaxial type (round)



UHF antenna

- 1 Attach an optional EAC-66 U/V band separator to the VHF/UHF OUT connector of the recorder.
- 2 Connect the separator to the VHF and UHF antenna terminals of the TV.

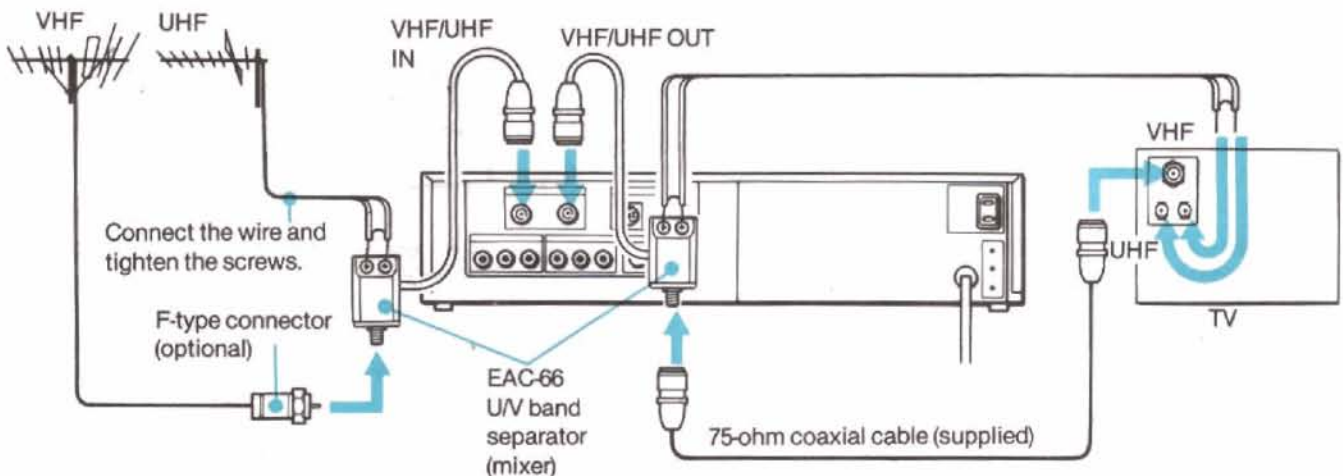


When both VHF and UHF antennas are connected

- 1 Attach an optional EAC-66 U/V band separator (mixer) to the VHF/UHF IN connector of the recorder.
- 2 Connect the antennas to the U/V band separator.
- 3 Attach another optional U/V band separator to the VHF/UHF OUT connector of the recorder.
- 4 Connect it to the VHF and UHF antenna terminals of the TV.

When a TV has a 75-ohm UHF/VHF antenna terminal

Easy connection of the recorder to the TV can be made with the supplied 75-ohm coaxial cable regardless of the types of antenna.



Caution

Connections between the recorder VHF/UHF OUT connector and the antenna terminals of a TV receiver should be made only as shown in these instructions. Failure to do so may result in operation that violates the regulation of the Federal Communications Commission regarding the use and operation of rf devices. Never connect the output of the recorder to an antenna or make simultaneous (parallel) antenna and recorder connection at the antenna terminals of your receiver.

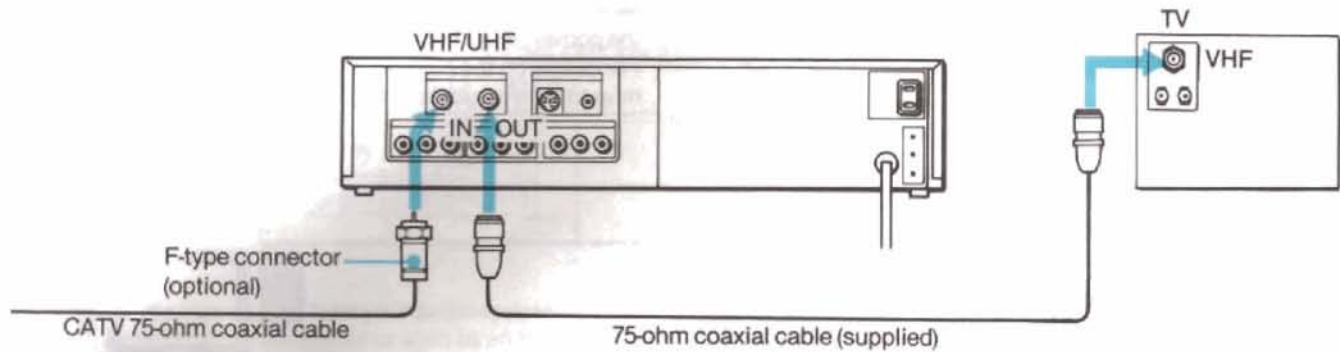
Once the connections explained above have been made, the antenna TV signals, as well as the signal from the recorder, will be fed to the TV and you can view TV programs in the usual way.

Note

Keep the VCR away from the TV, if the display or sound is affected.

CATV cable

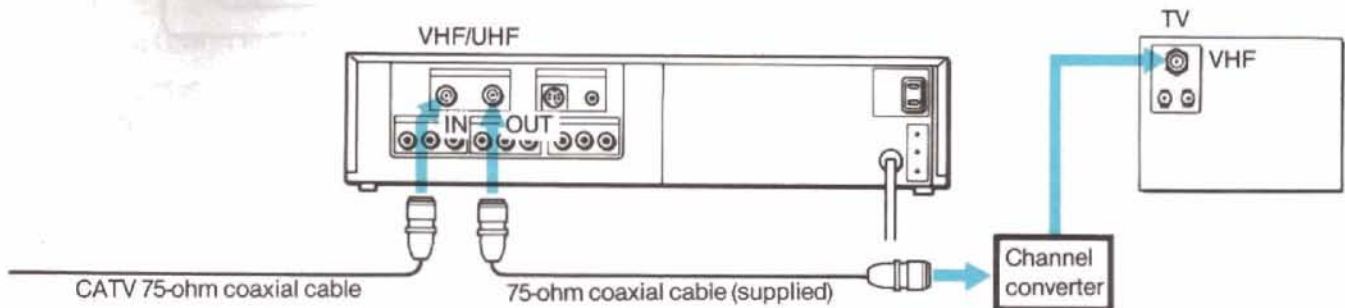
We recommend you to consult your cable company to make sure that the cable is properly connected.



When a TV is not a cable TV compatible type

Connect the cable TV channel converter between the recorder and the TV so that you can watch another

cable TV program while recording one cable TV program. (The TV/VTR button is set to TV.)

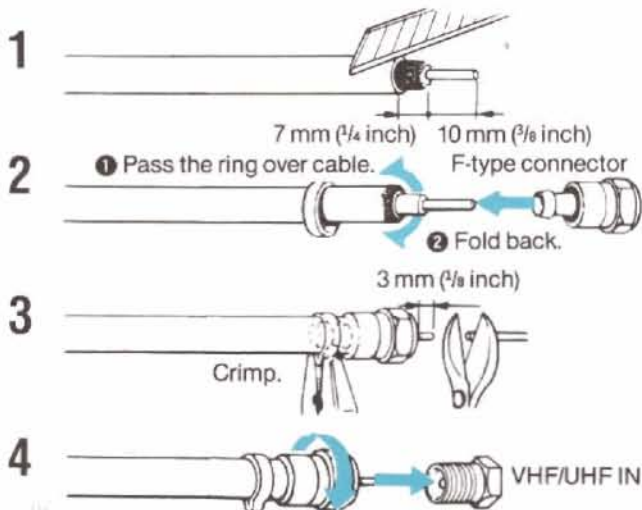


Note to CATV system installer in the U. S. A.

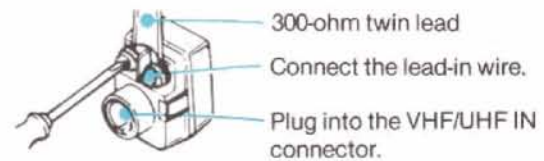
This reminder is provided to call the cable TV system installer's attention to Article 820-22 of the NEC that provides guidelines for proper grounding and, in particular,

specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

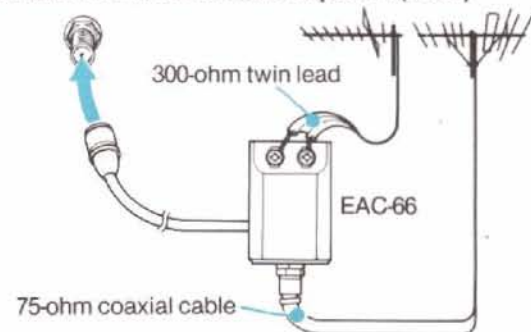
How to attach an F-type connector



How to attach an external antenna connector



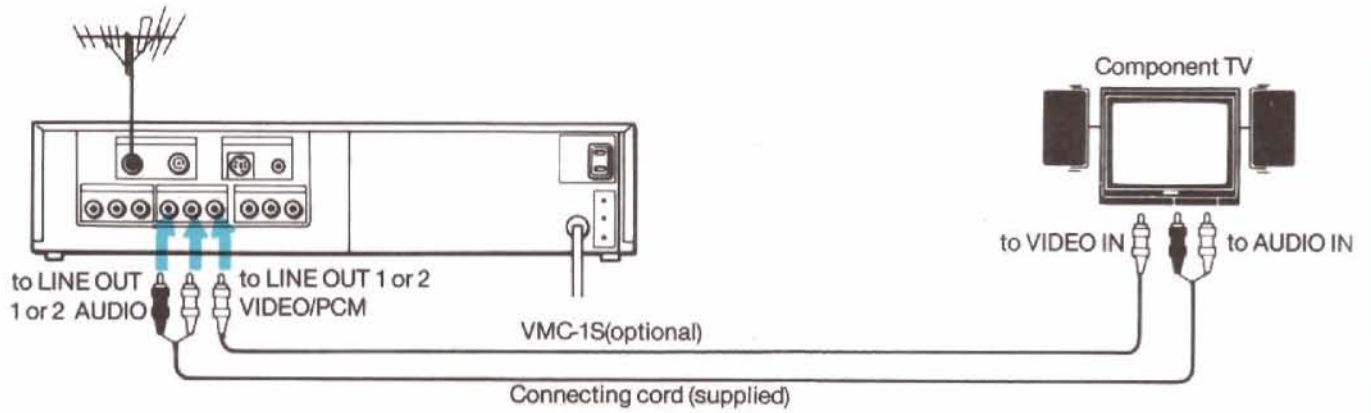
How to attach an EAC-66 U/V band separator (mixer)



CONNECTING A COLOR MONITOR

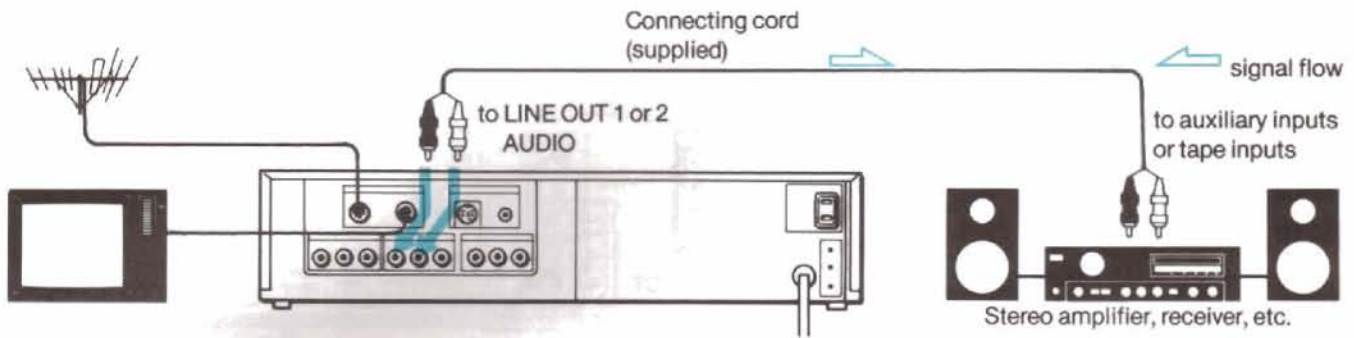
To obtain a better-quality picture, connect a color monitor, such as the Sony Profeel Trinitron Component TV. When a component TV is combined with the speaker system as illustrated, you can enjoy tapes recorded with Beta hi-fi stereo.

To use a component TV tuner together with the monitor, make the same connection as in the case of the recorder and the conventional TV receiver described on pages 31 and 32. For details on the connection of the TV tuner and the monitor, refer to the instruction manual of the TV tuner.



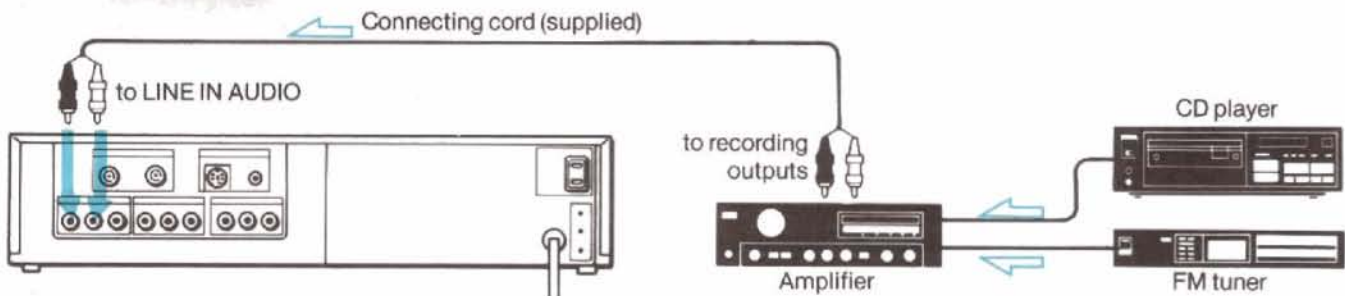
CONNECTION TO AN AUDIO SYSTEM

You can enjoy tapes recorded with Beta hi-fi stereo when the recorder is connected to your audio system.

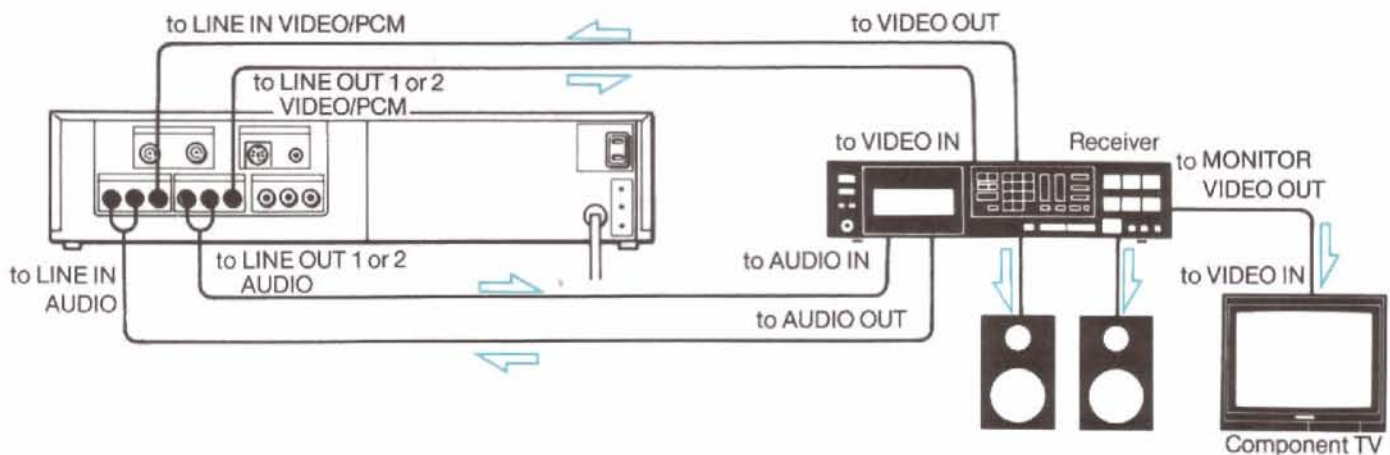


To record audio signals only from your audio system

You can record from an audio source such as an FM tuner, CD player, with the Beta hi-fi system without recording video signals.



Connection to the receiver equipped with VIDEO connectors



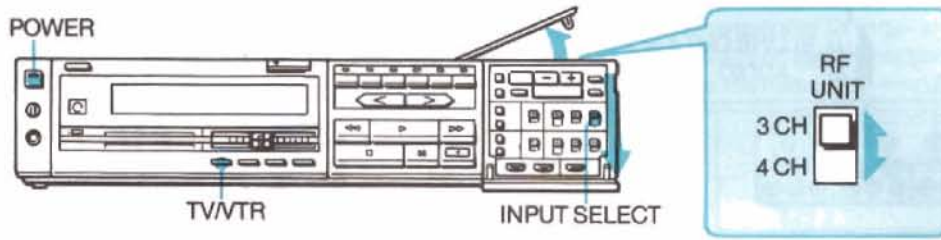
For details, see the instruction manual of the receiver.

Notes

- If the VCR is installed near a tuner or a radio, noise may be heard in AM reception. In this case, keep the VCR away from the tuner or the radio, adjust the AM antenna for minimum noise, or connect an external AM antenna to the tuner.
- Before connecting or disconnecting the power cord of the VCR, be sure to turn off the connected amplifier.

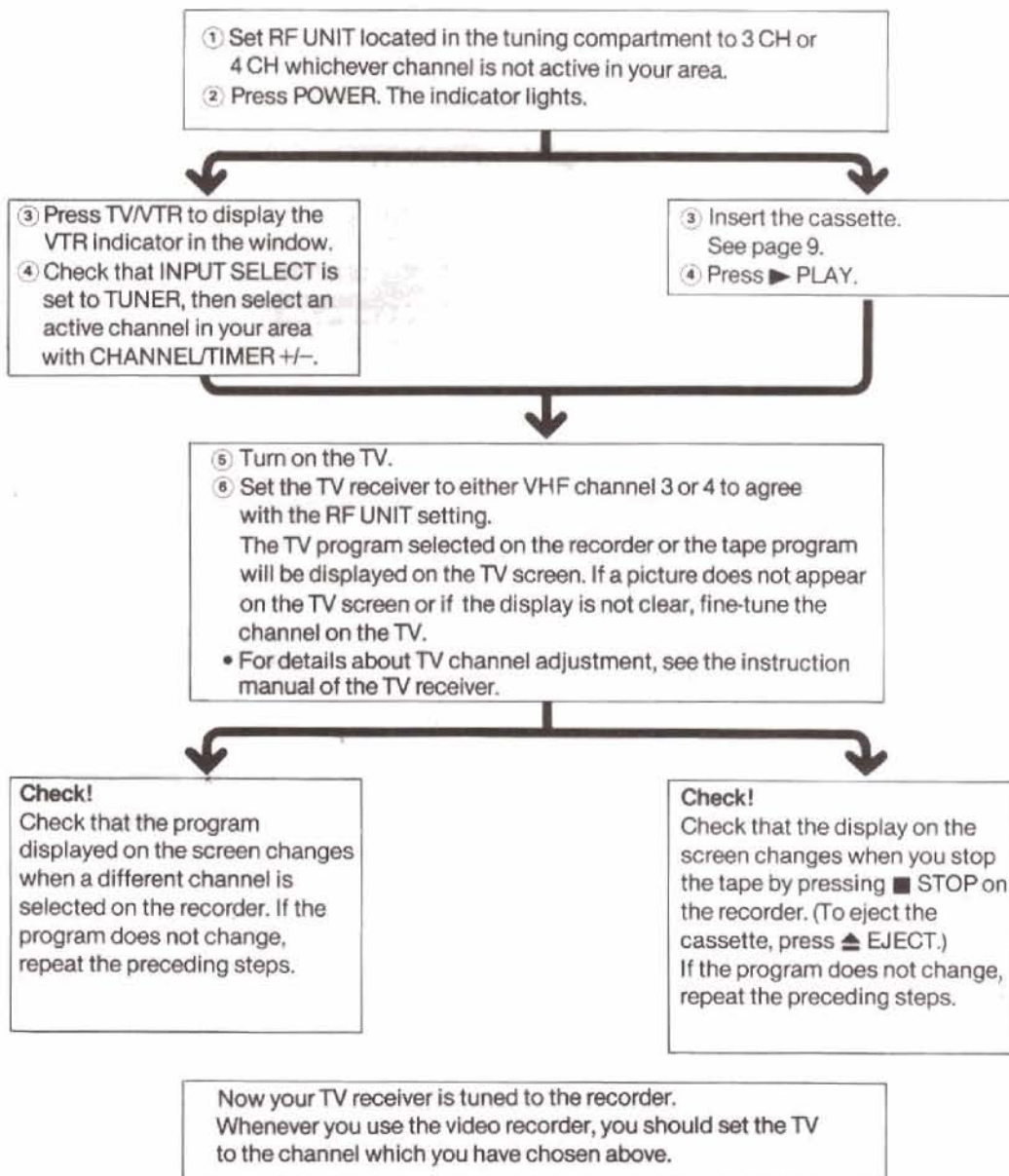
ADJUSTING THE TV

Your TV receiver must be adjusted to receive the signal from your recorder. If you connect a color monitor, it does not need adjusting.



If you do not have a recorded video cassette tape

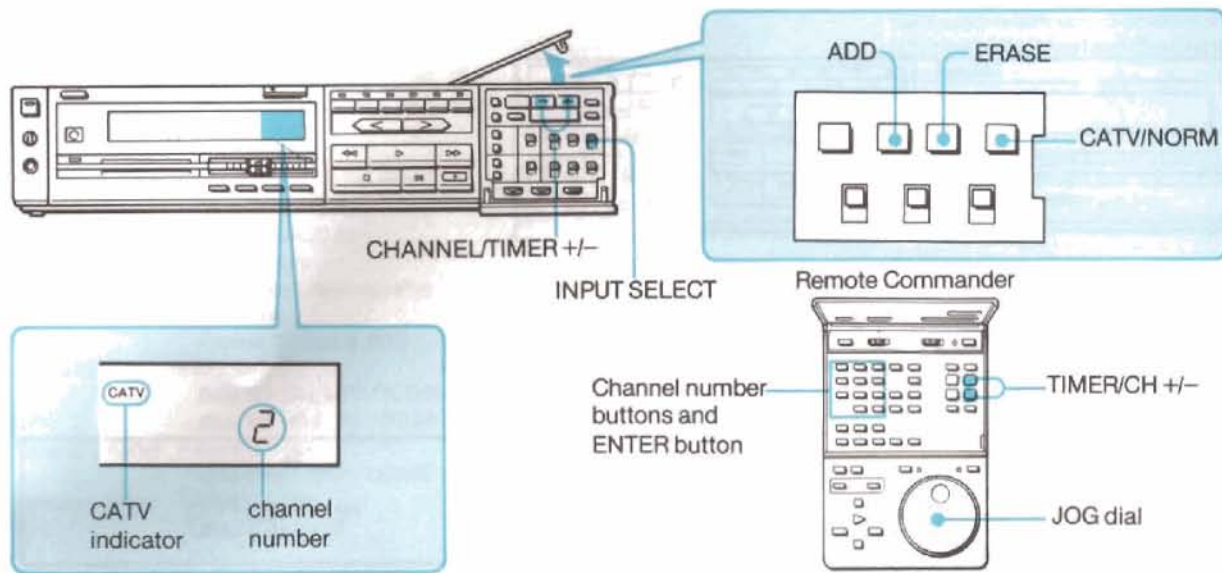
If you have a recorded video cassette tape



PRESETTING THE ACTIVE CHANNELS IN YOUR AREA

Your recorder is capable of receiving VHF channels 2 – 13, UHF channels 14 – 69 and cable TV channels 14 – 36 (A to W), 66 – 94 (W+ 30 to W + 58) and 98 – 125 (A–2 to W+84). See cable TV channel chart on below.

By adding and erasing channels, you can preset the recorder so that only the desired channels will appear in sequence when you select a channel later with CHANNEL/TIMER +/- on the recorder, or TIMER/CH +/- or JOG dial on the Remote Commander.



BEFORE PRESETTING

- Turn on the recorder and the TV. Make sure that the TV is set to the correct channel (channel 3 or 4) for the recorder.
- Set INPUT SELECT on the recorder to TUNER.
- For presetting cable TV channels, press CATV/NORM to display the CATV indicator in the display window. For off-the-air TV channels, press it again to turn off the CATV indicator.

ADDING CHANNELS

- 1 Select the channel to be added with the number buttons and ENTER button on the Commander.
Ex. To select channel 16



- 2 Press ADD.
The “—” indication appears momentarily, indicating that the channel has been added.

Repeat steps 1 and 2 for other channels to be added.

ERASING CHANNELS

- 1 Select the channel to be erased.
- 2 Press ERASE.
The “—” indication appears momentarily, indicating that the channel has been erased.

Repeat steps 1 and 2 for other channels to be erased.

CABLE TV CHANNEL CHART*

Cable TV systems use letters or numbers to designate channels. To tune in a channel, refer to this chart.

CATV channels in numbers	98	99	14	15	16	17	18									
CATV channels in letters	A-2	A-1	A	B	C	D	E									
	19	20	21	22	23	24	25	26	27	28	29	30	31			
	F	G	H	I	J	K	L	M	N	O	P	Q	R			
	32	33	34	35	36	66						94	100	101		
	S	T	U	V	W	W+30							W+58	W+59	W+60	
	102				123	124	125									
	W+61				W+82	W+83	W+84									

Check with your local cable TV company for more complete information on the available channels.

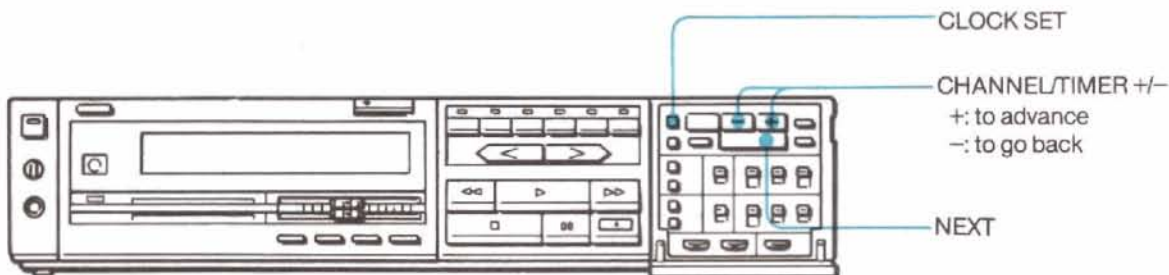
* The designation of the cable TV channels conforms to the EIA/NCTA recommendation.

Note

Pay cable TV systems use scrambled or encoded signals and require special converters (decoders) in addition to the normal cable connection.

CLOCK SETTING

When you connect the AC power cord to a wall outlet, the clock indicates "Su AM 12:00" and it will blink to show that the clock is ready to be set.



Example: to set for Wednesday afternoon at 3:56

1 Press CLOCK SET.



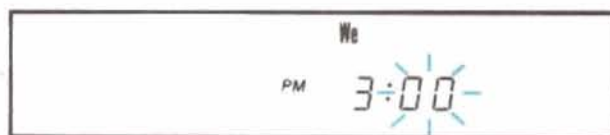
Set the day with the + or - button until "We" appears.

2 Press NEXT.



Set the hour with the + or - button until "PM3:00" appears.
AM 12:00 = midnight PM 12:00 = noon

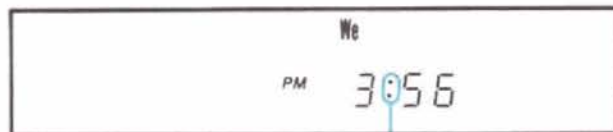
3 Press NEXT.



Set the minute with the + or - button until "PM3:56" appears.

4 Press NEXT.

(For accurate setting, press NEXT at the same time with an announced time signal.)
The clock will now show the current time.



The dots of the colon(:) alternately blink every 30 seconds.

CHANNEL/TIMER +/- buttons

The + and - buttons can be used in two ways:
When you keep a button pressed, the digits will advance continuously until the button is released.




When you press and immediately release a button, the digits will advance by one.



SPECIFICATIONS

System

Video recording system	Rotary two-head helical scanning
Audio recording system	Beta hi-fi system (2 channels) (Recording on the conventional audio track is monaural)
Video signal	EIA standard, NTSC color
Usable cassettes	Cassettes having the mark 
Tape speed	FI , II : 4.0 cm/sec. (FI is only for playback) II : 2.0 cm/sec. III : 1.33 cm/sec.
Maximum recording time	FI : 1 hour 40 min. II : 3 hours 20 min. III : 5 hours (with Sony L-830 cassette)
Fast-forward and rewind time	Approx. 3½ min. (L-500)
Audio frequency response	Beta hi-fi ON, MPX FILTER OFF FI , II , III : 20—20,000 Hz
Wow and flutter	Beta hi-fi ON Less than 0.005% WRMS
Dynamic range	Beta hi-fi ON More than 80 dB

Tuner section

Channel coverage	VHF channels 2 to 13 UHF channels 14 to 69 Cable TV channels 14 to 36, 66 to 94, 98 to 125
VHF output signal	Channel 3 or 4 (selected) 75 ohms, unbalanced
Antenna	75-ohm antenna terminal for VHF and UHF

Input and outputs

Video input	Phono jack (1) 1 V p-p, 75 ohms, unbalanced, sync negative
Video outputs	Phono jack (2) 1 V p-p, 75 ohms, unbalanced, sync negative
Audio inputs	Phono jack (2) -10 dBs (0 dBs = 0.775 V rms), more than 47 k ohms
Audio outputs	Phono jack (4) -10 dBs (at load impedance 47 k ohms) Output impedance less than 10 k ohms
CONTROL S input	Minijack (1)
CONTROL L input/output	5-pin connector (1)
HEADPHONES jack	Stereo phone jack (1) -26 dBs, 8 ohms

Timer section

Clock	Synchronized with the power frequency
Time indication	12-hour cycle
Timer setting	Only for recording 6 programs 3 weeks at max.
Power back up	Self-charging battery incorporated Back-up duration: up to 3 seconds at one time (after the battery has been charged at least 40 hours)

General

Power requirements	120 V ac ± 10%, 60 Hz ± 0.5%
Power consumption	49 W
AC outlet	Unswitched max. 400 W
Operating temperature	5°C to 40°C (41°F to 104°F)
Storage temperature	-20°C to +60°C (-4°F to +140°F)
Dimensions	Approx. 430 × 95 × 420 mm (w/h/d) (17 × 3¾ × 16½ inches) incl. projecting parts and controls
Weight	Approx. 11.5 kg (25 lb 5 oz) net

Remote Commander RMT-143

Remote control system	Infrared control
Command mode	VTR-1 or VTR-2 selectable
Power requirements	4.5 V dc, 3 size AA batteries (IEC designation R6)
Dimensions	Approx. 105 × 40 × 160 mm (w/h/d) (4¼ × 1½ × 6¼ inches) incl. projecting parts and controls
Weight	Approx. 220 g (8 oz) not incl. batteries


Accessories supplied

75-ohm coaxial cable with F-type connectors	2
Antenna connector	1
Connecting cord	1
Remote Commander RMT-143 with three size AA batteries	1

Design and specifications subject to change without notice.

TROUBLE CHECKS

If any difficulty should arise during operation, first check the power cord connection, then go through the following list. Should the difficulty persist, unplug the unit and contact your Sony dealer or local authorized Sony service facility.

Symptom		Possible causes and corrections
POWER	POWER switch does not function.	<ul style="list-style-type: none"> The recorder is in the timer standby mode. Press TIMER REC.
	The clock has stopped at "Su AM 12:00".	<ul style="list-style-type: none"> There has been a power interruption. Reset the clock time and timer settings.
CLOCK AND TIMER	Timer setting cannot be made.	<ul style="list-style-type: none"> The clock is not set. The timer cannot be set during recording.
	TV program is not clearly displayed on the TV screen.	<ul style="list-style-type: none"> The channel for video recorder is not correctly tuned on the TV receiver. The TV signal is weak. Adjust the direction of the antenna. The AC power cord of the recorder is disconnected.
TV RECEPTION	Stereo programs are heard in monaural.	<ul style="list-style-type: none"> AUTO STEREO is set to OFF. AUDIO MONITOR (STEREO/L/R) is set to L or R.
	No picture on the TV screen during recording or playback	<ul style="list-style-type: none"> The TV's channel is not set to that preset for the video recorder.
RECORDING AND PLAYBACK	Picture being recorded cannot be monitored on the TV screen.	<ul style="list-style-type: none"> Press TV/VTR so that the VTR indicator appears in the window.
	Noisy picture	<ul style="list-style-type: none"> The video heads may be contaminated. Clean the heads using the Sony L-25CL video head cleaning cassette. For details on cleaning, refer to the instructions furnished with the cleaning cassette. If the L-25CL cleaning cassette is not available in your area, have the heads cleaned at the nearest Sony service facility.
	Distorted or noisy sound	<ul style="list-style-type: none"> Recording level was not properly adjusted.
	Sound drop-outs of a Beta hi-fi recorded tape	<ul style="list-style-type: none"> The tape is defective. Use a new video cassette tape.
	Timer recording cannot be made correctly.	<ul style="list-style-type: none"> The clock is not set correctly. There has been a power interruption. The cassette inserted has had the tab removed or no cassette has been inserted. The tape is at its end. Two or more timer settings overlap.
	SAP sound cannot be recorded.	<ul style="list-style-type: none"> Set NORMAL AUDIO to SAP. To listen to the SAP, set AUDIO MONITOR (HI-FI/NORMAL) to NORMAL.
	No sound was recorded in the conventional audio track.	<ul style="list-style-type: none"> NORMAL AUDIO was set to SAP and there was no SAP broadcast.
	SAP sound cannot be played back.	<ul style="list-style-type: none"> Set AUDIO MONITOR (HI-FI/NORMAL) to NORMAL.
	No sound is heard during playback.	<ul style="list-style-type: none"> A tape on which no sound is recorded on the conventional audio track is being played back with AUDIO MONITOR (HI-FI/NORMAL) set to NORMAL. Set it to HI-FI.
	Noise band in the slow motion picture, stop-action advance picture, or freeze picture.	<ul style="list-style-type: none"> Adjust SLOW TRACKING to move it.
	The recorder cannot be remotely controlled.	<ul style="list-style-type: none"> The remote control TV/VTR selector on the Commander is set to TV. The command mode selector on the Remote Commander is not set at the same position as that on the VCR. The batteries are exhausted.
	OTHERS	The tape counter does not operate even if the tape moves.
Cassette cannot be inserted.		<ul style="list-style-type: none"> The cassette being inserted is reversed. Press  EJECT to raise the cassette holder.
The cassette cannot be ejected.		<ul style="list-style-type: none"> Recording is being done.
On-screen display does not appear.		<ul style="list-style-type: none"> MPX FILTER is set to PCM. DISPLAY is set to OFF mode. Press it again.